WEBVTT

NOTE duration:"01:15:39" NOTE recognizability:0.869

NOTE language:en-us

NOTE Confidence: 0.943099098888889

 $00:00:00.000 \longrightarrow 00:00:01.254$  Frontiers and staff.

NOTE Confidence: 0.943099098888889

 $00:00:01.254 \longrightarrow 00:00:03.344$  With the mission of empowering

NOTE Confidence: 0.943099098888889

 $00:00:03.344 \longrightarrow 00:00:05.343$  individuals to take control of

NOTE Confidence: 0.943099098888889

 $00:00:05.343 \longrightarrow 00:00:07.163$  their own health and Wellness,

NOTE Confidence: 0.943099098888889

 $00:00:07.170 \longrightarrow 00:00:09.090$  the program features free interactive

NOTE Confidence: 0.943099098888889

 $00{:}00{:}09.090 \dashrightarrow 00{:}00{:}11.392$  workshops which are now in this

NOTE Confidence: 0.943099098888889

 $00{:}00{:}11.392 \dashrightarrow 00{:}00{:}13.618$  format unzoom a few times per year

NOTE Confidence: 0.943099098888889

 $00:00:13.618 \longrightarrow 00:00:15.235$  that reaffirm the importance of

NOTE Confidence: 0.943099098888889

 $00:00:15.235 \longrightarrow 00:00:17.377$  caring for the person as a whole.

NOTE Confidence: 0.943099098888889

 $00:00:17.380 \longrightarrow 00:00:19.336$  Body, mind and spirit.

NOTE Confidence: 0.943099098888889

 $00{:}00{:}19.336 \dashrightarrow 00{:}00{:}21.292$  Designed to complement traditional

NOTE Confidence: 0.943099098888889

00:00:21.292 --> 00:00:23.250 lectures and health talks,

NOTE Confidence: 0.943099098888889

 $00:00:23.250 \longrightarrow 00:00:25.350$  each workshop focuses on

 $00:00:25.350 \longrightarrow 00:00:27.450$  some component of Wellness.

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 $00{:}00{:}27.450 \dashrightarrow 00{:}00{:}29.542$  The committee who plans and

NOTE Confidence: 0.943099098888889

 $00:00:29.542 \longrightarrow 00:00:30.826$  conducts these workshops

NOTE Confidence: 0.943099098888889

 $00:00:30.826 \longrightarrow 00:00:32.870$  consists of Geesala Boxleitner.

NOTE Confidence: 0.943099098888889

00:00:32.870 --> 00:00:36.090 Bud well sell Denise Romano.

NOTE Confidence: 0.943099098888889

 $00:00:36.090 \longrightarrow 00:00:37.776$  Danielle sagnella.

NOTE Confidence: 0.943099098888889

 $00:00:37.776 \longrightarrow 00:00:41.148$  Beverly Block and myself.

NOTE Confidence: 0.943099098888889

00:00:41.150 --> 00:00:42.935 I also would like to recognize

NOTE Confidence: 0.943099098888889

 $00:00:42.935 \longrightarrow 00:00:44.945$  and thank Lisa Adams from our

NOTE Confidence: 0.943099098888889

00:00:44.945 --> 00:00:46.486 audiovisual department who always

NOTE Confidence: 0.943099098888889

 $00{:}00{:}46.486 \dashrightarrow 00{:}00{:}47.890$  helps us immensely with the

NOTE Confidence: 0.943099098888889

00:00:47.890 --> 00:00:49.498 technology behind the scenes,

NOTE Confidence: 0.943099098888889

 $00:00:49.500 \longrightarrow 00:00:50.550$  so that this can be possible.

NOTE Confidence: 0.943099098888889

 $00:00:50.550 \longrightarrow 00:00:52.930$  Please let us know after the program

NOTE Confidence: 0.943099098888889

 $00:00:52.930 \longrightarrow 00:00:55.303$  if you have any suggestions for

NOTE Confidence: 0.943099098888889

 $00{:}00{:}55.303 \dashrightarrow 00{:}00{:}57.328$  future topics and remember to

 $00:00:57.328 \longrightarrow 00:00:59.215$  complete the evaluation at the end

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 $00:00:59.215 \longrightarrow 00:01:01.690$  as we value all of your feedback.

NOTE Confidence: 0.943099098888889

00:01:01.690 --> 00:01:05.170 So last little bit of housekeeping once

NOTE Confidence: 0.943099098888889

00:01:05.170 --> 00:01:06.970 Joan is done with her presentation,

NOTE Confidence: 0.943099098888889

 $00:01:06.970 \longrightarrow 00:01:09.298$  we will have time for interactive

NOTE Confidence: 0.943099098888889

 $00:01:09.298 \longrightarrow 00:01:10.462$  questions and answers.

NOTE Confidence: 0.943099098888889

00:01:10.470 --> 00:01:13.228 Please use the Q&A feature in Zoom.

NOTE Confidence: 0.943099098888889

 $00:01:13.230 \longrightarrow 00:01:15.533$  That is how we will collect those

NOTE Confidence: 0.943099098888889

 $00:01:15.533 \longrightarrow 00:01:17.474$  questions and then be able to

NOTE Confidence: 0.943099098888889

 $00:01:17.474 \longrightarrow 00:01:19.244$  talk about them during the Q&A.

NOTE Confidence: 0.943099098888889

 $00:01:19.250 \longrightarrow 00:01:21.116$  Will make every attempt to get

NOTE Confidence: 0.943099098888889

 $00:01:21.116 \longrightarrow 00:01:23.130$  to all of your questions.

NOTE Confidence: 0.943099098888889

 $00:01:23.130 \dashrightarrow 00:01:25.620$  OK, I'm going to introduce Joan Palmer,

NOTE Confidence: 0.943099098888889

00:01:25.620 --> 00:01:27.918 our guest for today, and speaker.

NOTE Confidence: 0.943099098888889

 $00:01:27.920 \longrightarrow 00:01:29.640$  Joan is the founder,

00:01:29.640 --> 00:01:31.956 director and an instructor at the

NOTE Confidence: 0.943099098888889

 $00{:}01{:}31.956 \dashrightarrow 00{:}01{:}33.768$  Institute of Sustainable Nutrition.

NOTE Confidence: 0.943099098888889

00:01:33.770 --> 00:01:36.394 She has a Masters degree in Human Nutrition,

NOTE Confidence: 0.943099098888889

 $00:01:36.400 \longrightarrow 00:01:37.868$  a Bachelors in education,

NOTE Confidence: 0.943099098888889

 $00:01:37.868 \longrightarrow 00:01:41.090$  and is certified as a family and community.

NOTE Confidence: 0.943099098888889

 $00{:}01{:}41.090 \dashrightarrow 00{:}01{:}43.754$  Herbalist Joan teaches the art and

NOTE Confidence: 0.943099098888889

 $00:01:43.754 \longrightarrow 00:01:47.480$  science of eating at the Graduate Institute.

NOTE Confidence: 0.943099098888889

 $00:01:47.480 \longrightarrow 00:01:50.448$  As well as food as medicine at

NOTE Confidence: 0.943099098888889

00:01:50.448 --> 00:01:52.971 Quinnipiac University, she raises plants,

NOTE Confidence: 0.943099098888889

 $00:01:52.971 \longrightarrow 00:01:55.304$  chickens, bees and boys.

NOTE Confidence: 0.943099098888889

 $00:01:55.304 \longrightarrow 00:01:57.899$  Love that in the beautiful hills

NOTE Confidence: 0.943099098888889

00:01:57.900 --> 00:01:58.869 of West Granby,

NOTE Confidence: 0.943099098888889

 $00{:}01{:}58.869 \rightarrow 00{:}02{:}01.470$  CT and we're grateful to have her here

NOTE Confidence: 0.926741875

 $00:02:01.680 \longrightarrow 00:02:03.548$  with us, from Granby

NOTE Confidence: 0.914818476666667

 $00:02:04.210 \longrightarrow 00:02:05.668$  for today's program. So with that,

NOTE Confidence: 0.914818476666667

 $00:02:05.670 \longrightarrow 00:02:06.540$  I'll turn it over to you.

 $00:02:06.540 \longrightarrow 00:02:07.525$  Joan, thank you for being

NOTE Confidence: 0.914818476666667

 $00{:}02{:}07.525 \dashrightarrow 00{:}02{:}08.510$  here and sharing your wisdom

NOTE Confidence: 0.873548241666667

 $00:02:08.520 \longrightarrow 00:02:11.820$  with us. Oh, thank you Nicole.

NOTE Confidence: 0.873548241666667

 $00:02:11.820 \longrightarrow 00:02:15.468$  I do have to say that those chickens.

NOTE Confidence: 0.873548241666667

 $00:02:15.470 \longrightarrow 00:02:19.180$  Actually were all eaten by a bobcat,

NOTE Confidence: 0.873548241666667

 $00:02:19.180 \longrightarrow 00:02:20.909$  so I have to take that off.

NOTE Confidence: 0.873548241666667

 $00:02:20.910 \longrightarrow 00:02:23.440$  The bio for this year,

NOTE Confidence: 0.873548241666667

 $00:02:23.440 \longrightarrow 00:02:27.580$  which is rather sad, but uhm,

NOTE Confidence: 0.873548241666667

 $00{:}02{:}27.580 \dashrightarrow 00{:}02{:}30.880$  so thank you everyone for joining

NOTE Confidence: 0.873548241666667

 $00:02:30.986 \longrightarrow 00:02:33.460$  us to talk about the microbiome.

NOTE Confidence: 0.873548241666667 00:02:33.460 --> 00:02:38.128 It is really a.

NOTE Confidence: 0.873548241666667

 $00:02:38.130 \longrightarrow 00:02:40.419$  Kind of a new area of research,

NOTE Confidence: 0.873548241666667

00:02:40.420 --> 00:02:44.244 or it's it's a burgeoning area of research?

NOTE Confidence: 0.873548241666667 00:02:44.250 --> 00:02:46.950 There are. NOTE Confidence: 0.873548241666667

 $00:02:46.950 \longrightarrow 00:02:50.422$  A lot of studies out there that are

 $00:02:50.422 \longrightarrow 00:02:54.175$  exploring the the different aspects of the

NOTE Confidence: 0.873548241666667

 $00:02:54.175 \longrightarrow 00:02:57.723$  microbiome and how that influences us you.

NOTE Confidence: 0.873548241666667

 $00:02:57.723 \longrightarrow 00:03:00.621$  You need to remember that we

NOTE Confidence: 0.873548241666667

 $00:03:00.621 \longrightarrow 00:03:03.590$  have evolved with these bacteria.

NOTE Confidence: 0.873548241666667 00:03:03.590 --> 00:03:04.604 We are. NOTE Confidence: 0.873548241666667

 $00:03:04.604 \longrightarrow 00:03:07.646$  We are more of the bacteria

NOTE Confidence: 0.873548241666667

 $00:03:07.646 \longrightarrow 00:03:09.959$  than we are of us,

NOTE Confidence: 0.873548241666667

 $00:03:09.960 \longrightarrow 00:03:11.934$  and I'll explain that as we go,

NOTE Confidence: 0.873548241666667

 $00:03:11.940 \longrightarrow 00:03:15.940$  and so they it really is an important.

NOTE Confidence: 0.873548241666667

00:03:15.940 --> 00:03:18.957 Aspect of our health and an important

NOTE Confidence: 0.873548241666667

 $00{:}03{:}18.957 \dashrightarrow 00{:}03{:}22.346$  thing for us to to have an understanding

NOTE Confidence: 0.873548241666667

 $00:03:22.346 \longrightarrow 00:03:25.100$  and a knowledge base to nurture

NOTE Confidence: 0.873548241666667

 $00:03:25.188 \longrightarrow 00:03:28.188$  these microbes for both our physical

NOTE Confidence: 0.873548241666667

 $00:03:28.188 \longrightarrow 00:03:30.850$  health and our emotional health.

NOTE Confidence: 0.873548241666667

 $00:03:30.850 \longrightarrow 00:03:33.130$  So I am going to share my screen

NOTE Confidence: 0.873548241666667

 $00{:}03{:}33.130 \dashrightarrow 00{:}03{:}35.822$  with you and we're going to do a

 $00{:}03{:}35.822 \dashrightarrow 00{:}03{:}37.649$  Power Point and then we're going

NOTE Confidence: 0.873548241666667

 $00:03:37.649 \longrightarrow 00:03:39.989$  to talk about some of these

NOTE Confidence: 0.873548241666667

 $00:03:39.989 \longrightarrow 00:03:43.065$  delicious foods behind me.

NOTE Confidence: 0.873548241666667

 $00:03:43.065 \longrightarrow 00:03:44.970$  So.

NOTE Confidence: 0.873548241666667

 $00:03:44.970 \longrightarrow 00:03:47.680$  Hi.

NOTE Confidence: 0.873548241666667 00:03:47.680 --> 00:03:48.928 I'm going to.

NOTE Confidence: 0.56966956

00:03:57.810 --> 00:04:05.720 OK, uhm. So. I, I think this this

NOTE Confidence: 0.56966956

00:04:05.720 --> 00:04:09.400 saying is so true. You can pay the

NOTE Confidence: 0.56966956

 $00:04:09.400 \longrightarrow 00:04:10.840$  farmer now or the doctor later.

NOTE Confidence: 0.56966956

 $00:04:10.840 \longrightarrow 00:04:14.935$  Real food matters that we are discovering

NOTE Confidence: 0.56966956

 $00:04:14.935 \longrightarrow 00:04:17.935$  the health benefits of real food

NOTE Confidence: 0.56966956

 $00:04:17.935 \longrightarrow 00:04:21.122$  and the the importance of of that

NOTE Confidence: 0.56966956

 $00{:}04{:}21.122 \dashrightarrow 00{:}04{:}26.610$  in part of our health routine so.

NOTE Confidence: 0.56966956

00:04:26.610 --> 00:04:30.012 Anyway, so thanks, we're going to talk

NOTE Confidence: 0.56966956

 $00:04:30.012 \longrightarrow 00:04:34.390$  about today are what is the human microbiome?

 $00:04:34.390 \longrightarrow 00:04:37.015$  What are the benefits of

NOTE Confidence: 0.56966956

 $00:04:37.015 \longrightarrow 00:04:38.590$  a healthy microbiome?

NOTE Confidence: 0.56966956

 $00:04:38.590 \longrightarrow 00:04:41.182$  How is that acquired?

NOTE Confidence: 0.56966956

00:04:41.182 --> 00:04:43.774 And then disorders associated,

NOTE Confidence: 0.56966956

 $00:04:43.780 \longrightarrow 00:04:46.548$  not necessarily causing associated

NOTE Confidence: 0.56966956

 $00:04:46.548 \longrightarrow 00:04:49.316$  with an unhealthy microbiome.

NOTE Confidence: 0.56966956

 $00{:}04{:}49.320 \dashrightarrow 00{:}04{:}52.070$  What contributes to an unhealthy

NOTE Confidence: 0.56966956

 $00:04:52.070 \longrightarrow 00:04:55.140$  microbiome and then what contributes to?

NOTE Confidence: 0.56966956

 $00{:}04{:}55.140 \dashrightarrow 00{:}04{:}57.690$  How do we support and grow

NOTE Confidence: 0.56966956

 $00:04:57.690 \longrightarrow 00:04:58.965$  a healthy microbiome?

NOTE Confidence: 0.56966956

 $00:04:58.970 \longrightarrow 00:05:01.805$  And then we have to take a few minutes

NOTE Confidence: 0.56966956

 $00:05:01.805 \longrightarrow 00:05:04.278$  to talk about fermented foods.

NOTE Confidence: 0.56966956

 $00:05:04.280 \longrightarrow 00:05:07.840$  So I am going to.

NOTE Confidence: 0.56966956

 $00:05:07.840 \longrightarrow 00:05:08.778$  Minimize that,

NOTE Confidence: 0.56966956

 $00:05:08.778 \longrightarrow 00:05:12.061$  so the microbiome is a unique make

NOTE Confidence: 0.56966956

 $00:05:12.061 \longrightarrow 00:05:14.709$  up of colonies of microorganisms

 $00:05:14.709 \longrightarrow 00:05:17.314$  that live on and in is.

NOTE Confidence: 0.56966956

 $00{:}05{:}17.320 \dashrightarrow 00{:}05{:}22.654$  In fact, we each have our unique.

NOTE Confidence: 0.56966956

00:05:22.660 --> 00:05:25.800 Colony of microorganisms that is

NOTE Confidence: 0.56966956

 $00:05:25.800 \longrightarrow 00:05:28.940$  as unique as your fingerprint.

NOTE Confidence: 0.56966956

 $00{:}05{:}28.940 \dashrightarrow 00{:}05{:}32.108$  So if we were able to do a snapshot

NOTE Confidence: 0.56966956

00:05:32.108 --> 00:05:34.196 of each person's microbiome,

NOTE Confidence: 0.56966956

 $00:05:34.196 \longrightarrow 00:05:36.728$  each one would be.

NOTE Confidence: 0.56966956

 $00{:}05{:}36.730 \dashrightarrow 00{:}05{:}41.836$  Uniquely yours and not anyone elses.

NOTE Confidence: 0.56966956

 $00:05:41.840 \longrightarrow 00:05:45.824$  So we we acquire these throughout our lives,

NOTE Confidence: 0.56966956

 $00:05:45.830 \longrightarrow 00:05:48.570$  from from birth to death,

NOTE Confidence: 0.56966956

 $00:05:48.570 \longrightarrow 00:05:52.638$  we are acquiring our specific microbiome,

NOTE Confidence: 0.56966956

 $00:05:52.640 \longrightarrow 00:05:55.132$  and there are lots of things we

NOTE Confidence: 0.56966956

 $00{:}05{:}55.132 \dashrightarrow 00{:}05{:}57.639$  do that enhance and and cause

NOTE Confidence: 0.56966956

 $00{:}05{:}57.639 \dashrightarrow 00{:}05{:}59.455$  that microbiome to flourish,

NOTE Confidence: 0.56966956

 $00:05:59.460 \longrightarrow 00:06:02.592$  and many things that caused it to die back.

 $00:06:02.600 \longrightarrow 00:06:06.488$  And so we'll talk about all of those.

NOTE Confidence: 0.56966956

 $00:06:06.490 \longrightarrow 00:06:08.482$  These colonies come.

NOTE Confidence: 0.56966956

 $00:06:08.482 \longrightarrow 00:06:11.802$  Are deeply influenced by our

NOTE Confidence: 0.56966956

 $00:06:11.802 \longrightarrow 00:06:14.849$  diet and our lifestyle.

NOTE Confidence: 0.56966956

 $00:06:14.850 \longrightarrow 00:06:16.754$  And we'll talk about all of that.

NOTE Confidence: 0.872754556666667

 $00:06:18.940 \longrightarrow 00:06:22.630$  So the microbiome is they are.

NOTE Confidence: 0.872754556666667

 $00{:}06{:}22.630 \dashrightarrow 00{:}06{:}24.770$  The bacteria were talking about

NOTE Confidence: 0.872754556666667

 $00:06:24.770 \longrightarrow 00:06:27.689$  the bacteria that is on our skin,

NOTE Confidence: 0.872754556666667

 $00:06:27.690 \longrightarrow 00:06:32.924$  our hair, our face, and also in US.

NOTE Confidence: 0.872754556666667

00:06:32.924 --> 00:06:34.668 And it's really interesting,

NOTE Confidence: 0.872754556666667

 $00{:}06{:}34.670 \dashrightarrow 00{:}06{:}36.966$  because if we took a snapshot and

NOTE Confidence: 0.872754556666667

 $00:06:36.966 \longrightarrow 00:06:39.630$  were able to look at the the microbes

NOTE Confidence: 0.872754556666667

 $00:06:39.630 \longrightarrow 00:06:41.950$  here in the crook of your arm,

NOTE Confidence: 0.872754556666667

00:06:41.950 --> 00:06:45.070 they'd be really different than, say,

NOTE Confidence: 0.872754556666667

 $00:06:45.070 \longrightarrow 00:06:48.598$  the microbes on your calf. They are.

NOTE Confidence: 0.872754556666667

 $00:06:48.598 \longrightarrow 00:06:51.496$  Unique to that area of the body

 $00:06:51.496 \longrightarrow 00:06:54.856$  and they all have unique functions.

NOTE Confidence: 0.872754556666667

 $00:06:54.860 \longrightarrow 00:06:56.606$  Here are some of the bacteria,

NOTE Confidence: 0.872754556666667

00:06:56.610 --> 00:06:58.380 Archaea, fungi, viruses,

NOTE Confidence: 0.872754556666667

 $00:06:58.380 \longrightarrow 00:07:00.740$  yeasts and other microbes.

NOTE Confidence: 0.872754556666667

00:07:00.740 --> 00:07:04.926 The fascinating thing about that is that

NOTE Confidence: 0.872754556666667

 $00:07:04.930 \dashrightarrow 00:07:09.925$  those are the same microbes that we see in.

NOTE Confidence: 0.872754556666667

 $00:07:09.930 \longrightarrow 00:07:13.248$  The microbiome of the soil or the

NOTE Confidence: 0.872754556666667

 $00{:}07{:}13.248 \dashrightarrow 00{:}07{:}16.327$  rhizosphere of the soil and that

NOTE Confidence: 0.872754556666667

 $00{:}07{:}16.327 \dashrightarrow 00{:}07{:}19.447$  we know there are deep similarities

NOTE Confidence: 0.872754556666667

00:07:19.447 --> 00:07:22.734 between the soil and plant

NOTE Confidence: 0.872754556666667

00:07:22.734 --> 00:07:26.189 microbiomes and the human microbiome,

NOTE Confidence: 0.872754556666667

 $00:07:26.190 \longrightarrow 00:07:29.556$  which is just a fascinating topic.

NOTE Confidence: 0.927533841428571

 $00{:}07{:}32.350 \dashrightarrow 00{:}07{:}35.724$  So we're going to look at this.

NOTE Confidence: 0.9337662

 $00:07:40.120 \longrightarrow 00:07:43.440$  Sorry. We're going to look at

NOTE Confidence: 0.9337662

 $00:07:43.440 \longrightarrow 00:07:47.078$  this for just a moment. This is a

00:07:47.078 --> 00:07:50.740 picture of the digestive system.

NOTE Confidence: 0.746729479

 $00:07:53.500 \longrightarrow 00:07:56.482$  The two peer at the top that

NOTE Confidence: 0.746729479

00:07:56.482 --> 00:07:58.386 is your esophagus, food cup.

NOTE Confidence: 0.746729479

 $00:07:58.386 \longrightarrow 00:07:59.638$  You chew your food.

NOTE Confidence: 0.746729479

00:07:59.640 --> 00:08:03.518 It comes down goes into the stomach

NOTE Confidence: 0.746729479

 $00:08:03.518 \longrightarrow 00:08:06.563$  where this chemically and mechanically

NOTE Confidence: 0.746729479

 $00{:}08{:}06.563 \dashrightarrow 00{:}08{:}09.726$  broken down into smaller particles

NOTE Confidence: 0.746729479

 $00:08:09.726 \longrightarrow 00:08:13.434$  and then it leaves the stomach.

NOTE Confidence: 0.746729479

 $00:08:13.440 \longrightarrow 00:08:17.166$  And enters here the small intestines

NOTE Confidence: 0.746729479

 $00:08:17.166 \longrightarrow 00:08:20.919$  and the small intestines are where

NOTE Confidence: 0.746729479

 $00{:}08{:}20.919 \dashrightarrow 00{:}08{:}23.829$  most of our digestion happens,

NOTE Confidence: 0.746729479

 $00:08:23.830 \longrightarrow 00:08:26.035$  so it continues to break the food

NOTE Confidence: 0.746729479

00:08:26.035 --> 00:08:28.330 down into its smallest particles,

NOTE Confidence: 0.746729479

 $00{:}08{:}28.330 \dashrightarrow 00{:}08{:}31.530$  and when it gets to the smallest particle,

NOTE Confidence: 0.746729479

 $00:08:31.530 \longrightarrow 00:08:35.445$  it will be able to move through the cell.

NOTE Confidence: 0.746729479

 $00:08:35.450 \longrightarrow 00:08:38.166$  The cell walls of the intestine and

 $00:08:38.166 \longrightarrow 00:08:40.928$  go through the rest of the process

NOTE Confidence: 0.746729479

 $00:08:40.928 \longrightarrow 00:08:43.208$  to be absorbed into the body.

NOTE Confidence: 0.746729479

 $00:08:43.210 \longrightarrow 00:08:47.540$  This is about. 21 to 23 feet long.

NOTE Confidence: 0.746729479

 $00:08:47.540 \longrightarrow 00:08:48.890$  The small intestines,

NOTE Confidence: 0.746729479

00:08:48.890 --> 00:08:50.798 which is quite remarkable

NOTE Confidence: 0.746729479

 $00:08:50.798 \longrightarrow 00:08:53.660$  that you have that in you.

NOTE Confidence: 0.746729479

 $00:08:53.660 \longrightarrow 00:08:56.356$  That that's in order for us to get

NOTE Confidence: 0.746729479

 $00:08:56.356 \longrightarrow 00:08:58.890$  as much nutrition as possible,

NOTE Confidence: 0.746729479

 $00:08:58.890 \longrightarrow 00:09:02.478$  so we want a really long.

NOTE Confidence: 0.746729479

 $00:09:02.480 \longrightarrow 00:09:05.322$  Right for that food to try and

NOTE Confidence: 0.746729479

 $00:09:05.322 \longrightarrow 00:09:07.518$  extract as much as we can.

NOTE Confidence: 0.746729479

 $00{:}09{:}07.520 \dashrightarrow 00{:}09{:}11.300$  What it's done that and moved

NOTE Confidence: 0.746729479

 $00{:}09{:}11.300 \dashrightarrow 00{:}09{:}14.673$  through it enters here down

NOTE Confidence: 0.746729479

00:09:14.673 --> 00:09:18.308 here into the large intestines.

NOTE Confidence: 0.746729479

 $00:09:18.310 \longrightarrow 00:09:20.314$  Now the large intestine are only

00:09:20.314 --> 00:09:22.320 between seven and nine feet long,

NOTE Confidence: 0.746729479

 $00:09:22.320 \longrightarrow 00:09:24.990$  but they're bigger in diameter.

NOTE Confidence: 0.746729479

 $00:09:24.990 \longrightarrow 00:09:31.308$  And what happens here is much less of the.

NOTE Confidence: 0.746729479

 $00:09:31.310 \longrightarrow 00:09:33.738$  Option is happening here.

NOTE Confidence: 0.746729479

 $00:09:33.738 \longrightarrow 00:09:35.559$  This is more.

NOTE Confidence: 0.746729479

 $00:09:35.560 \longrightarrow 00:09:37.770$  Reabsorption of water and things

NOTE Confidence: 0.746729479

 $00:09:37.770 \longrightarrow 00:09:40.841$  like that and getting the food the

NOTE Confidence: 0.746729479

00:09:40.841 --> 00:09:43.175 undigested part of the food ready

NOTE Confidence: 0.746729479

 $00:09:43.175 \longrightarrow 00:09:45.940$  to leave the body in our stool so.

NOTE Confidence: 0.746729479

 $00:09:45.940 \longrightarrow 00:09:49.744$  This section the large intestines is

NOTE Confidence: 0.746729479

 $00{:}09{:}49.744 \dashrightarrow 00{:}09{:}54.279$  where most of our bacteria reside.

NOTE Confidence: 0.746729479

 $00:09:54.280 \longrightarrow 00:09:58.440$  There are. Up to.

NOTE Confidence: 0.746729479

 $00:09:58.440 \longrightarrow 00:10:02.402$  I think we think 100 trillion bacteria

NOTE Confidence: 0.746729479

00:10:02.402 --> 00:10:05.847 residing in this area of the body

NOTE Confidence: 0.746729479

 $00:10:05.850 \longrightarrow 00:10:09.266$  and what is moving into that area is

NOTE Confidence: 0.746729479

 $00{:}10{:}09.266 \dashrightarrow 00{:}10{:}11.921$  the undigested part of the food or

 $00:10:11.921 \longrightarrow 00:10:14.978$  the fiber of the food we always hear.

NOTE Confidence: 0.746729479

 $00{:}10{:}14.980 \longrightarrow 00{:}10{:}16.555$  Oh you need to eat more fiber.

NOTE Confidence: 0.746729479

 $00:10:16.560 \longrightarrow 00:10:18.320$  You need to have lots of fiber in your diet.

NOTE Confidence: 0.746729479 00:10:18.320 --> 00:10:18.745 Well, NOTE Confidence: 0.746729479

 $00:10:18.745 \longrightarrow 00:10:21.720$  one of the main reasons for that

NOTE Confidence: 0.746729479

 $00:10:21.720 \longrightarrow 00:10:25.757$  is to provide food to the microbes

NOTE Confidence: 0.746729479

 $00:10:25.757 \longrightarrow 00:10:28.847$  that colonize the large intestines.

NOTE Confidence: 0.746729479 00:10:28.850 --> 00:10:29.165 OK, NOTE Confidence: 0.746729479

00:10:29.165 --> 00:10:31.055 so that's where we're going to

NOTE Confidence: 0.746729479

 $00:10:31.055 \longrightarrow 00:10:33.931$  spend the most time today is in the

NOTE Confidence: 0.746729479

00:10:33.931 --> 00:10:35.419 large intestines talking about.

NOTE Confidence: 0.746729479

 $00:10:35.420 \longrightarrow 00:10:38.978$  About those microbes.

NOTE Confidence: 0.746729479

 $00:10:38.980 \longrightarrow 00:10:42.060$  So the purpose of that is to

NOTE Confidence: 0.746729479

 $00:10:42.060 \longrightarrow 00:10:43.750$  feed those microbes OK?

NOTE Confidence: 0.7514546

 $00:10:45.810 \longrightarrow 00:10:50.480$  So. Why is the microbiome important?

00:10:50.480 --> 00:10:51.860 And again, we're talking

NOTE Confidence: 0.7514546

 $00:10:51.860 \longrightarrow 00:10:53.930$  about the ones that reside in

NOTE Confidence: 0.7514546

 $00:10:53.994 \longrightarrow 00:10:55.909$  those in the large intestines,

NOTE Confidence: 0.7514546

 $00:10:55.910 \longrightarrow 00:10:59.396$  so they act as immune modulators.

NOTE Confidence: 0.7514546

 $00:10:59.400 \longrightarrow 00:11:02.221$  That means that they kind of are

NOTE Confidence: 0.7514546

00:11:02.221 --> 00:11:04.649 are training your immune system.

NOTE Confidence: 0.7514546

 $00:11:04.650 \longrightarrow 00:11:06.505$  They they keep your immune

NOTE Confidence: 0.7514546

00:11:06.505 --> 00:11:08.780 system from getting out of hand,

NOTE Confidence: 0.7514546

 $00:11:08.780 \longrightarrow 00:11:12.688$  as in autoimmune issues.

NOTE Confidence: 0.7514546

00:11:12.690 --> 00:11:15.154 And keep it active enough so that

NOTE Confidence: 0.7514546

00:11:15.154 --> 00:11:17.980 it is your immune system is is

NOTE Confidence: 0.7514546

00:11:17.980 --> 00:11:20.440 steady and and healthy for you,

NOTE Confidence: 0.7514546

 $00:11:20.440 \longrightarrow 00:11:22.589$  so it it keeps your immune system

NOTE Confidence: 0.7514546

 $00:11:22.589 \longrightarrow 00:11:24.349$  right where it needs to be.

NOTE Confidence: 0.7514546

 $00:11:24.350 \longrightarrow 00:11:27.185$  It helps to modulate that they

NOTE Confidence: 0.7514546

 $00{:}11{:}27.185 \dashrightarrow 00{:}11{:}29.260$  actually key late heavy metals

 $00:11:29.260 \longrightarrow 00:11:31.650$  and other toxins from the body.

NOTE Confidence: 0.7514546

 $00:11:31.650 \longrightarrow 00:11:33.932$  And key light means that they kind

NOTE Confidence: 0.7514546

00:11:33.932 --> 00:11:36.539 of grab onto and have a way of

NOTE Confidence: 0.7514546

 $00:11:36.539 \longrightarrow 00:11:38.489$  bonding to get those toxins and

NOTE Confidence: 0.7514546

 $00:11:38.489 \longrightarrow 00:11:40.722$  heavy metals out of your body so

NOTE Confidence: 0.7514546

 $00:11:40.722 \longrightarrow 00:11:42.700$  that they don't stay in the body.

NOTE Confidence: 0.7514546

00:11:42.700 --> 00:11:45.140 And lodge in areas that you don't want

NOTE Confidence: 0.7514546

 $00:11:45.140 \longrightarrow 00:11:47.737$  them to get reabsorbed into the body.

NOTE Confidence: 0.7514546

 $00:11:47.740 \longrightarrow 00:11:51.025$  We want to get toxins out of our body

NOTE Confidence: 0.7514546

 $00{:}11{:}51.025 \dashrightarrow 00{:}11{:}54.085$  as easily and quickly as possible

NOTE Confidence: 0.7514546

 $00:11:54.085 \longrightarrow 00:11:57.240$  and these microbes help do that.

NOTE Confidence: 0.7514546

 $00:11:57.240 \longrightarrow 00:12:02.416$  They convert that undigested food into many.

NOTE Confidence: 0.7514546

00:12:02.416 --> 00:12:05.288 Of our B vitamins.

NOTE Confidence: 0.7514546

 $00:12:05.290 \longrightarrow 00:12:10.150$  So we are actually getting a lot of our

NOTE Confidence: 0.7514546

 $00:12:10.150 \longrightarrow 00:12:14.229$  nutrition from these microbes in our gut,

 $00:12:14.230 \longrightarrow 00:12:15.152$  especially B12.

NOTE Confidence: 0.7514546

00:12:15.152 --> 00:12:19.769 And we have large stores of B12 in our body.

NOTE Confidence: 0.7514546

 $00:12:19.770 \longrightarrow 00:12:23.088$  But if we use that B12 up.

NOTE Confidence: 0.7514546

 $00:12:23.090 \longrightarrow 00:12:24.762$  We we can't survive,

NOTE Confidence: 0.7514546

 $00:12:24.762 \longrightarrow 00:12:26.852$  so these bacteria are actually

NOTE Confidence: 0.7514546

 $00:12:26.852 \longrightarrow 00:12:29.247$  in there helping to convert the

NOTE Confidence: 0.7514546

 $00:12:29.247 \longrightarrow 00:12:31.769$  B12 to a usable form for us.

NOTE Confidence: 0.7514546

 $00:12:31.770 \longrightarrow 00:12:33.686$  They make vitamin K2.

NOTE Confidence: 0.7514546

 $00:12:33.686 \longrightarrow 00:12:37.182$  Vitamin K2 is helps to dry bone

NOTE Confidence: 0.7514546

 $00:12:37.182 \longrightarrow 00:12:41.270$  or calcium into bone. It helps.

NOTE Confidence: 0.7514546

 $00{:}12{:}41.270 \dashrightarrow 00{:}12{:}44.714$  Vitamin D converted to a usable form.

NOTE Confidence: 0.7514546

 $00:12:44.720 \longrightarrow 00:12:45.834$  It's it's.

NOTE Confidence: 0.7514546

 $00:12:45.834 \longrightarrow 00:12:48.619$  It's just a really important.

NOTE Confidence: 0.898620681

00:12:50.770 --> 00:12:53.524 Nutrient in our body and they

NOTE Confidence: 0.898620681

 $00:12:53.524 \longrightarrow 00:12:55.360$  are responsible for that.

NOTE Confidence: 0.898620681

 $00:12:55.360 \longrightarrow 00:12:57.680$  So they also help make

 $00:12:57.680 \longrightarrow 00:12:59.536$  short chain fatty acids.

NOTE Confidence: 0.898620681

 $00:12:59.540 \longrightarrow 00:13:00.380$  What the heck is it?

NOTE Confidence: 0.898620681

00:13:00.380 --> 00:13:05.096 Short chain, fatty acid they are.

NOTE Confidence: 0.898620681

00:13:05.100 --> 00:13:08.909 Uhm? Short change fats

NOTE Confidence: 0.898620681

 $00:13:08.909 \longrightarrow 00:13:12.174$  that we use for different.

NOTE Confidence: 0.908925470714286

00:13:14.260 --> 00:13:16.592 Different issues, different uses,

NOTE Confidence: 0.908925470714286

 $00:13:16.592 \longrightarrow 00:13:20.090$  so they make butyric acid which

NOTE Confidence: 0.908925470714286

 $00{:}13{:}20.179 \dashrightarrow 00{:}13{:}22.867$  actually feeds our intestines.

NOTE Confidence: 0.908925470714286

 $00:13:22.870 \longrightarrow 00:13:27.120$  So these bacteria then make.

NOTE Confidence: 0.908925470714286

 $00:13:27.120 \longrightarrow 00:13:29.005$  Fatty acids to feed the

NOTE Confidence: 0.908925470714286

 $00:13:29.005 \longrightarrow 00:13:30.513$  cells in our intestines.

NOTE Confidence: 0.908925470714286

 $00{:}13{:}30.520 \dashrightarrow 00{:}13{:}33.320$  Right now we see a lot of people

NOTE Confidence: 0.908925470714286

 $00{:}13{:}33.320 \dashrightarrow 00{:}13{:}36.064$  who have digestive issues going on

NOTE Confidence: 0.908925470714286

 $00:13:36.064 \longrightarrow 00:13:39.672$  a lot of intestinal issues going on,

NOTE Confidence: 0.908925470714286

 $00:13:39.672 \longrightarrow 00:13:42.262$  and these short chain fatty

 $00:13:42.262 \longrightarrow 00:13:45.342$  acids that are assisted by these

NOTE Confidence: 0.908925470714286

 $00:13:45.342 \longrightarrow 00:13:47.865$  microbes actually help to feed and

NOTE Confidence: 0.908925470714286

 $00:13:47.865 \longrightarrow 00:13:50.902$  take care of that lining of your

NOTE Confidence: 0.908925470714286

00:13:50.902 --> 00:13:53.217 intestines to keep them healthy.

NOTE Confidence: 0.908925470714286

00:13:53.220 --> 00:13:55.620 They reduce short chain fatty acids,

NOTE Confidence: 0.908925470714286

00:13:55.620 --> 00:13:57.246 actually reduce inflammation,

NOTE Confidence: 0.908925470714286

00:13:57.246 --> 00:13:59.956 and we know all disease.

NOTE Confidence: 0.908925470714286

 $00:13:59.960 \longrightarrow 00:14:01.976$  Almost every disease I can think

NOTE Confidence: 0.908925470714286

 $00:14:01.976 \longrightarrow 00:14:04.300$  of is caused by inflammation,

NOTE Confidence: 0.908925470714286

 $00:14:04.300 \longrightarrow 00:14:07.184$  so these short chain fatty acids helped

NOTE Confidence: 0.908925470714286

00:14:07.184 --> 00:14:09.819 to modulate that that inflammation,

NOTE Confidence: 0.908925470714286 00:14:09.820 --> 00:14:10.932 reduce it, NOTE Confidence: 0.908925470714286

 $00:14:10.932 \longrightarrow 00:14:15.352$  and that is helped by these microbes.

NOTE Confidence: 0.908925470714286

 $00:14:15.352 \longrightarrow 00:14:17.416$  So they also.

NOTE Confidence: 0.908925470714286

 $00:14:17.420 \longrightarrow 00:14:20.500$  And here's the part about the happiness.

NOTE Confidence: 0.908925470714286

 $00:14:20.500 \longrightarrow 00:14:24.388$  They also help to.

00:14:24.388 --> 00:14:27.304 Make chemical neurotransmitters,

NOTE Confidence: 0.908925470714286

 $00:14:27.310 \longrightarrow 00:14:27.856$  neurotransmitters,

NOTE Confidence: 0.908925470714286

00:14:27.856 --> 00:14:30.040 armss or chemical messengers

NOTE Confidence: 0.908925470714286

 $00:14:30.040 \longrightarrow 00:14:33.230$  in your body that allow your

NOTE Confidence: 0.908925470714286

 $00:14:33.230 \longrightarrow 00:14:35.492$  brain to communicate to the rest

NOTE Confidence: 0.908925470714286

 $00:14:35.492 \longrightarrow 00:14:37.778$  of the body of what to do.

NOTE Confidence: 0.908925470714286

00:14:37.780 --> 00:14:41.159 These are things like serotonin, GABA,

NOTE Confidence: 0.908925470714286

 $00:14:41.159 \longrightarrow 00:14:43.676$  dopamine, these neurotransmitters,

NOTE Confidence: 0.908925470714286

 $00{:}14{:}43.676 \dashrightarrow 00{:}14{:}49.530$  knitters help you to improve in sleep,

NOTE Confidence: 0.908925470714286

 $00:14:49.530 \longrightarrow 00:14:52.820$  and your mood. It's they.

NOTE Confidence: 0.908925470714286

 $00:14:52.820 \longrightarrow 00:14:54.968$  They are hugely important.

NOTE Confidence: 0.908925470714286

 $00:14:54.968 \longrightarrow 00:14:57.653$  There is some there actually,

NOTE Confidence: 0.908925470714286

 $00{:}14{:}57.660 \dashrightarrow 00{:}14{:}59.648$  so we know that there are receptor

NOTE Confidence: 0.908925470714286

 $00:14:59.648 \longrightarrow 00:15:00.932$  sites for these neurotransmitters

NOTE Confidence: 0.908925470714286

 $00:15:00.932 \longrightarrow 00:15:03.128$  and we used to always think

 $00:15:03.130 \longrightarrow 00:15:05.470$  that most of the serotonin.

NOTE Confidence: 0.908925470714286

 $00{:}15{:}05.470 \dashrightarrow 00{:}15{:}07.768$  Most of these receptor sites were

NOTE Confidence: 0.908925470714286

 $00:15:07.768 \longrightarrow 00:15:10.310$  in the brain that serotonin was

NOTE Confidence: 0.908925470714286

 $00:15:10.310 \longrightarrow 00:15:12.640$  something that that your brain

NOTE Confidence: 0.908925470714286

 $00:15:12.640 \longrightarrow 00:15:15.088$  was producing and it was there.

NOTE Confidence: 0.908925470714286

00:15:15.090 --> 00:15:17.200 But we've recently discovered with

NOTE Confidence: 0.908925470714286

 $00:15:17.200 \longrightarrow 00:15:19.721$  the study of the microbiome that

NOTE Confidence: 0.908925470714286

 $00:15:19.721 \longrightarrow 00:15:22.187$  most of your receptor sites more.

NOTE Confidence: 0.908925470714286

 $00:15:22.190 \longrightarrow 00:15:23.650$  A few receptor sites,

NOTE Confidence: 0.908925470714286

 $00:15:23.650 \longrightarrow 00:15:24.745$  serotonin receptor sites,

NOTE Confidence: 0.908925470714286

 $00:15:24.750 \longrightarrow 00:15:27.718$  are in your gut, not the brain,

NOTE Confidence: 0.908925470714286

 $00:15:27.720 \longrightarrow 00:15:30.895$  so quite remarkable and again

NOTE Confidence: 0.908925470714286

00:15:30.895 --> 00:15:34.070 showing the importance of that.

NOTE Confidence: 0.908925470714286

00:15:34.070 --> 00:15:37.090 Uhm? Of those neurotransmitters

NOTE Confidence: 0.908925470714286

 $00:15:37.090 \longrightarrow 00:15:39.355$  and that microbiome.

NOTE Confidence: 0.908925470714286

00:15:39.360 --> 00:15:42.720 So healthy microbiome helps make a healthy,

 $00:15:42.720 \longrightarrow 00:15:45.450$  healthy, happy person.

NOTE Confidence: 0.908925470714286

 $00:15:45.450 \longrightarrow 00:15:48.285$  OK. So how do we do that?

NOTE Confidence: 0.908925470714286

00:15:48.290 --> 00:15:54.113 How do we create a healthy microbiome in us?

NOTE Confidence: 0.887842625

 $00:15:56.420 \longrightarrow 00:15:58.639$  When and we used to believe that

NOTE Confidence: 0.887842625

00:15:58.639 --> 00:16:00.999 the womb was completely sterile,

NOTE Confidence: 0.887842625

 $00:16:01.000 \longrightarrow 00:16:02.764$  when you are when the the

NOTE Confidence: 0.887842625

 $00:16:02.764 \longrightarrow 00:16:05.478$  fetuses in the womb that bats are

NOTE Confidence: 0.887842625

00:16:05.478 --> 00:16:06.948 completely sterile environment,

NOTE Confidence: 0.887842625

 $00:16:06.950 \longrightarrow 00:16:08.015$  we're learning that it's not

NOTE Confidence: 0.887842625

 $00:16:08.015 \longrightarrow 00:16:09.460$  quite as sterile as we thought,

NOTE Confidence: 0.887842625

 $00:16:09.460 \longrightarrow 00:16:12.556$  but it is very controlled over what can

NOTE Confidence: 0.887842625

 $00:16:12.556 \longrightarrow 00:16:15.820$  cross that placenta into that environment.

NOTE Confidence: 0.887842625

 $00{:}16{:}15.820 \dashrightarrow 00{:}16{:}20.316$  So basically the baby is is sealed off

NOTE Confidence: 0.887842625

 $00:16:20.316 \longrightarrow 00:16:23.581$  from a lot of the the bacteria and and

NOTE Confidence: 0.887842625

 $00:16:23.581 \longrightarrow 00:16:26.492$  microbes of the world, but at birth.

 $00:16:26.492 \longrightarrow 00:16:30.068$  And I'm talking about a vaginal birth as

NOTE Confidence: 0.887842625

 $00{:}16{:}30.068 \operatorname{{\text{--}}}{>} 00{:}16{:}33.197$  the baby moves through the birth canal,

NOTE Confidence: 0.887842625

 $00:16:33.200 \longrightarrow 00:16:37.001$  that baby is coded in the mothers

NOTE Confidence: 0.887842625

00:16:37.001 --> 00:16:40.404 microbes that line her birth canal and

NOTE Confidence: 0.887842625

 $00:16:40.404 \longrightarrow 00:16:44.323$  so that baby is a is first inoculated

NOTE Confidence: 0.887842625

00:16:44.323 --> 00:16:47.425 at birth and we've now know the

NOTE Confidence: 0.887842625

 $00:16:47.425 \longrightarrow 00:16:49.220$  importance of that first inoculation.

NOTE Confidence: 0.887842625

00:16:49.220 --> 00:16:51.468 And So what they've been doing in a

NOTE Confidence: 0.887842625

 $00{:}16{:}51.468 \dashrightarrow 00{:}16{:}54.066$  lot of hospitals his that C-section

NOTE Confidence: 0.887842625

 $00:16:54.066 \longrightarrow 00:16:57.230$  babies who do not get that exposure.

NOTE Confidence: 0.887842625

 $00{:}16{:}57.230 \dashrightarrow 00{:}17{:}00.710$  Two, those microbes are actually being

NOTE Confidence: 0.887842625

 $00:17:00.710 \longrightarrow 00:17:04.749$  swabbed by the doctors with the mothers.

NOTE Confidence: 0.887842625

 $00:17:04.750 \longrightarrow 00:17:07.298$  Microbe so they take a cloth

NOTE Confidence: 0.887842625

 $00:17:07.298 \longrightarrow 00:17:09.953$  and they they swab the mother with

NOTE Confidence: 0.887842625

 $00:17:09.953 \longrightarrow 00:17:12.622$  that and then they swab the baby

NOTE Confidence: 0.887842625

 $00:17:12.622 \longrightarrow 00:17:15.114$  with it to introduce that to the

 $00:17:15.114 \longrightarrow 00:17:18.918$  baby and so at that moment.

NOTE Confidence: 0.887842625

 $00{:}17{:}18.918 {\:\dashrightarrow\:} 00{:}17{:}22.022$  Your baby's microbiome looks very

NOTE Confidence: 0.887842625

 $00:17:22.022 \longrightarrow 00:17:24.735$  much like the mothers microbiome

NOTE Confidence: 0.887842625

 $00:17:24.735 \longrightarrow 00:17:27.825$  because that has been the introduction

NOTE Confidence: 0.887842625

00:17:27.825 --> 00:17:30.220 that that baby's gotten up,

NOTE Confidence: 0.887842625

 $00:17:30.220 \longrightarrow 00:17:32.950$  and then the baby is maybe breast

NOTE Confidence: 0.887842625

 $00:17:32.950 \longrightarrow 00:17:35.856$  fed and the mother is holding that

NOTE Confidence: 0.887842625

 $00:17:35.856 \longrightarrow 00:17:39.311$  baby and the baby is up against her

NOTE Confidence: 0.887842625

00:17:39.311 --> 00:17:42.405 skin and getting milk from from her,

NOTE Confidence: 0.887842625

 $00{:}17{:}42.410 \dashrightarrow 00{:}17{:}44.825$  and that's another inoculation of

NOTE Confidence: 0.887842625

00:17:44.825 --> 00:17:49.112 microbes to that baby, and then that baby.

NOTE Confidence: 0.887842625

 $00:17:49.112 \longrightarrow 00:17:50.876$  Gets passed from.

NOTE Confidence: 0.887842625

 $00:17:50.880 \longrightarrow 00:17:53.445$  Aunts and uncles and grandparents

NOTE Confidence: 0.887842625

00:17:53.445 --> 00:17:56.378 and siblings and parents and and

NOTE Confidence: 0.887842625

 $00:17:56.378 \longrightarrow 00:17:58.586$  that skin to skin contact that

 $00:17:58.586 \longrightarrow 00:18:01.259$  that baby is getting the kisses.

NOTE Confidence: 0.887842625

 $00{:}18{:}01.260 \dashrightarrow 00{:}18{:}04.604$  The you know just the resting on your

NOTE Confidence: 0.887842625

 $00:18:04.604 \longrightarrow 00:18:08.813$  skin on the on the chest of a parent that

NOTE Confidence: 0.887842625

 $00:18:08.813 \longrightarrow 00:18:13.524$  is introducing more microbes to that baby.

NOTE Confidence: 0.887842625

 $00:18:13.530 \longrightarrow 00:18:16.194$  When baby gets older and it becomes a

NOTE Confidence: 0.887842625

00:18:16.194 --> 00:18:18.567 toddler and starts playing and putting

NOTE Confidence: 0.887842625

00:18:18.567 --> 00:18:21.015 every dirty thing in their mouth.

NOTE Confidence: 0.887842625

00:18:21.020 --> 00:18:22.950 Playing outside in the dirt,

NOTE Confidence: 0.887842625

 $00{:}18{:}22.950 \dashrightarrow 00{:}18{:}25.340$  petting all of their animals.

NOTE Confidence: 0.887842625

 $00:18:25.340 \longrightarrow 00:18:28.505$  That is another introduction to

NOTE Confidence: 0.887842625

 $00{:}18{:}28.505 \dashrightarrow 00{:}18{:}31.670$  microbes in the environment that

NOTE Confidence: 0.887842625

 $00{:}18{:}31.775 \dashrightarrow 00{:}18{:}34.247$  train your immune system.

NOTE Confidence: 0.887842625

 $00{:}18{:}34.250 \dashrightarrow 00{:}18{:}38.186$  Keep you healthy and and expose

NOTE Confidence: 0.887842625

 $00:18:38.186 \longrightarrow 00:18:40.810$  and build your microbiome,

NOTE Confidence: 0.887842625

00:18:40.810 --> 00:18:43.126 your specific microbes.

NOTE Confidence: 0.887842625

 $00:18:43.126 \longrightarrow 00:18:47.272$  They have actually done studies and

 $00{:}18{:}47.272 \dashrightarrow 00{:}18{:}50.954$  found that kids raised on farms with.

NOTE Confidence: 0.887842625

 $00:18:50.960 \longrightarrow 00:18:52.899$  A lot of animals endure in the

NOTE Confidence: 0.887842625

 $00:18:52.899 \longrightarrow 00:18:54.320$  dirt and out helping,

NOTE Confidence: 0.887842625

 $00:18:54.320 \longrightarrow 00:18:55.286$  and you know,

NOTE Confidence: 0.887842625

 $00:18:55.286 \longrightarrow 00:18:57.540$  doing all of those things tend to

NOTE Confidence: 0.887842625

 $00:18:57.609 \longrightarrow 00:19:00.388$  have lower rates of things like asthma

NOTE Confidence: 0.887842625

 $00:19:00.388 \longrightarrow 00:19:02.609$  and other childhood diseases that.

NOTE Confidence: 0.887842625 00:19:02.610 --> 00:19:03.124 Debt.

NOTE Confidence: 0.887842625

 $00:19:03.124 \longrightarrow 00:19:05.694$  Are maybe inflammatory based because

NOTE Confidence: 0.887842625

 $00:19:05.694 \longrightarrow 00:19:08.839$  they have gotten a larger exposure

NOTE Confidence: 0.887842625

 $00:19:08.839 \longrightarrow 00:19:11.827$  to all of these different microbes

NOTE Confidence: 0.887842625

 $00:19:11.827 \longrightarrow 00:19:13.920$  in their environment,

NOTE Confidence: 0.887842625

 $00{:}19{:}13.920 \dashrightarrow 00{:}19{:}17.430$  training their immune system to

NOTE Confidence: 0.887842625

 $00:19:17.430 \longrightarrow 00:19:19.536$  be more robust.

NOTE Confidence: 0.887842625

 $00:19:19.540 \longrightarrow 00:19:22.444$  And so exposure to a less than perfectly

00:19:22.444 --> 00:19:24.678 clean environment isn't such a bad thing.

NOTE Confidence: 0.887842625

00:19:24.680 --> 00:19:26.438 I know many people are probably

NOTE Confidence: 0.887842625

 $00:19:26.438 \longrightarrow 00:19:28.259$  cheering right now that you don't

NOTE Confidence: 0.887842625

 $00:19:28.259 \longrightarrow 00:19:29.724$  need to keep everything sterile

NOTE Confidence: 0.887842625

 $00:19:29.724 \longrightarrow 00:19:31.200$  when you have an infant,

NOTE Confidence: 0.887842625 00:19:31.200 --> 00:19:31.595 that, NOTE Confidence: 0.887842625

 $00:19:31.595 \longrightarrow 00:19:35.780$  I mean you want you want to use common sense.

NOTE Confidence: 0.887842625 00:19:35.780 --> 00:19:36.110 Uhm,

NOTE Confidence: 0.887842625

 $00{:}19{:}36.110 \dashrightarrow 00{:}19{:}38.750$  when we eat raw foods when we go

NOTE Confidence: 0.887842625

 $00{:}19{:}38.750 \dashrightarrow 00{:}19{:}41.587$  out to the farm all the beautiful

NOTE Confidence: 0.887842625

00:19:41.587 --> 00:19:43.199 sea essays and farms

NOTE Confidence: 0.785041332272727

 $00:19:43.283 \longrightarrow 00:19:45.344$  serves our community supported agricultural.

NOTE Confidence: 0.785041332272727

 $00:19:45.344 \longrightarrow 00:19:49.032$  You get to go out and pick your own

NOTE Confidence: 0.785041332272727

00:19:49.032 --> 00:19:51.768 vegetables or you you head out there and

NOTE Confidence: 0.785041332272727

 $00:19:51.838 \longrightarrow 00:19:54.628$  you're picking things and nibbling then.

NOTE Confidence: 0.785041332272727

00:19:54.630 --> 00:19:56.174 Eating things directly from

00:19:56.174 --> 00:19:58.104 your garden or the farm.

NOTE Confidence: 0.785041332272727

 $00:19:58.110 \longrightarrow 00:20:00.894$  Those all plants are coated with

NOTE Confidence: 0.785041332272727

 $00:20:00.894 \longrightarrow 00:20:03.860$  microbes that help protect those plants.

NOTE Confidence: 0.785041332272727

 $00:20:03.860 \longrightarrow 00:20:08.290$  And when we eat those we're

NOTE Confidence: 0.785041332272727

 $00{:}20{:}08.290 \dashrightarrow 00{:}20{:}11.572$  adding to our microbiome a lot

NOTE Confidence: 0.785041332272727

00:20:11.572 --> 00:20:15.339 of virulent microbes would get.

NOTE Confidence: 0.785041332272727

00:20:15.340 --> 00:20:18.680 Killed by our digestive system,

NOTE Confidence: 0.785041332272727

 $00{:}20{:}18.680 \longrightarrow 00{:}20{:}23.620$  but some of the ones that we want to.

NOTE Confidence: 0.785041332272727

 $00:20:23.620 \longrightarrow 00:20:26.215$  Colonize are able to get

NOTE Confidence: 0.785041332272727

00:20:26.215 --> 00:20:28.810 through and into our system.

NOTE Confidence: 0.837093733846154

 $00:20:31.070 \longrightarrow 00:20:33.895$  And then fermented foods fermented

NOTE Confidence: 0.837093733846154

 $00:20:33.895 \longrightarrow 00:20:37.340$  foods are having a revival this

NOTE Confidence: 0.837093733846154

 $00:20:37.340 \longrightarrow 00:20:40.002$  last decade, and we're going to

NOTE Confidence: 0.837093733846154

 $00:20:40.002 \longrightarrow 00:20:42.850$  talk more about those at the end.

NOTE Confidence: 0.837093733846154

 $00:20:42.850 \longrightarrow 00:20:46.518$  To introduce you to some of these

 $00:20:46.518 \longrightarrow 00:20:50.000$  delicious and microbial rich foods.

NOTE Confidence: 0.83359539

00:20:55.110 --> 00:20:58.848 OK, so who is actually in charge?

NOTE Confidence: 0.83359539

 $00:20:58.850 \longrightarrow 00:21:04.216$  So if we look at the microbiome in humans,

NOTE Confidence: 0.83359539

 $00:21:04.216 \longrightarrow 00:21:11.198$  we know that we have 10 times more microbes.

NOTE Confidence: 0.83359539

 $00:21:11.200 \longrightarrow 00:21:16.033$  In an honest then we have our own cells.

NOTE Confidence: 0.83359539

 $00{:}21{:}16.040 \dashrightarrow 00{:}21{:}19.090$  Which equates to more microbial

NOTE Confidence: 0.83359539

 $00:21:19.090 \longrightarrow 00:21:22.610$  DNA than human DNA on us.

NOTE Confidence: 0.83359539

 $00:21:22.610 \longrightarrow 00:21:25.538$  So if we are more microbes.

NOTE Confidence: 0.83359539

 $00{:}21{:}25.540 \dashrightarrow 00{:}21{:}28.088$  Who's really in charge here is it?

NOTE Confidence: 0.83359539

 $00:21:28.090 \longrightarrow 00:21:30.666$  Is it us making the decisions and

NOTE Confidence: 0.884069978333333

 $00:21:32.810 \longrightarrow 00:21:35.306$  deciding what we're going to eat?

NOTE Confidence: 0.884069978333333

 $00:21:35.310 \longrightarrow 00:21:37.638$  Or is there other?

NOTE Confidence: 0.884069978333333

 $00:21:37.638 \longrightarrow 00:21:40.548$  Are there other influences so

NOTE Confidence: 0.884069978333333

 $00{:}21{:}40.548 \dashrightarrow 00{:}21{:}44.098$  we know that these microbes,

NOTE Confidence: 0.884069978333333

00:21:44.100 --> 00:21:47.117 when they get to a critical mass,

NOTE Confidence: 0.884069978333333

 $00{:}21{:}47.120 \dashrightarrow 00{:}21{:}50.252$  meaning whoever gets to a certain

00:21:50.252 --> 00:21:53.420 population in your large intestines?

NOTE Confidence: 0.884069978333333

 $00:21:53.420 \longrightarrow 00:21:55.694$  Is the one that's going to

NOTE Confidence: 0.884069978333333

 $00:21:55.694 \longrightarrow 00:21:57.210$  send the loudest signal.

NOTE Confidence: 0.884069978333333

 $00:21:57.210 \longrightarrow 00:22:00.280$  So in the positive sense,

NOTE Confidence: 0.884069978333333

 $00{:}22{:}00.280 \dashrightarrow 00{:}22{:}02.932$  if you are eating really well

NOTE Confidence: 0.884069978333333

 $00:22:02.932 \longrightarrow 00:22:05.899$  and you're living a stress free

NOTE Confidence: 0.884069978333333

00:22:05.899 --> 00:22:08.669 life and living pretty healthy,

NOTE Confidence: 0.884069978333333

 $00:22:08.670 \longrightarrow 00:22:11.850$  you're going to feed the

NOTE Confidence: 0.884069978333333

 $00:22:11.850 \longrightarrow 00:22:15.530$  microbes that are going to be.

NOTE Confidence: 0.884069978333333

00:22:15.530 --> 00:22:17.770 Benefiting you and your health,

NOTE Confidence: 0.884069978333333

 $00:22:17.770 \longrightarrow 00:22:20.260$  and they are going to therefore

NOTE Confidence: 0.884069978333333

 $00:22:20.260 \longrightarrow 00:22:23.310$  reproduce and build up their population.

NOTE Confidence: 0.884069978333333

 $00{:}22{:}23.310 \dashrightarrow 00{:}22{:}26.566$  And that's who's going to be signaling you.

NOTE Confidence: 0.884069978333333

 $00:22:26.570 \longrightarrow 00:22:29.792$  And then you tend to have

NOTE Confidence: 0.884069978333333

 $00:22:29.792 \longrightarrow 00:22:31.940$  much better results with.

00:22:31.940 --> 00:22:33.676 With what's being produced in your body,

NOTE Confidence: 0.884069978333333

 $00{:}22{:}33.680 \dashrightarrow 00{:}22{:}36.500$  those neurotransmitters and things like that,

NOTE Confidence: 0.884069978333333

 $00:22:36.500 \longrightarrow 00:22:38.800$  and the foods you crave.

NOTE Confidence: 0.884069978333333 00:22:38.800 --> 00:22:39.293 Conversely, NOTE Confidence: 0.884069978333333

00:22:39.293 --> 00:22:42.744 if you are eating a lot of

NOTE Confidence: 0.884069978333333

 $00:22:42.744 \longrightarrow 00:22:45.280$  sugar and refined foods.

NOTE Confidence: 0.884069978333333

00:22:45.280 --> 00:22:48.647 Uhm, a lot of foods that just

NOTE Confidence: 0.884069978333333

00:22:48.647 --> 00:22:50.740 aren't really nutrient dense,

NOTE Confidence: 0.884069978333333

 $00{:}22{:}50.740 --> 00{:}22{:}52.000$  and we'll get to that too.

NOTE Confidence: 0.884069978333333

 $00:22:52.000 \longrightarrow 00:22:56.725$  In a minute you tend to allow.

NOTE Confidence: 0.884069978333333

 $00:22:56.730 \longrightarrow 00:22:59.050$  The bacteria that thrive on

NOTE Confidence: 0.884069978333333

 $00:22:59.050 \longrightarrow 00:23:01.370$  those foods to become dominant.

NOTE Confidence: 0.884069978333333

00:23:01.370 --> 00:23:03.128 They are getting all the nutrition,

NOTE Confidence: 0.884069978333333

 $00:23:03.130 \longrightarrow 00:23:05.610$  so they're growing and re

NOTE Confidence: 0.884069978333333

00:23:05.610 --> 00:23:07.594 populating and their population

NOTE Confidence: 0.884069978333333

 $00:23:07.594 \longrightarrow 00:23:10.250$  gets big enough where it actually

 $00:23:10.250 \longrightarrow 00:23:12.890$  sends the signal to the brain.

NOTE Confidence: 0.884069978333333

 $00:23:12.890 \longrightarrow 00:23:14.210$  And in the case,

NOTE Confidence: 0.884069978333333

 $00:23:14.210 \longrightarrow 00:23:15.860$  let's look at something like

NOTE Confidence: 0.884069978333333

 $00:23:15.860 \longrightarrow 00:23:18.203$  Candida where we know that that is

NOTE Confidence: 0.884069978333333

 $00:23:18.203 \longrightarrow 00:23:20.251$  something that thrives on sugar and

NOTE Confidence: 0.884069978333333

00:23:20.251 --> 00:23:22.309 if their population you be needed,

NOTE Confidence: 0.884069978333333

 $00:23:22.310 \longrightarrow 00:23:23.934$  a lot of sugar you haven't been

NOTE Confidence: 0.884069978333333

 $00:23:23.934 \longrightarrow 00:23:25.719$  needing a lot of high fiber foods,

NOTE Confidence: 0.884069978333333

 $00:23:25.720 \longrightarrow 00:23:27.481$  sugar will become.

NOTE Confidence: 0.884069978333333

 $00{:}23{:}27.481 \dashrightarrow 00{:}23{:}30.416$  Almost addictive and what's happening

NOTE Confidence: 0.884069978333333

 $00:23:30.416 \longrightarrow 00:23:33.566$  is that that microbe is actually

NOTE Confidence: 0.884069978333333

 $00:23:33.566 \longrightarrow 00:23:35.542$  increasing population enough to

NOTE Confidence: 0.884069978333333

 $00{:}23{:}35.542 \dashrightarrow 00{:}23{:}38.208$  send the signal to your brain.

NOTE Confidence: 0.884069978333333

 $00:23:38.210 \longrightarrow 00:23:39.800$  To say sugar,

NOTE Confidence: 0.884069978333333

00:23:39.800 --> 00:23:43.510 you want sugar and you start thinking,

 $00:23:43.510 \longrightarrow 00:23:45.358$  Oh my gosh, I finished dinner.

NOTE Confidence: 0.884069978333333

 $00{:}23{:}45.360 \dashrightarrow 00{:}23{:}47.040$  I just need some sugar and there are

NOTE Confidence: 0.884069978333333

 $00:23:47.040 \longrightarrow 00:23:49.066$  a lot of factors that influence that.

NOTE Confidence: 0.884069978333333

 $00:23:49.070 \longrightarrow 00:23:53.630$  But they have a strong message to your

NOTE Confidence: 0.884069978333333

 $00:23:53.630 \longrightarrow 00:23:58.415$  brain to get you to crave those foods.

NOTE Confidence: 0.884069978333333

 $00:23:58.420 \longrightarrow 00:24:00.674$  It is the same the other way.

NOTE Confidence: 0.884069978333333

 $00:24:00.680 \longrightarrow 00:24:03.130$  You eat really well and

NOTE Confidence: 0.884069978333333

 $00:24:03.130 \longrightarrow 00:24:04.600$  those others populate,

NOTE Confidence: 0.884069978333333

 $00:24:04.600 \longrightarrow 00:24:06.848$  and the signaling is going to be oh,

NOTE Confidence: 0.884069978333333

 $00:24:06.850 \longrightarrow 00:24:08.940$  I would love a beautiful

NOTE Confidence: 0.884069978333333

 $00:24:08.940 \longrightarrow 00:24:10.612$  crisp apple right now.

NOTE Confidence: 0.884069978333333

00:24:10.620 --> 00:24:11.991 And you know,

NOTE Confidence: 0.884069978333333

00:24:11.991 --> 00:24:14.276 if you start training yourself,

NOTE Confidence: 0.884069978333333

 $00{:}24{:}14.280 \dashrightarrow 00{:}24{:}16.534$  we think it's ourselves the other way.

NOTE Confidence: 0.884069978333333

00:24:16.540 --> 00:24:18.868 But is it up training us or is

NOTE Confidence: 0.884069978333333

 $00:24:18.868 \longrightarrow 00:24:20.794$  it training those those microbes

00:24:20.794 --> 00:24:22.914 in helping them to populate?

NOTE Confidence: 0.884069978333333

 $00:24:22.920 \longrightarrow 00:24:24.700$  That's something that's being researched

NOTE Confidence: 0.884069978333333

00:24:24.700 --> 00:24:27.599 more and more and is quite fascinating.

NOTE Confidence: 0.884069978333333

 $00:24:27.600 \longrightarrow 00:24:29.679$  So what we do in our life.

NOTE Confidence: 0.884069978333333

 $00:24:29.680 \longrightarrow 00:24:31.780$  Determines which microbes will

NOTE Confidence: 0.884069978333333

 $00:24:31.780 \longrightarrow 00:24:34.930$  dominate our body and our brain.

NOTE Confidence: 0.884069978333333 00:24:34.930 --> 00:24:36.870 UM so. NOTE Confidence: 0.912314036666667

 $00:24:42.020 \longrightarrow 00:24:45.476$  OK, here are some of the disorders that

NOTE Confidence: 0.912314036666667

 $00{:}24{:}45.476 \dashrightarrow 00{:}24{:}48.340$  are associated with an unhealthy microbiome

NOTE Confidence: 0.912314036666667

 $00:24:48.340 \longrightarrow 00:24:51.780$  and I am not saying necessarily cause,

NOTE Confidence: 0.912314036666667

00:24:51.780 --> 00:24:55.602 but definitely play a role in and

NOTE Confidence: 0.912314036666667

 $00:24:55.602 \longrightarrow 00:24:59.885$  and that when we have a really

NOTE Confidence: 0.912314036666667

 $00{:}24{:}59.885 \dashrightarrow 00{:}25{:}03.045$  healthy microbiome it helps too.

NOTE Confidence: 0.912314036666667

 $00:25:03.050 \longrightarrow 00:25:05.898$  Helps to keep this in check and we've

NOTE Confidence: 0.912314036666667

 $00:25:05.898 \longrightarrow 00:25:08.074$  talked about some of the reasons

 $00:25:08.074 \longrightarrow 00:25:10.640$  why and we'll go through that so

NOTE Confidence: 0.912314036666667

 $00{:}25{:}10.640 \dashrightarrow 00{:}25{:}12.630$  oddly munitions where your immune

NOTE Confidence: 0.912314036666667

 $00:25:12.630 \longrightarrow 00:25:15.208$  system is is really running on high.

NOTE Confidence: 0.912314036666667

 $00:25:15.208 \longrightarrow 00:25:17.490$  Remember, we talked right at the beginning.

NOTE Confidence: 0.912314036666667

 $00:25:17.490 \longrightarrow 00:25:20.190$  These microbes are immune modulators.

NOTE Confidence: 0.912314036666667

 $00:25:20.190 \longrightarrow 00:25:23.630$  They help tame that and keep that at

NOTE Confidence: 0.912314036666667

 $00:25:23.630 \longrightarrow 00:25:26.100$  an even keel, anxiety and depression.

NOTE Confidence: 0.912314036666667

 $00:25:26.100 \longrightarrow 00:25:28.480$  Those a lot of times are the

NOTE Confidence: 0.912314036666667

00:25:28.552 --> 00:25:30.067 neurotransmitters we aren't

NOTE Confidence: 0.912314036666667

 $00:25:30.067 \longrightarrow 00:25:32.087$  producing enough of those.

NOTE Confidence: 0.912314036666667

 $00:25:32.090 \longrightarrow 00:25:33.898$  And so when we.

NOTE Confidence: 0.912314036666667

 $00:25:33.898 \longrightarrow 00:25:36.610$  Increase healthy microbes to our gut.

NOTE Confidence: 0.912314036666667

 $00:25:36.610 \longrightarrow 00:25:39.736$  They can help with those neurotransmitters

NOTE Confidence: 0.912314036666667

 $00:25:39.736 \longrightarrow 00:25:42.494$  that will help with our dopamine

NOTE Confidence: 0.912314036666667

 $00:25:42.494 \longrightarrow 00:25:44.882$  and our GABA and our serotonin.

NOTE Confidence: 0.912314036666667

00:25:44.890 --> 00:25:46.866 Those are things that make us feel good,

 $00:25:46.870 \longrightarrow 00:25:47.904$  sleep well,

NOTE Confidence: 0.912314036666667

 $00:25:47.904 \longrightarrow 00:25:51.523$  and can help with anxiety and depression.

NOTE Confidence: 0.912314036666667

 $00:25:51.530 \longrightarrow 00:25:53.582$  Obesity, we have. Actually,

NOTE Confidence: 0.912314036666667

 $00:25:53.582 \longrightarrow 00:25:56.820$  we meaning scientists in labs, have.

NOTE Confidence: 0.912314036666667

00:25:56.820 --> 00:26:01.510 Actually they breed mice to have obesity,

NOTE Confidence: 0.912314036666667

 $00:26:01.510 \longrightarrow 00:26:04.460$  genes, and be so they'll.

NOTE Confidence: 0.912314036666667

 $00:26:04.460 \longrightarrow 00:26:09.068$  Use those obese mice in studies they have

NOTE Confidence: 0.912314036666667

 $00:26:09.068 \longrightarrow 00:26:12.899$  actually taken microbes from obese mice,

NOTE Confidence: 0.912314036666667

 $00:26:12.900 \longrightarrow 00:26:15.900$  inserted them into lean,

NOTE Confidence: 0.912314036666667

 $00:26:15.900 \longrightarrow 00:26:20.400$  non obese mice and induced obesity

NOTE Confidence: 0.912314036666667 00:26:20.531 --> 00:26:21.929 to them so. NOTE Confidence: 0.912314036666667

00:26:21.930 --> 00:26:24.760 Microbes definitely play a role

NOTE Confidence: 0.912314036666667

 $00:26:24.760 \longrightarrow 00:26:28.790$  in in your the weight and and

NOTE Confidence: 0.912314036666667

00:26:28.790 --> 00:26:30.590 Parkinson's bowel disorders.

NOTE Confidence: 0.912314036666667

00:26:30.590 --> 00:26:32.504 Ms, Alzheimer's, autism,

 $00:26:32.504 \longrightarrow 00:26:36.080$  all of those are inflammatory based.

NOTE Confidence: 0.912314036666667

00:26:36.080 --> 00:26:37.100 And remember,

NOTE Confidence: 0.912314036666667

 $00:26:37.100 \longrightarrow 00:26:40.160$  we talked about microbes help produce

NOTE Confidence: 0.912314036666667

 $00:26:40.234 \longrightarrow 00:26:43.419$  those short chain fatty acids which are

NOTE Confidence: 0.912314036666667

00:26:43.419 --> 00:26:46.374 anti inflammatory so they help keep

NOTE Confidence: 0.912314036666667

 $00:26:46.374 \longrightarrow 00:26:48.929$  the inflammation suppressed in our

NOTE Confidence: 0.912314036666667

 $00:26:48.929 \longrightarrow 00:26:52.759$  body and all disease has an inflammatory.

NOTE Confidence: 0.912314036666667 00:26:52.760 --> 00:26:56.320 Factor so.

NOTE Confidence: 0.912314036666667

 $00{:}26{:}56.320 \dashrightarrow 00{:}26{:}59.526$  So many of our maladies that are

NOTE Confidence: 0.912314036666667

 $00:26:59.526 \longrightarrow 00:27:03.090$  we are seeing increasing right now.

NOTE Confidence: 0.912314036666667

 $00:27:03.090 \longrightarrow 00:27:06.184$  Can be linked to an unhealthy microbiome.

NOTE Confidence: 0.937975135833333

 $00:27:08.650 \longrightarrow 00:27:11.930$  OK, what are the contributors

NOTE Confidence: 0.937975135833333

 $00:27:11.930 \longrightarrow 00:27:14.554$  to that unhealthy microbium

NOTE Confidence: 0.937975135833333

 $00:27:14.554 \longrightarrow 00:27:17.958$  antibiotics now antibiotics? R.

NOTE Confidence: 0.937975135833333

 $00:27:17.958 \longrightarrow 00:27:22.962$  So important they actually extended

NOTE Confidence: 0.937975135833333

 $00:27:22.962 \longrightarrow 00:27:26.406$  our lifespan when we started when we

 $00:27:26.406 \longrightarrow 00:27:29.530$  discovered and began to use antibiotics.

NOTE Confidence: 0.937975135833333

 $00:27:29.530 \longrightarrow 00:27:32.605$  The lifespan of of people

NOTE Confidence: 0.937975135833333

 $00:27:32.605 \longrightarrow 00:27:34.450$  went up substantially.

NOTE Confidence: 0.937975135833333

 $00:27:34.450 \longrightarrow 00:27:36.370$  They are really essential,

NOTE Confidence: 0.937975135833333

 $00:27:36.370 \longrightarrow 00:27:38.770$  but they have been overused.

NOTE Confidence: 0.937975135833333

 $00:27:38.770 \longrightarrow 00:27:41.437$  As we all know and we're producing

NOTE Confidence: 0.937975135833333

 $00:27:41.437 \longrightarrow 00:27:44.083$  virulent strains of bacteria that no

NOTE Confidence: 0.937975135833333

 $00{:}27{:}44.083 \dashrightarrow 00{:}27{:}46.463$  longer are responding to antibiotics.

NOTE Confidence: 0.937975135833333

 $00:27:46.470 \longrightarrow 00:27:48.528$  They are in our food system.

NOTE Confidence: 0.937975135833333

 $00:27:48.530 \longrightarrow 00:27:51.470$  They are being used in

NOTE Confidence: 0.937975135833333

 $00:27:51.470 \longrightarrow 00:27:53.822$  feedlots where we come.

NOTE Confidence: 0.937975135833333

 $00:27:53.830 \longrightarrow 00:27:57.010$  They they're used to fatten the

NOTE Confidence: 0.937975135833333

 $00:27:57.010 \longrightarrow 00:28:00.622$  animals in feedlots and they are used

NOTE Confidence: 0.937975135833333

00:28:00.622 --> 00:28:03.863 to keep them from getting sick and

NOTE Confidence: 0.937975135833333

 $00:28:03.960 \longrightarrow 00:28:08.006$  dying because they are in less than

 $00:28:08.006 \longrightarrow 00:28:10.658$  optimal conditions in being raised.

NOTE Confidence: 0.937975135833333

 $00:28:10.658 \longrightarrow 00:28:15.370$  So we have been ingesting an awful lot of

NOTE Confidence: 0.937975135833333

 $00:28:15.370 \longrightarrow 00:28:18.796$  those antibiotics through our lives and.

NOTE Confidence: 0.937975135833333

 $00:28:18.800 \longrightarrow 00:28:21.224$  That their outline that in a

NOTE Confidence: 0.937975135833333

 $00:28:21.224 \longrightarrow 00:28:24.260$  lot of the the food industry,

NOTE Confidence: 0.937975135833333

00:28:24.260 --> 00:28:26.738 poor diet and not enough fiber.

NOTE Confidence: 0.937975135833333

00:28:26.740 --> 00:28:28.847 So if we're not eating enough fiber,

NOTE Confidence: 0.937975135833333

 $00:28:28.850 \longrightarrow 00:28:32.320$  we're actually starving those microbes.

NOTE Confidence: 0.937975135833333

 $00:28:32.320 \longrightarrow 00:28:35.045$  Those beneficial microbes are starving

NOTE Confidence: 0.937975135833333

00:28:35.045 --> 00:28:39.622 in our system and they aren't being able

NOTE Confidence: 0.937975135833333

 $00:28:39.622 \longrightarrow 00:28:43.138$  to reproduce and colonize our intestines.

NOTE Confidence: 0.937975135833333

00:28:43.140 --> 00:28:45.478 The same junk food at the chemicals,

NOTE Confidence: 0.937975135833333

 $00:28:45.480 \longrightarrow 00:28:46.610$  refined carbs,

NOTE Confidence: 0.937975135833333

 $00:28:46.610 \longrightarrow 00:28:48.870$  unhealthy fats, those all.

NOTE Confidence: 0.937975135833333 00:28:48.870 --> 00:28:50.238 Come first, NOTE Confidence: 0.937975135833333

 $00:28:50.238 \longrightarrow 00:28:53.658$  don't serve to feed and

00:28:53.658 --> 00:28:55.710 stimulate those microbes,

NOTE Confidence: 0.937975135833333

 $00{:}28{:}55.710 \dashrightarrow 00{:}28{:}59.222$  and some of those can actually kill the

NOTE Confidence: 0.937975135833333

 $00{:}28{:}59.222 \dashrightarrow 00{:}29{:}02.198$  microbes sugar we talked about that

NOTE Confidence: 0.937975135833333

 $00:29:02.198 \longrightarrow 00:29:05.449$  it stimulates bacteria that we don't

NOTE Confidence: 0.937975135833333

00:29:05.449 --> 00:29:08.159 necessarily want to have thriving.

NOTE Confidence: 0.937975135833333

 $00:29:08.160 \longrightarrow 00:29:12.318$  Artificial sweeteners go into the chemical.

NOTE Confidence: 0.937975135833333

00:29:12.320 --> 00:29:16.485 Realm, and some of those were actually.

NOTE Confidence: 0.937975135833333

 $00:29:16.490 \longrightarrow 00:29:19.796$  Have some some toxicity associated with

NOTE Confidence: 0.937975135833333

 $00:29:19.796 \longrightarrow 00:29:22.660$  them and then environmental toxins.

NOTE Confidence: 0.937975135833333

00:29:22.660 --> 00:29:25.095 You know if you're ingesting

NOTE Confidence: 0.937975135833333

00:29:25.095 --> 00:29:26.069 environmental toxins,

NOTE Confidence: 0.937975135833333

 $00:29:26.070 \longrightarrow 00:29:28.198$  which is really hard not to do.

NOTE Confidence: 0.937975135833333

 $00{:}29{:}28.200 \dashrightarrow 00{:}29{:}32.477$  A lot of that kills our microbiome.

NOTE Confidence: 0.937975135833333

 $00{:}29{:}32.480 \dashrightarrow 00{:}29{:}36.120$  Glyphosate that's in genetically

NOTE Confidence: 0.937975135833333

 $00:29:36.120 \longrightarrow 00:29:37.940$  modified organisms.

 $00:29:37.940 \longrightarrow 00:29:39.390$  Glyphosate is used on some

NOTE Confidence: 0.937975135833333

 $00:29:39.390 \longrightarrow 00:29:40.840$  of the fields for that,

NOTE Confidence: 0.937975135833333

 $00:29:40.840 \longrightarrow 00:29:44.296$  and actually is the number one.

NOTE Confidence: 0.937975135833333

 $00:29:44.300 \longrightarrow 00:29:47.904$  Herbicide used out there

NOTE Confidence: 0.937975135833333

 $00:29:47.904 \longrightarrow 00:29:50.607$  and pesticide herbicide.

NOTE Confidence: 0.937975135833333 00:29:50.610 --> 00:29:52.989 It is dumb. NOTE Confidence: 0.937975135833333

 $00:29:52.989 \longrightarrow 00:29:58.994$  It is found on in soil infants water.

NOTE Confidence: 0.937975135833333

 $00:29:58.994 \longrightarrow 00:30:01.718$  It is everywhere and it was

NOTE Confidence: 0.937975135833333

 $00{:}30{:}01.718 \longrightarrow 00{:}30{:}04.400$  first patented as an antibiotic.

NOTE Confidence: 0.937975135833333

 $00:30:04.400 \longrightarrow 00:30:08.466$  So it is really causing some

NOTE Confidence: 0.937975135833333

 $00{:}30{:}08.466 \dashrightarrow 00{:}30{:}12.156$  problems with our our microbiome.

NOTE Confidence: 0.937975135833333

 $00:30:12.160 \longrightarrow 00:30:14.996$  So the only way to it,

NOTE Confidence: 0.937975135833333

 $00:30:14.996 \longrightarrow 00:30:16.376$  well, it's hard to avoid,

NOTE Confidence: 0.937975135833333

 $00:30:16.380 \longrightarrow 00:30:18.180$  but eating organically where

NOTE Confidence: 0.937975135833333

 $00:30:18.180 \longrightarrow 00:30:21.380$  possible is a way to avoid that.

NOTE Confidence: 0.937975135833333

 $00:30:21.380 \longrightarrow 00:30:23.459$  So or go into a local farmers.

 $00:30:23.460 \longrightarrow 00:30:24.880$  Market that doesn't have

NOTE Confidence: 0.937975135833333

 $00:30:24.880 \longrightarrow 00:30:26.300$  to be labeled organic,

NOTE Confidence: 0.937975135833333

 $00:30:26.300 \longrightarrow 00:30:29.308$  but you can ask do you use glyphosate

NOTE Confidence: 0.937975135833333

 $00:30:29.308 \longrightarrow 00:30:33.086$  and if not then that's a good farm to

NOTE Confidence: 0.937975135833333

 $00:30:33.086 \longrightarrow 00:30:35.890$  support or growing your own food or.

NOTE Confidence: 0.937975135833333

00:30:35.890 --> 00:30:37.609 We'll talk about that more in a little while,

NOTE Confidence: 0.937975135833333

 $00:30:37.610 \longrightarrow 00:30:40.054$  and certain medications can

NOTE Confidence: 0.937975135833333

00:30:40.054 --> 00:30:41.887 disrupt the microbiome,

NOTE Confidence: 0.937975135833333

 $00:30:41.890 \longrightarrow 00:30:43.408$  but they can also save lives,

NOTE Confidence: 0.937975135833333

 $00:30:43.410 \longrightarrow 00:30:46.119$  so it's, you know we have to

NOTE Confidence: 0.937975135833333

 $00:30:46.119 \longrightarrow 00:30:49.180$  find ways to stimulate and feed.

NOTE Confidence: 0.937975135833333

 $00:30:49.180 \longrightarrow 00:30:52.810$  The microbiome, if we're on medications,

NOTE Confidence: 0.937975135833333

 $00{:}30{:}52.810 \dashrightarrow 00{:}30{:}55.200$  and I can't stress enough,

NOTE Confidence: 0.937975135833333

 $00:30:55.200 \longrightarrow 00:30:57.584$  this last one, stress,

NOTE Confidence: 0.937975135833333

 $00:30:57.584 \longrightarrow 00:30:58.808$  stress, stress,

00:30:58.808 --> 00:31:04.460 stress is it is so difficult to stay healthy

NOTE Confidence: 0.937975135833333

 $00:31:04.584 \longrightarrow 00:31:09.777$  when we have no way of managing our stress.

NOTE Confidence: 0.937975135833333

00:31:09.780 --> 00:31:12.916 I strongly recommend finding

NOTE Confidence: 0.937975135833333

 $00:31:12.916 \longrightarrow 00:31:16.836$  ways to to manage that.

NOTE Confidence: 0.937975135833333

 $00:31:16.840 \longrightarrow 00:31:18.554$  Meditation, yoga,

NOTE Confidence: 0.937975135833333 00:31:18.554 --> 00:31:19.411 walking. NOTE Confidence: 0.937975135833333

00:31:19.411 --> 00:31:22.839 Hanging out with friends,

NOTE Confidence: 0.937975135833333

00:31:22.840 --> 00:31:25.198 watching something funny,

NOTE Confidence: 0.937975135833333

 $00{:}31{:}25.198 \dashrightarrow 00{:}31{:}27.556$  reading something funny.

NOTE Confidence: 0.937975135833333

00:31:27.560 --> 00:31:30.836 Anything that will reduce your stress levels,

NOTE Confidence: 0.937975135833333

 $00{:}31{:}30.840 \dashrightarrow 00{:}31{:}34.627$  finding ways to balance some of that.

NOTE Confidence: 0.937975135833333

 $00:31:34.630 \longrightarrow 00:31:36.754$  Some of the crazy.

NOTE Confidence: 0.937975135833333

 $00:31:36.754 \longrightarrow 00:31:39.409$  Schedules that we all have.

NOTE Confidence: 0.881162204285714

00:31:39.410 --> 00:31:43.939 It's really, really important and and it.

NOTE Confidence: 0.881162204285714

00:31:43.940 --> 00:31:46.754 Brings benefit to not just the microbiome,

NOTE Confidence: 0.881162204285714

 $00:31:46.760 \longrightarrow 00:31:50.750$  but in all aspects of our lives. Uhm?

00:31:53.300 --> 00:31:55.478 Alright, let's get to some of the good stuff.

NOTE Confidence: 0.891892404444445

 $00:31:55.480 \longrightarrow 00:32:01.227$  So how do we strengthen the microbiome?

NOTE Confidence: 0.891892404444445

 $00:32:01.230 \longrightarrow 00:32:04.345$  Let's look at foods high fiber foods.

NOTE Confidence: 0.89189240444445

 $00:32:04.350 \longrightarrow 00:32:05.568$  You hear this all the time,

NOTE Confidence: 0.891892404444445

00:32:05.570 --> 00:32:08.830 so you need a diet rich in fiber and and

NOTE Confidence: 0.89189240444445

00:32:08.918 --> 00:32:11.934 I don't think we ever really say why.

NOTE Confidence: 0.891892404444445

 $00:32:11.940 \longrightarrow 00:32:13.802$  But when we have a lot of

NOTE Confidence: 0.891892404444445

 $00:32:13.802 \longrightarrow 00:32:15.784$  fiber in our food, that's food.

NOTE Confidence: 0.891892404444445

 $00{:}32{:}15.784 \dashrightarrow 00{:}32{:}18.423$  That's the part that can't be digested

NOTE Confidence: 0.891892404444445

 $00{:}32{:}18.430 \dashrightarrow 00{:}32{:}20.790$  from our food and what it does is

NOTE Confidence: 0.891892404444445

 $00:32:20.790 \longrightarrow 00:32:22.921$  it actually acts like a almost like

NOTE Confidence: 0.891892404444445

00:32:22.921 --> 00:32:25.249 a scrubber as it goes through your

NOTE Confidence: 0.891892404444445

 $00{:}32{:}25.249 \dashrightarrow 00{:}32{:}27.607$  intestines it it cleans things out.

NOTE Confidence: 0.891892404444445

 $00:32:27.610 \longrightarrow 00:32:29.662$  It feeds your microbes.

NOTE Confidence: 0.891892404444445

 $00:32:29.662 \longrightarrow 00:32:33.760$  Your microbes help too. Uhm?

 $00:32:33.760 \longrightarrow 00:32:36.280$  Hang on to the toxins and get

NOTE Confidence: 0.891892404444445

 $00:32:36.280 \longrightarrow 00:32:38.739$  them out and the more fiber.

NOTE Confidence: 0.891892404444445

 $00:32:38.740 \longrightarrow 00:32:41.494$  And I'm not talking about so much that you

NOTE Confidence: 0.891892404444445

00:32:41.494 --> 00:32:44.396 end up with an irritated intestinal tract,

NOTE Confidence: 0.891892404444445

 $00:32:44.400 \longrightarrow 00:32:47.406$  but fiber where it's moving your

NOTE Confidence: 0.891892404444445

 $00:32:47.406 \longrightarrow 00:32:50.585$  bowels where you have a healthy

NOTE Confidence: 0.891892404444445

 $00:32:50.585 \longrightarrow 00:32:52.749$  bowel movement every day.

NOTE Confidence: 0.891892404444445

 $00:32:52.750 \longrightarrow 00:32:55.202$  That is really important.

NOTE Confidence: 0.891892404444445

 $00{:}32{:}55.202 \dashrightarrow 00{:}32{:}58.788$  It moves things through and it

NOTE Confidence: 0.89189240444445

 $00:32:58.788 \longrightarrow 00:33:01.378$  has health implications that are

NOTE Confidence: 0.891892404444445

 $00:33:01.378 \longrightarrow 00:33:04.080$  really far reaching so fiber.

NOTE Confidence: 0.891892404444445

 $00:33:04.080 \longrightarrow 00:33:07.816$  Is important and we don't have to take

NOTE Confidence: 0.891892404444445

 $00:33:07.816 \longrightarrow 00:33:10.396$  necessarily a supplement for that.

NOTE Confidence: 0.891892404444445

00:33:10.396 --> 00:33:12.364 I would say you're better eating

NOTE Confidence: 0.89189240444445

 $00:33:12.364 \longrightarrow 00:33:14.554$  fruits and vegetables and nuts and

NOTE Confidence: 0.89189240444445

 $00:33:14.554 \longrightarrow 00:33:16.384$  seeds and legumes and mushrooms

 $00:33:16.384 \longrightarrow 00:33:18.237$  and herbs and healthy fats,

NOTE Confidence: 0.891892404444445

 $00:33:18.240 \longrightarrow 00:33:20.232$  because you're getting all those other

NOTE Confidence: 0.891892404444445

 $00:33:20.232 \longrightarrow 00:33:22.280$  compounds that are in those foods.

NOTE Confidence: 0.891892404444445

 $00:33:22.280 \longrightarrow 00:33:27.596$  Those higher order compounds that are.

NOTE Confidence: 0.891892404444445

 $00:33:27.600 \longrightarrow 00:33:31.002$  That are like medicine in our in our food.

NOTE Confidence: 0.891892404444445

00:33:31.010 --> 00:33:35.140 So really important and the more variety

NOTE Confidence: 0.891892404444445

 $00:33:35.140 \longrightarrow 00:33:39.649$  of fruits and vegetables that you eat,

NOTE Confidence: 0.891892404444445

00:33:39.650 --> 00:33:41.050 especially vegetables.

NOTE Confidence: 0.862949328571428

 $00{:}33{:}43.190 \dashrightarrow 00{:}33{:}45.388$  The healthier you are going to be,

NOTE Confidence: 0.862949328571428

00:33:45.390 --> 00:33:49.260 we tend to get very narrow in our food

NOTE Confidence: 0.862949328571428

00:33:49.260 --> 00:33:51.518 choices, and they've done studies

NOTE Confidence: 0.862949328571428

00:33:51.518 --> 00:33:54.713 with kids where they find they eat

NOTE Confidence: 0.862949328571428

 $00{:}33{:}54.713 \dashrightarrow 00{:}33{:}57.633$  the same 10 foods all week and it

NOTE Confidence: 0.862949328571428

 $00:33:57.633 \longrightarrow 00:34:00.286$  really doesn't vary and so we always

NOTE Confidence: 0.862949328571428

 $00:34:00.286 \longrightarrow 00:34:02.630$  like to say if you go to a farm,

 $00:34:02.630 \longrightarrow 00:34:04.022$  try some new things,

NOTE Confidence: 0.862949328571428

00:34:04.022 --> 00:34:05.762 things you've never tried before,

NOTE Confidence: 0.862949328571428

 $00:34:05.770 \longrightarrow 00:34:08.236$  try to get expensive in the

NOTE Confidence: 0.862949328571428

00:34:08.236 --> 00:34:10.981 variety of things you eat because

NOTE Confidence: 0.862949328571428

 $00:34:10.981 \longrightarrow 00:34:12.997$  they all have different.

NOTE Confidence: 0.862949328571428

 $00{:}34{:}13.000 \dashrightarrow 00{:}34{:}16.960$  Plant medicines in them that act as dumb.

NOTE Confidence: 0.862949328571428

 $00{:}34{:}16.960 \dashrightarrow 00{:}34{:}18.523$  As is deep.

NOTE Confidence: 0.862949328571428

 $00:34:18.523 \longrightarrow 00:34:20.607$  Nutrition for us so.

NOTE Confidence: 0.923671967142857

 $00:34:22.770 \longrightarrow 00:34:24.590$  Well, let's go back to the list.

NOTE Confidence: 0.923671967142857

 $00:34:24.590 \longrightarrow 00:34:28.600$  Healthy fats and animal products.

NOTE Confidence: 0.923671967142857

00:34:28.600 --> 00:34:29.924 When you're eating those,

NOTE Confidence: 0.923671967142857

00:34:29.924 --> 00:34:31.248 you really you know,

NOTE Confidence: 0.923671967142857

 $00:34:31.250 \longrightarrow 00:34:33.875$  want to get those that have been

NOTE Confidence: 0.923671967142857

 $00:34:33.875 \longrightarrow 00:34:35.522$  eating what they're meant to

NOTE Confidence: 0.923671967142857

 $00:34:35.522 \longrightarrow 00:34:37.430$  eat so that they are healthy.

NOTE Confidence: 0.923671967142857

 $00:34:37.430 \longrightarrow 00:34:38.838$  Because if the foods

00:34:38.838 --> 00:34:40.246 you're eating or healthy,

NOTE Confidence: 0.923671967142857

 $00{:}34{:}40.250 \dashrightarrow 00{:}34{:}43.050$  you're going to be healthy and it

NOTE Confidence: 0.923671967142857

00:34:43.050 --> 00:34:45.258 reduces your chance of of having

NOTE Confidence: 0.923671967142857

 $00:34:45.258 \longrightarrow 00:34:47.421$  a lot of toxins in the food.

NOTE Confidence: 0.923671967142857

 $00:34:47.430 \longrightarrow 00:34:49.378$  Organic, where you can.

NOTE Confidence: 0.923671967142857

00:34:49.378 --> 00:34:51.326 There is an organization

NOTE Confidence: 0.923671967142857

00:34:51.330 --> 00:34:52.836 called Environmental.

NOTE Confidence: 0.923671967142857

 $00{:}34{:}52.836 \dashrightarrow 00{:}34{:}56.831$  Working group or EWG and UM if

NOTE Confidence: 0.923671967142857

 $00:34:56.831 \longrightarrow 00:34:59.120$  you go to their site they have

NOTE Confidence: 0.923671967142857

 $00:34:59.209 \longrightarrow 00:35:01.379$  something called the clean 15

NOTE Confidence: 0.923671967142857

00:35:01.379 --> 00:35:04.451 and The Dirty Dozen and it lists

NOTE Confidence: 0.923671967142857

 $00:35:04.451 \longrightarrow 00:35:06.905$  the foods that they every year.

NOTE Confidence: 0.923671967142857

 $00{:}35{:}06.910 \dashrightarrow 00{:}35{:}10.795$  They do tests and they find which.

NOTE Confidence: 0.923671967142857

 $00:35:10.800 \longrightarrow 00:35:12.790$  Fruits and vegetables have the

NOTE Confidence: 0.923671967142857

 $00:35:12.790 \longrightarrow 00:35:15.172$  highest level of toxins and those

 $00:35:15.172 \longrightarrow 00:35:17.426$  are the ones who say if you're

NOTE Confidence: 0.923671967142857

 $00:35:17.426 \longrightarrow 00:35:19.450$  limited on what you can spend.

NOTE Confidence: 0.923671967142857

 $00:35:19.450 \longrightarrow 00:35:22.546$  Buy those organically if you can,

NOTE Confidence: 0.923671967142857

 $00:35:22.550 \longrightarrow 00:35:27.023$  or go to a farm that has good practices.

NOTE Confidence: 0.923671967142857

 $00:35:27.030 \longrightarrow 00:35:30.414$  And then the clean 15 are the

NOTE Confidence: 0.923671967142857

 $00:35:30.414 \longrightarrow 00:35:33.693$  ones that you really you can eat

NOTE Confidence: 0.923671967142857

 $00:35:33.693 \longrightarrow 00:35:36.508$  without worrying about the organic.

NOTE Confidence: 0.923671967142857

 $00:35:36.510 \longrightarrow 00:35:37.569$  Label on them.

NOTE Confidence: 0.923671967142857

 $00{:}35{:}37.569 \dashrightarrow 00{:}35{:}40.040$  OK, you can grow your own food,

NOTE Confidence: 0.923671967142857

 $00:35:40.040 \longrightarrow 00:35:42.432$  even if it's just a couple

NOTE Confidence: 0.923671967142857

 $00:35:42.432 \longrightarrow 00:35:44.364$  of peas out in the garden.

NOTE Confidence: 0.923671967142857

 $00:35:44.370 \longrightarrow 00:35:46.038$  A couple of heads of lettuce.

NOTE Confidence: 0.923671967142857

 $00:35:46.040 \longrightarrow 00:35:48.146$  All of that is so great.

NOTE Confidence: 0.923671967142857

 $00:35:48.150 \longrightarrow 00:35:51.006$  We know that there is a bacteria

NOTE Confidence: 0.923671967142857

 $00:35:51.006 \longrightarrow 00:35:54.368$  in the soil that mimics serotonin.

NOTE Confidence: 0.923671967142857

 $00:35:54.370 \longrightarrow 00:35:56.050$  Serotonin is one of those

 $00:35:56.050 \longrightarrow 00:35:58.050$  neurotransmitters that makes you feel good,

NOTE Confidence: 0.923671967142857

 $00:35:58.050 \longrightarrow 00:36:00.168$  and there are lots of benefits

NOTE Confidence: 0.923671967142857

 $00:36:00.168 \longrightarrow 00:36:02.230$  to being in a garden.

NOTE Confidence: 0.923671967142857

 $00:36:02.230 \longrightarrow 00:36:06.157$  We use garden therapy everywhere in prisons,

NOTE Confidence: 0.923671967142857

 $00:36:06.160 \longrightarrow 00:36:08.210$  in schools and nursing homes.

NOTE Confidence: 0.923671967142857

 $00:36:08.210 \longrightarrow 00:36:11.850$  In it's used because it.

NOTE Confidence: 0.923671967142857

 $00:36:11.850 \longrightarrow 00:36:17.532$  It really helps your microbiome and

NOTE Confidence: 0.923671967142857

 $00:36:17.532 \longrightarrow 00:36:20.970$  your thumb. I think your mental health.

NOTE Confidence: 0.923671967142857

 $00:36:20.970 \longrightarrow 00:36:23.376$  I think it's just a really

NOTE Confidence: 0.923671967142857

 $00:36:23.376 \longrightarrow 00:36:24.980$  important thing to do.

NOTE Confidence: 0.923671967142857

00:36:24.980 --> 00:36:28.040 And then again, fermented foods,

NOTE Confidence: 0.923671967142857

 $00:36:28.040 \longrightarrow 00:36:30.074$  so I think I'm gonna say

NOTE Confidence: 0.923671967142857

 $00:36:30.074 \longrightarrow 00:36:31.780$  fermented foods till the end.

NOTE Confidence: 0.923671967142857

 $00:36:31.780 \longrightarrow 00:36:34.668$  But I do just want to say here.

NOTE Confidence: 0.923671967142857

00:36:34.670 --> 00:36:37.020 Every culture.

 $00:36:37.020 \longrightarrow 00:36:41.310$  Every culture has fermented foods.

NOTE Confidence: 0.923671967142857

 $00:36:41.310 \longrightarrow 00:36:43.474$  Fermented foods have been

NOTE Confidence: 0.923671967142857

 $00:36:43.474 \longrightarrow 00:36:46.179$  used for thousands of years

NOTE Confidence: 0.923671967142857

 $00:36:46.179 \longrightarrow 00:36:48.966$  when we have foods that are.

NOTE Confidence: 0.923671967142857

 $00:36:48.970 \longrightarrow 00:36:51.000$  Perishable fruits and vegetables and

NOTE Confidence: 0.923671967142857

 $00:36:51.000 \longrightarrow 00:36:53.420$  meats and fish things like that.

NOTE Confidence: 0.923671967142857

 $00:36:53.420 \longrightarrow 00:36:55.340$  Before we had refrigeration,

NOTE Confidence: 0.923671967142857

 $00:36:55.340 \longrightarrow 00:36:58.590$  people had to have a way of.

NOTE Confidence: 0.923671967142857

 $00:36:58.590 \longrightarrow 00:37:00.306$  Preserving that to keep it from

NOTE Confidence: 0.923671967142857

 $00:37:00.306 \longrightarrow 00:37:02.210$  going bad before they could eat it,

NOTE Confidence: 0.923671967142857

 $00:37:02.210 \longrightarrow 00:37:04.718$  especially when they depended on that.

NOTE Confidence: 0.923671967142857

 $00:37:04.720 \longrightarrow 00:37:05.818$  At the end of the season.

NOTE Confidence: 0.923671967142857

 $00:37:05.820 \longrightarrow 00:37:08.928$  Let's say you you grew a field

NOTE Confidence: 0.923671967142857

 $00:37:08.928 \longrightarrow 00:37:11.398$  of cabbage and at the end of the

NOTE Confidence: 0.923671967142857

00:37:11.398 --> 00:37:13.577 season when it was time to pick it,

NOTE Confidence: 0.923671967142857

 $00{:}37{:}13.580 \dashrightarrow 00{:}37{:}15.218$  you can only eat so much cabbage.

 $00:37:15.220 \longrightarrow 00:37:17.060$  So what do you do with all that

NOTE Confidence: 0.923671967142857

 $00:37:17.060 \longrightarrow 00:37:18.519$  so it doesn't go bad?

NOTE Confidence: 0.923671967142857

00:37:18.520 --> 00:37:22.416 They begin to ferment it and make sauerkraut,

NOTE Confidence: 0.923671967142857

 $00:37:22.420 \longrightarrow 00:37:24.751$  and they can take that and have

NOTE Confidence: 0.923671967142857

 $00:37:24.751 \longrightarrow 00:37:26.939$  that last for an entire year.

NOTE Confidence: 0.923671967142857

 $00:37:26.940 \longrightarrow 00:37:28.970$  And when you do that.

NOTE Confidence: 0.923671967142857

 $00:37:28.970 \longrightarrow 00:37:31.910$  It increases the nutritional content.

NOTE Confidence: 0.923671967142857

 $00:37:31.910 \longrightarrow 00:37:35.333$  It helps to pre digest it and

NOTE Confidence: 0.923671967142857

 $00:37:35.333 \longrightarrow 00:37:38.032$  it's teeming with microbes that

NOTE Confidence: 0.923671967142857

00:37:38.032 --> 00:37:41.404 are beneficial for us and it's

NOTE Confidence: 0.923671967142857

 $00:37:41.404 \longrightarrow 00:37:43.350$  very safe and stable.

NOTE Confidence: 0.923671967142857

 $00{:}37{:}43.350 \dashrightarrow 00{:}37{:}45.810$  People make Crocs barrels of that

NOTE Confidence: 0.923671967142857

 $00{:}37{:}45.810 \dashrightarrow 00{:}37{:}48.408$  and put it into their basement

NOTE Confidence: 0.923671967142857

00:37:48.410 --> 00:37:50.162 and it got them through the

NOTE Confidence: 0.923671967142857

 $00:37:50.162 \longrightarrow 00:37:52.210$  winters in but high in vitamin C.

 $00:37:52.210 \longrightarrow 00:37:53.884$  So in the deep winter when

NOTE Confidence: 0.923671967142857

 $00:37:53.884 \longrightarrow 00:37:55.000$  there weren't a lot

NOTE Confidence: 0.9197988

 $00:37:55.060 \longrightarrow 00:37:57.349$  of things you could eat these fermented

NOTE Confidence: 0.9197988

 $00:37:57.349 \longrightarrow 00:37:59.812$  foods and stay healthy really important.

NOTE Confidence: 0.9197988

 $00:37:59.812 \longrightarrow 00:38:02.398$  And some of our best,

NOTE Confidence: 0.9197988

 $00:38:02.398 \longrightarrow 00:38:05.388$  most delicious foods are fermented.

NOTE Confidence: 0.9197988

 $00{:}38{:}05.390 \dashrightarrow 00{:}38{:}06.923$  So I think right now I'll just

NOTE Confidence: 0.9197988

 $00:38:06.923 \longrightarrow 00:38:08.431$  give you the list even though

NOTE Confidence: 0.9197988

 $00{:}38{:}08.431 \dashrightarrow 00{:}38{:}10.286$  we're going to talk about it again.

NOTE Confidence: 0.9197988

 $00:38:10.290 \longrightarrow 00:38:13.258$  Things like cheese hard

NOTE Confidence: 0.9197988

 $00{:}38{:}13.258 \dashrightarrow 00{:}38{:}17.298$  cheeses are fermented we have.

NOTE Confidence: 0.9197988

00:38:17.298 --> 00:38:20.946 Sauerkraut we have kimchi,

NOTE Confidence: 0.9197988

 $00:38:20.946 \longrightarrow 00:38:27.498$  which is spicy cabbage and other vegetables.

NOTE Confidence: 0.9197988

 $00:38:27.500 \longrightarrow 00:38:31.036$  We have tempeh and I'm trying

NOTE Confidence: 0.9197988

 $00:38:31.036 \longrightarrow 00:38:33.580$  to save the good ones for last,

NOTE Confidence: 0.9197988

 $00{:}38{:}33.580 \dashrightarrow 00{:}38{:}37.306$  so going through the rest Nisou.

00:38:37.310 --> 00:38:43.820 Chocolate, coffee, wine, beer, kombucha.

NOTE Confidence: 0.9197988

 $00{:}38{:}43.820 \dashrightarrow 00{:}38{:}47.006$  The list goes on and on.

NOTE Confidence: 0.9197988

00:38:47.010 --> 00:38:51.318 Those foods are all fermented and

NOTE Confidence: 0.9197988

00:38:51.318 --> 00:38:54.190 increased their nutritional value,

NOTE Confidence: 0.9197988

 $00:38:54.190 \longrightarrow 00:38:56.929$  nutrient density, and.

NOTE Confidence: 0.9197988

00:38:56.929 --> 00:39:01.494 Shelf life so really important?

NOTE Confidence: 0.9197988

 $00:39:01.500 \longrightarrow 00:39:02.150$  OK.

NOTE Confidence: 0.88833433

 $00:39:04.360 \longrightarrow 00:39:07.132$  Oh, so here's just a reminder

NOTE Confidence: 0.88833433

 $00:39:07.132 \longrightarrow 00:39:09.300$  of eating things in season.

NOTE Confidence: 0.88833433

 $00:39:09.300 \longrightarrow 00:39:11.425$  This is a beautiful Peach

NOTE Confidence: 0.88833433

 $00:39:11.425 \longrightarrow 00:39:13.248$  tree from this summer.

NOTE Confidence: 0.853633052

 $00:39:17.780 \longrightarrow 00:39:19.634$  Colorful vegetables these

NOTE Confidence: 0.853633052

 $00{:}39{:}19.634 \dashrightarrow 00{:}39{:}22.154$  are carrots and potatoes.

NOTE Confidence: 0.853633052

 $00:39:22.154 \longrightarrow 00:39:26.648$  These are purple potatoes and red outside

NOTE Confidence: 0.853633052

 $00:39:26.648 \longrightarrow 00:39:30.196$  potatoes and the creamy white inside.

 $00:39:30.200 \longrightarrow 00:39:33.110$  These are the different colored carrots.

NOTE Confidence: 0.853633052

 $00{:}39{:}33.110 --> 00{:}39{:}33.866 \ \mathrm{Brussels \ sprouts}.$ 

NOTE Confidence: 0.853633052

 $00:39:33.866 \longrightarrow 00:39:36.890$  All of those things are high in fiber

NOTE Confidence: 0.853633052

 $00:39:36.962 \longrightarrow 00:39:39.461$  and this time of year they're all

NOTE Confidence: 0.853633052

00:39:39.461 --> 00:39:41.815 coming into season and fresh at the

NOTE Confidence: 0.853633052

00:39:41.815 --> 00:39:44.760 farms and really much more nutrient.

NOTE Confidence: 0.853633052

00:39:44.760 --> 00:39:47.658 Dance for us.

NOTE Confidence: 0.853633052

 $00:39:47.660 \longrightarrow 00:39:49.865$  And and we tend to crave these

NOTE Confidence: 0.853633052

 $00:39:49.865 \longrightarrow 00:39:52.024$  things this time of year because

NOTE Confidence: 0.853633052

 $00:39:52.024 \longrightarrow 00:39:54.304$  of the temperatures going down and.

NOTE Confidence: 0.853633052

00:39:54.310 --> 00:39:56.990 And our bodies craving warmth.

NOTE Confidence: 0.853633052

 $00:39:56.990 \longrightarrow 00:39:59.990$  Here's another picture with some herbs in it,

NOTE Confidence: 0.853633052

00:39:59.990 --> 00:40:00.934 you know,

NOTE Confidence: 0.853633052

 $00:40:00.934 \longrightarrow 00:40:04.238$  and the garlic such a powerhouse food

NOTE Confidence: 0.853633052

 $00:40:04.238 \longrightarrow 00:40:08.514$  and sage and thyme and Brussels sprouts and.

NOTE Confidence: 0.853633052

 $00:40:08.520 \longrightarrow 00:40:13.210$  I'm carrots and potatoes OK.

 $00:40:13.210 \longrightarrow 00:40:17.428$  Legumes, beans and seeds and nuts,

NOTE Confidence: 0.853633052

 $00:40:17.430 \longrightarrow 00:40:22.484$  and those beautiful foods and then mushrooms.

NOTE Confidence: 0.853633052

 $00:40:22.490 \longrightarrow 00:40:23.706$  You don't have to go out and forage.

NOTE Confidence: 0.853633052

 $00:40:23.710 \longrightarrow 00:40:26.062$  I just loved this photo of these

NOTE Confidence: 0.853633052

 $00:40:26.062 \longrightarrow 00:40:27.770$  mushrooms growing up this tree.

NOTE Confidence: 0.853633052

00:40:27.770 --> 00:40:32.270 This is a local picture and this time of

NOTE Confidence: 0.853633052

 $00:40:32.270 \longrightarrow 00:40:34.670$  year the mushrooms are prolific outdoors

NOTE Confidence: 0.853633052

 $00:40:34.748 \longrightarrow 00:40:37.485$  but also local farmers now are growing.

NOTE Confidence: 0.853633052

 $00:40:37.490 \longrightarrow 00:40:40.450$  A lot of mushrooms and so you could go to

NOTE Confidence: 0.853633052

 $00{:}40{:}40.526 \to 00{:}40{:}43.490$  farmers markets and other grocery stores.

NOTE Confidence: 0.853633052

 $00:40:43.490 \longrightarrow 00:40:45.980$  And find local mushrooms that

NOTE Confidence: 0.853633052

 $00:40:45.980 \longrightarrow 00:40:49.050$  have been grown in the area.

NOTE Confidence: 0.853633052

 $00:40:49.050 \longrightarrow 00:40:52.230$  Sell. What else helps?

NOTE Confidence: 0.853633052

 $00:40:52.230 \longrightarrow 00:40:53.870$  We've talked about lifestyle,

NOTE Confidence: 0.853633052

 $00:40:53.870 \longrightarrow 00:40:55.380$  so playing in the dirt,

 $00:40:55.380 \longrightarrow 00:40:59.178$  we said gardening really helps too.

NOTE Confidence: 0.853633052

00:40:59.180 --> 00:41:00.740 Enhance your microbiome,

NOTE Confidence: 0.853633052

 $00:41:00.740 \longrightarrow 00:41:01.780$  but kids.

NOTE Confidence: 0.853633052

00:41:01.780 --> 00:41:04.476 Being able to play in the dirt and

NOTE Confidence: 0.853633052

 $00:41:04.476 \longrightarrow 00:41:07.459$  get dirty is so important for their

NOTE Confidence: 0.853633052

 $00{:}41{:}07.459 \dashrightarrow 00{:}41{:}10.287$  immune system and training their their

NOTE Confidence: 0.853633052

 $00{:}41{:}10.287 {\:{\circ}{\circ}{\circ}}>00{:}41{:}12.907$  microbiome and their immune system.

NOTE Confidence: 0.853633052

00:41:12.910 --> 00:41:15.990 Exercising there isn't really anything.

NOTE Confidence: 0.853633052

00:41:15.990 --> 00:41:19.158 Exercise doesn't help.

NOTE Confidence: 0.853633052

00:41:19.160 --> 00:41:22.586 Yeah, eating organic food where possible,

NOTE Confidence: 0.853633052

 $00:41:22.590 \longrightarrow 00:41:23.406$  avoiding.

NOTE Confidence: 0.853633052

 $00:41:23.406 \longrightarrow 00:41:26.670$  Chemical toxins were possible

NOTE Confidence: 0.853633052

 $00:41:26.670 \longrightarrow 00:41:29.934$  and again reducing stress.

NOTE Confidence: 0.853633052

00:41:29.940 --> 00:41:33.972 And hanging out with with family and friends,

NOTE Confidence: 0.853633052

00:41:33.972 --> 00:41:36.730 which hasn't been easy this last year,

NOTE Confidence: 0.853633052

 $00:41:36.730 \longrightarrow 00:41:38.008$  but really important.

00:41:38.008 --> 00:41:41.600 And I think even zoom has a place

NOTE Confidence: 0.853633052

 $00{:}41{:}41.600 \dashrightarrow 00{:}41{:}44.205$  during during these last year.

NOTE Confidence: 0.853633052

 $00:41:44.210 \longrightarrow 00:41:46.925$  So diet and lifestyle contribute

NOTE Confidence: 0.853633052

 $00:41:46.925 \longrightarrow 00:41:49.097$  to a healthy microbiome.

NOTE Confidence: 0.929488182857143

 $00:41:51.510 \longrightarrow 00:41:53.764$  So here are some of the summaries.

NOTE Confidence: 0.929488182857143

00:41:53.770 --> 00:41:57.256 UM, it's acquired through our lifetimes

NOTE Confidence: 0.929488182857143

00:41:57.256 --> 00:42:01.352 and is influenced by our diets and

NOTE Confidence: 0.929488182857143

 $00{:}42{:}01.352 \dashrightarrow 00{:}42{:}04.110$  lifestyle healthy microbes make our

NOTE Confidence: 0.929488182857143

 $00:42:04.110 \longrightarrow 00:42:06.310$  neurotransmitters that are responsible

NOTE Confidence: 0.929488182857143

 $00:42:06.310 \longrightarrow 00:42:09.905$  for mood and sleep healthy microbes make

NOTE Confidence: 0.929488182857143

 $00:42:09.905 \longrightarrow 00:42:13.230$  nutrients that are essential for our health.

NOTE Confidence: 0.929488182857143

 $00:42:13.230 \longrightarrow 00:42:15.370$  Healthy microbes keep our

NOTE Confidence: 0.929488182857143

 $00{:}42{:}15.370 \dashrightarrow 00{:}42{:}16.975$  immune systems healthy.

NOTE Confidence: 0.929488182857143

 $00:42:16.980 \longrightarrow 00:42:19.266$  Eating a diet rich in vegetables,

NOTE Confidence: 0.929488182857143

00:42:19.270 --> 00:42:23.570 fruits, nuts, seeds, legumes, heaps.

 $00:42:23.570 \longrightarrow 00:42:25.745$  Alpha didn't didn't check that

NOTE Confidence: 0.929488182857143

 $00:42:25.745 \longrightarrow 00:42:28.865$  one helps to feed the microbes we

NOTE Confidence: 0.929488182857143

 $00:42:28.865 \longrightarrow 00:42:32.170$  want to flourish in our guts. OK.

NOTE Confidence: 0.82089115

00:42:35.790 --> 00:42:36.640 All right?

NOTE Confidence: 0.32195103

00:42:41.480 --> 00:42:48.620 So. Let's go to, UM, Nicole,

NOTE Confidence: 0.32195103

 $00:42:48.620 \longrightarrow 00:42:52.729$  do we have? Thank you Joan.

NOTE Confidence: 0.901448440909091

 $00:42:52.740 \longrightarrow 00:42:53.988$  Yeah we do have some questions

NOTE Confidence: 0.901448440909091

 $00:42:53.988 \longrightarrow 00:42:55.070$  if you're ready for them.

NOTE Confidence: 0.901448440909091

00:42:55.070 --> 00:42:57.318 We have some great questions in the Q&A.

NOTE Confidence: 0.901448440909091

00:42:57.320 --> 00:43:01.088 OK good good. OK so I am going to.

NOTE Confidence: 0.81669798

00:43:01.140 --> 00:43:05.490 I'm going to stop sharing my shirt. Sure. OK,

NOTE Confidence: 0.895819823333333

00:43:05.800 --> 00:43:09.932 so we have some very specific but great

NOTE Confidence: 0.895819823333333

 $00:43:09.932 \longrightarrow 00:43:11.510$  questions that get into some of the

NOTE Confidence: 0.895819823333333

 $00{:}43{:}11.510 \dashrightarrow 00{:}43{:}13.570$  topics that you start that you introduced.

NOTE Confidence: 0.895819823333333

 $00:43:13.570 \longrightarrow 00:43:17.226$  So we first have someone asking about

NOTE Confidence: 0.895819823333333

 $00:43:17.226 \longrightarrow 00:43:19.741$  medications and the effects that

 $00:43:19.741 \longrightarrow 00:43:22.250$  potential effects of medications.

NOTE Confidence: 0.895819823333333

 $00:43:22.250 \longrightarrow 00:43:26.426$  Such as view prior bupropion the

NOTE Confidence: 0.895819823333333

 $00:43:26.426 \longrightarrow 00:43:30.015$  the mental health behavioral health

NOTE Confidence: 0.895819823333333

 $00:43:30.015 \longrightarrow 00:43:32.424$  agent that is a norepinephrine and

NOTE Confidence: 0.895819823333333

 $00:43:32.424 \longrightarrow 00:43:34.680$  dopamine reuptake inhibitor that

NOTE Confidence: 0.895819823333333

 $00:43:34.680 \longrightarrow 00:43:36.936$  can cause significant Constipation.

NOTE Confidence: 0.895819823333333

 $00:43:36.940 \longrightarrow 00:43:38.850$  Does that have any relationship

NOTE Confidence: 0.895819823333333

 $00:43:38.850 \longrightarrow 00:43:39.996$  to the microbiome?

NOTE Confidence: 0.908075925714286

00:43:40.850 --> 00:43:44.294 You know, I don't know that specifically,

NOTE Confidence: 0.908075925714286

 $00{:}43{:}44{:}300 \dashrightarrow 00{:}43{:}47{:}928$  but what I would say is that because the

NOTE Confidence: 0.908075925714286

00:43:47.928 --> 00:43:51.680 microbiome is just a part of our bodies,

NOTE Confidence: 0.908075925714286

 $00:43:51.680 \longrightarrow 00:43:55.080$  our systems. That it it.

NOTE Confidence: 0.908075925714286

 $00{:}43{:}55.080 \to 00{:}43{:}58.656$  I cannot see that there would be any.

NOTE Confidence: 0.908075925714286

00:43:58.660 --> 00:44:01.650 There's no downside to enhancing

NOTE Confidence: 0.908075925714286

00:44:01.650 --> 00:44:04.042 your microbiome to eating

 $00:44:04.042 \longrightarrow 00:44:06.775$  fermented foods, I do say.

NOTE Confidence: 0.908075925714286

00:44:06.775 --> 00:44:08.795 When you're introducing fermented

NOTE Confidence: 0.908075925714286

00:44:08.795 --> 00:44:11.746 foods into your diet, like fiber,

NOTE Confidence: 0.908075925714286

00:44:11.746 --> 00:44:14.036 you if it causes Constipation,

NOTE Confidence: 0.908075925714286

 $00:44:14.040 \longrightarrow 00:44:16.816$  we know then you really need to eat

NOTE Confidence: 0.908075925714286

00:44:16.816 --> 00:44:19.407 high fiber foods and a lot of them,

NOTE Confidence: 0.908075925714286

00:44:19.410 --> 00:44:22.595 and fermented foods can help with that,

NOTE Confidence: 0.908075925714286

00:44:22.600 --> 00:44:25.085 but I would say to start very

NOTE Confidence: 0.908075925714286

 $00:44:25.085 \longrightarrow 00:44:27.587$  small when there are some people

NOTE Confidence: 0.908075925714286

 $00:44:27.587 \longrightarrow 00:44:29.590$  who have absolutely no reaction.

NOTE Confidence: 0.908075925714286

00:44:29.590 --> 00:44:33.004 I mean, I could put a half a cup of

NOTE Confidence: 0.908075925714286

 $00{:}44{:}33.004 \dashrightarrow 00{:}44{:}35.090$  sauerkraut on my sourdough bread and

NOTE Confidence: 0.908075925714286

 $00:44:35.090 \longrightarrow 00:44:38.160$  and I would just think I was in heaven.

NOTE Confidence: 0.908075925714286

00:44:38.160 --> 00:44:40.144 But other people need to start with more

NOTE Confidence: 0.908075925714286

 $00:44:40.144 \longrightarrow 00:44:42.257$  of a teaspoon to start as a condiment

NOTE Confidence: 0.908075925714286

 $00:44:42.257 \longrightarrow 00:44:44.460$  and just put a little bit on their

00:44:44.460 --> 00:44:46.792 plate and try to increase that as they

NOTE Confidence: 0.908075925714286

 $00:44:46.792 \longrightarrow 00:44:48.808$  go to start building that microbiome.

NOTE Confidence: 0.908075925714286

00:44:48.810 --> 00:44:52.248 And I would imagine that that

NOTE Confidence: 0.908075925714286

00:44:52.248 --> 00:44:55.662 would modulate out I, I, you know,

NOTE Confidence: 0.908075925714286

 $00:44:55.662 \longrightarrow 00:44:57.906$  I'm not an expert in that

NOTE Confidence: 0.908075925714286

00:44:57.906 --> 00:44:59.656 medication so I am not sure,

NOTE Confidence: 0.908075925714286

 $00:44:59.660 \longrightarrow 00:45:01.856$  but that would be my reaction.

NOTE Confidence: 0.908075925714286

 $00:45:01.860 \longrightarrow 00:45:02.380$  OK

NOTE Confidence: 0.922146461428571

 $00:45:02.410 \longrightarrow 00:45:05.686$  great another one is from someone who

NOTE Confidence: 0.922146461428571

 $00:45:05.686 \longrightarrow 00:45:08.909$  is on medication for type 2 diabetes.

NOTE Confidence: 0.922146461428571

00:45:08.910 --> 00:45:12.246 And the medicines work by causing the body

NOTE Confidence: 0.922146461428571

 $00:45:12.246 \longrightarrow 00:45:14.800$  to get rid of extra sugar through the urine.

NOTE Confidence: 0.922146461428571

 $00:45:14.800 \longrightarrow 00:45:16.894$  This person has noticed that they

NOTE Confidence: 0.922146461428571

 $00:45:16.894 \longrightarrow 00:45:18.689$  have started getting yeast infections

NOTE Confidence: 0.922146461428571

 $00:45:18.689 \longrightarrow 00:45:20.956$  for the first time and don't have the

 $00:45:20.956 \longrightarrow 00:45:22.330$  option to stop taking the medication.

NOTE Confidence: 0.922146461428571

00:45:22.330 --> 00:45:25.100 So what can? What can he or she do

NOTE Confidence: 0.922146461428571

 $00:45:25.100 \longrightarrow 00:45:26.938$  to reduce the yeast taking over?

NOTE Confidence: 0.872515636363636

 $00:45:27.710 \longrightarrow 00:45:30.800$  Yeah well and and that's really

NOTE Confidence: 0.872515636363636

 $00:45:30.800 \longrightarrow 00:45:33.310$  interesting because one of the.

NOTE Confidence: 0.872515636363636

00:45:33.310 --> 00:45:35.390 Somebody who wasn't on medication,

NOTE Confidence: 0.872515636363636

 $00:45:35.390 \longrightarrow 00:45:38.660$  we would just definitely say start

NOTE Confidence: 0.872515636363636

00:45:38.660 --> 00:45:41.809 upping your fermented foods and fiber,

NOTE Confidence: 0.872515636363636

00:45:41.810 --> 00:45:45.900 and I would say that to you too, although.

NOTE Confidence: 0.872515636363636

 $00:45:45.900 \longrightarrow 00:45:48.042$  You know the medications may be

NOTE Confidence: 0.872515636363636

 $00:45:48.042 \longrightarrow 00:45:50.090$  contributing so that you're going to

NOTE Confidence: 0.872515636363636

 $00:45:50.090 \longrightarrow 00:45:52.314$  have to work a little harder at that.

NOTE Confidence: 0.872515636363636

 $00:45:52.320 \longrightarrow 00:45:54.180$  The The thing is,

NOTE Confidence: 0.872515636363636

 $00:45:54.180 \longrightarrow 00:45:56.040$  is not consuming sugar.

NOTE Confidence: 0.872515636363636

 $00:45:56.040 \longrightarrow 00:45:57.460$  And when I say sugar,

NOTE Confidence: 0.872515636363636

 $00{:}45{:}57.460 \dashrightarrow 00{:}46{:}00.484$  I also mean a lot of refined flour.

 $00:46:00.490 \longrightarrow 00:46:03.866$  So white flour in the form of breads

NOTE Confidence: 0.872515636363636

 $00:46:03.866 \longrightarrow 00:46:07.323$  and cakes and crackers and all of

NOTE Confidence: 0.872515636363636

00:46:07.323 --> 00:46:10.400 that which you probably already know,

NOTE Confidence: 0.872515636363636

 $00:46:10.400 \longrightarrow 00:46:12.200$  acts like sugar in the body.

NOTE Confidence: 0.872515636363636

 $00:46:12.200 \longrightarrow 00:46:16.160$  And so if we can replace that with.

NOTE Confidence: 0.872515636363636

 $00:46:16.160 \longrightarrow 00:46:19.910$  You know all of these incredible

NOTE Confidence: 0.872515636363636

 $00:46:19.910 \longrightarrow 00:46:23.077$  colorful vegetables and which adds

NOTE Confidence: 0.872515636363636

 $00:46:23.077 \longrightarrow 00:46:27.025$  to the fiber which helps keep things

NOTE Confidence: 0.872515636363636

 $00{:}46{:}27.025 \dashrightarrow 00{:}46{:}30.508$  moving through and then adding some

NOTE Confidence: 0.872515636363636

 $00:46:30.508 \longrightarrow 00:46:34.030$  beautiful fermented foods which I really.

NOTE Confidence: 0.872515636363636

00:46:34.030 --> 00:46:36.574 I will spend a minute talking

NOTE Confidence: 0.872515636363636

 $00:46:36.574 \longrightarrow 00:46:38.270$  about some of these.

NOTE Confidence: 0.872515636363636

 $00{:}46{:}38.270 \dashrightarrow 00{:}46{:}40.382$  I would say that would really

NOTE Confidence: 0.872515636363636

 $00:46:40.382 \longrightarrow 00:46:43.428$  help if you are.

NOTE Confidence: 0.872515636363636

 $00:46:43.430 \longrightarrow 00:46:46.570$  I would also say that eating some of

 $00:46:46.570 \longrightarrow 00:46:48.220$  these fermented vegetables and things

NOTE Confidence: 0.872515636363636

 $00{:}46{:}48.220 \dashrightarrow 00{:}46{:}50.368$  are going to help with the potassium,

NOTE Confidence: 0.872515636363636

 $00:46:50.370 \longrightarrow 00:46:52.736$  which is going to help keep that

NOTE Confidence: 0.872515636363636

 $00:46:52.740 \longrightarrow 00:46:58.364$  diuretic aspect in a little bit in check.

NOTE Confidence: 0.872515636363636

 $00:46:58.370 \longrightarrow 00:46:59.745$  Did that answer your question

NOTE Confidence: 0.872515636363636

 $00:46:59.745 \longrightarrow 00:47:00.845$  or did that help?

NOTE Confidence: 0.872515636363636

00:47:00.850 --> 00:47:03.260 Because Pro Biotic foods OK,

NOTE Confidence: 0.872515636363636

 $00:47:03.260 \longrightarrow 00:47:05.885$  so let me back up the second.

NOTE Confidence: 0.872515636363636

 $00:47:05.890 \longrightarrow 00:47:08.498$  The foods we eat.

NOTE Confidence: 0.872515636363636

 $00:47:08.500 \longrightarrow 00:47:10.170$  That have bacteria in them.

NOTE Confidence: 0.872515636363636

 $00:47:10.170 \longrightarrow 00:47:14.070$  Those are called the the.

NOTE Confidence: 0.872515636363636

 $00:47:14.070 \longrightarrow 00:47:19.068$  Microbial foods the the probiotics.

NOTE Confidence: 0.872515636363636

 $00:47:19.070 \longrightarrow 00:47:21.422$  OK, we're going to call in

NOTE Confidence: 0.872515636363636

 $00:47:21.422 \longrightarrow 00:47:22.990$  probiotics there for life.

NOTE Confidence: 0.872515636363636

 $00:47:22.990 \longrightarrow 00:47:24.350$  There are helpful to life.

NOTE Confidence: 0.872515636363636

 $00:47:24.350 \longrightarrow 00:47:27.450$  That's the microbe rich foods.

 $00:47:27.450 \longrightarrow 00:47:31.566$  When we eat the fruits and vegetables,

NOTE Confidence: 0.872515636363636

 $00:47:31.570 \longrightarrow 00:47:34.402$  they are actually the food for

NOTE Confidence: 0.872515636363636

 $00:47:34.402 \longrightarrow 00:47:37.360$  those microbes that we call those.

NOTE Confidence: 0.872515636363636

 $00:47:37.360 \longrightarrow 00:47:40.230$  Pre biotics so we have the biotic

NOTE Confidence: 0.872515636363636

 $00:47:40.230 \longrightarrow 00:47:42.770$  rich and then the prebiotic.

NOTE Confidence: 0.872515636363636

 $00:47:42.770 \longrightarrow 00:47:44.298$  So eating those things.

NOTE Confidence: 0.872515636363636

00:47:44.298 --> 00:47:45.946 Lots of fibers, foods,

NOTE Confidence: 0.872515636363636

 $00:47:45.946 \longrightarrow 00:47:47.930$  lots of fermented foods,

NOTE Confidence: 0.872515636363636

 $00:47:47.930 \longrightarrow 00:47:50.300$  fermented foods that are vegetables

NOTE Confidence: 0.872515636363636

 $00:47:50.300 \longrightarrow 00:47:53.240$  that will help your body fight

NOTE Confidence: 0.872515636363636

 $00:47:53.240 \longrightarrow 00:47:55.200$  some of those infections.

NOTE Confidence: 0.872515636363636

00:47:55.200 --> 00:47:58.080 It's just it can be a vicious cycle though,

NOTE Confidence: 0.872515636363636

 $00{:}47{:}58.080 {\:{\circ}{\circ}{\circ}}>00{:}48{:}00.110$  because you probably are being put on

NOTE Confidence: 0.872515636363636

00:48:00.110 --> 00:48:01.740 antibiotics to fight the infection,

NOTE Confidence: 0.872515636363636

 $00:48:01.740 \longrightarrow 00:48:03.100$  which kills off the bacteria.

 $00:48:03.100 \longrightarrow 00:48:06.620$  They're going to help help with it,

NOTE Confidence: 0.872515636363636

 $00:48:06.620 \longrightarrow 00:48:10.290$  so there yeah, so it's it's tough,

NOTE Confidence: 0.872515636363636

 $00:48:10.290 \longrightarrow 00:48:12.174$  but I would start finding those

NOTE Confidence: 0.872515636363636

 $00:48:12.174 \longrightarrow 00:48:14.183$  fermented foods and I'll tell you where

NOTE Confidence: 0.872515636363636

 $00:48:14.183 \longrightarrow 00:48:16.639$  and how and all of that in a few minutes.

NOTE Confidence: 0.932289461666667

00:48:17.150 --> 00:48:18.650 Yeah, I think you actually got.

NOTE Confidence: 0.932289461666667

00:48:18.650 --> 00:48:19.840 You know our next question

NOTE Confidence: 0.932289461666667

 $00:48:19.840 \longrightarrow 00:48:20.554$  was the difference.

NOTE Confidence: 0.932289461666667

 $00:48:20.560 \longrightarrow 00:48:21.810$  I think you just answered it, John.

NOTE Confidence: 0.932289461666667

 $00:48:21.810 \longrightarrow 00:48:23.860$  The role of probiotics and

NOTE Confidence: 0.932289461666667

 $00{:}48{:}23.860 \dashrightarrow 00{:}48{:}25.272$  the difference in probiotics.

NOTE Confidence: 0.932289461666667

00:48:25.272 --> 00:48:25.864 Versus prebiotics,

NOTE Confidence: 0.932289461666667

 $00:48:25.864 \longrightarrow 00:48:27.640$  so if there's anything else that

NOTE Confidence: 0.932289461666667

 $00:48:27.688 \longrightarrow 00:48:28.990$  you wanted to add about that.

NOTE Confidence: 0.932289461666667

00:48:28.990 --> 00:48:30.646 But I think you just touched on that.

NOTE Confidence: 0.8491763175

 $00:48:30.940 \longrightarrow 00:48:33.999$  Yeah, yeah, the pre-buy the prebiotics

 $00:48:33.999 \longrightarrow 00:48:36.589$  are just making sure that the

NOTE Confidence: 0.8491763175

 $00{:}48{:}36.589 \dashrightarrow 00{:}48{:}39.368$  bacteria we the bacteria we want to

NOTE Confidence: 0.8491763175

 $00:48:39.451 \longrightarrow 00:48:42.646$  colonize are well nourished, well fed.

NOTE Confidence: 0.8491763175

 $00:48:42.646 \longrightarrow 00:48:45.887$  So it it offers us all the

NOTE Confidence: 0.8491763175

00:48:45.887 --> 00:48:48.379 nourishment of those vegetables,

NOTE Confidence: 0.8491763175

 $00:48:48.380 \longrightarrow 00:48:50.558$  keeps our bowel moving which means

NOTE Confidence: 0.8491763175

 $00:48:50.558 \longrightarrow 00:48:53.738$  we keep all that back that the toxins

NOTE Confidence: 0.8491763175

 $00{:}48{:}53.738 \to 00{:}48{:}56.216$  from building and feeds our bacteria.

NOTE Confidence: 0.8491763175

 $00:48:56.220 \longrightarrow 00:48:59.037$  So those it's just a win win to have

NOTE Confidence: 0.8491763175

 $00:48:59.037 \longrightarrow 00:49:03.040$  the prebiotic, the food and the.

NOTE Confidence: 0.8491763175

 $00:49:03.040 \longrightarrow 00:49:05.155$  The microbes great

NOTE Confidence: 0.9102954855

 $00:49:05.690 \longrightarrow 00:49:08.050$  and just going back so to the previous

NOTE Confidence: 0.9102954855

 $00{:}49{:}08.050 \dashrightarrow 00{:}49{:}09.940$  question because there's a follow up

NOTE Confidence: 0.9102954855

 $00:49:09.940 \longrightarrow 00:49:11.806$  about the sugar and eliminating sugar.

NOTE Confidence: 0.9102954855

 $00:49:11.810 \longrightarrow 00:49:13.273$  I think it was an important distinction

 $00:49:13.273 \longrightarrow 00:49:15.110$  that you made that it's not just sugar.

NOTE Confidence: 0.9102954855

00:49:15.110 --> 00:49:16.403 Sweet sugar, right?

NOTE Confidence: 0.9102954855

00:49:16.403 --> 00:49:18.641 But the refined carbohydrates in our

NOTE Confidence: 0.9102954855

 $00:49:18.641 \longrightarrow 00:49:21.050$  turn into glucose in our blood stream.

NOTE Confidence: 0.9102954855

 $00:49:21.050 \longrightarrow 00:49:23.528$  So it's any of those kinds of

NOTE Confidence: 0.9102954855

 $00:49:23.528 \longrightarrow 00:49:24.590$  carbohydrate refined foods.

NOTE Confidence: 0.9102954855

 $00:49:24.590 \longrightarrow 00:49:26.210$  But so there's a follow-up question.

NOTE Confidence: 0.9102954855

00:49:26.210 --> 00:49:28.286 Eliminating sugar altogether is really tough,

NOTE Confidence: 0.9102954855

 $00{:}49{:}28.290 \dashrightarrow 00{:}49{:}30.747$  right? And this person has done it,

NOTE Confidence: 0.9102954855

 $00:49:30.750 \longrightarrow 00:49:32.230$  but eventually wore down and

NOTE Confidence: 0.9102954855

 $00:49:32.230 \longrightarrow 00:49:33.414$  is now eating some.

NOTE Confidence: 0.9102954855

 $00:49:33.420 \longrightarrow 00:49:35.520$  Is there a small amount that is OK?

NOTE Confidence: 0.9102954855

 $00:49:35.520 \longrightarrow 00:49:37.296$  Can you talk a little bit

NOTE Confidence: 0.9102954855

 $00:49:37.296 \longrightarrow 00:49:39.120$  about balance Joan in terms of,

NOTE Confidence: 0.9102954855

00:49:39.120 --> 00:49:40.860 you know, not all or nothing,

NOTE Confidence: 0.9102954855

00:49:40.860 --> 00:49:42.290 but you know what's OK?

00:49:43.800 --> 00:49:46.722 Right, well, so let's say we need to talk

NOTE Confidence: 0.75768598

 $00{:}49{:}46.722 \dashrightarrow 00{:}49{:}49.449$  about you know where do I eat sugar?

NOTE Confidence: 0.75768598

 $00:49:49.450 \longrightarrow 00:49:52.162$  Of course I do. I have a lovely

NOTE Confidence: 0.75768598

 $00:49:52.162 \longrightarrow 00:49:54.919$  piece of chocolate at the end of a

NOTE Confidence: 0.75768598

00:49:54.919 --> 00:49:58.196 meal or or if I just feel like that,

NOTE Confidence: 0.75768598

00:49:58.200 --> 00:50:01.968 but it's it's when you find

NOTE Confidence: 0.75768598

00:50:01.968 --> 00:50:03.852 yourself craving sugar.

NOTE Confidence: 0.75768598

 $00:50:03.860 \longrightarrow 00:50:06.400$  You have to take a step back and say OK what?

NOTE Confidence: 0.75768598

 $00:50:06.400 \longrightarrow 00:50:10.558$  What signals am I getting and why am I?

NOTE Confidence: 0.75768598

 $00:50:10.560 \longrightarrow 00:50:13.460$  Am I turning to that so you don't have to?

NOTE Confidence: 0.75768598

00:50:13.460 --> 00:50:16.838 Avoid all. Sugar you don't have

NOTE Confidence: 0.75768598

 $00:50:16.838 \longrightarrow 00:50:19.850$  to avoid all refined carbs,

NOTE Confidence: 0.75768598

 $00:50:19.850 \longrightarrow 00:50:23.802$  but it is difficult to eat from our

NOTE Confidence: 0.75768598

 $00:50:23.802 \longrightarrow 00:50:27.303$  grocery stores these days and not have

NOTE Confidence: 0.75768598

 $00:50:27.303 \longrightarrow 00:50:30.498$  sugar laden and refined carb laden foods.

00:50:30.498 --> 00:50:33.120 So I would say you do.

NOTE Confidence: 0.75768598

 $00:50:33.120 \longrightarrow 00:50:35.808$  You never have to be a purist.

NOTE Confidence: 0.75768598

 $00:50:35.810 \longrightarrow 00:50:38.303$  But you need to find what works for you,

NOTE Confidence: 0.75768598

 $00:50:38.310 \longrightarrow 00:50:40.319$  and so maybe for a little while.

NOTE Confidence: 0.75768598

 $00:50:40.320 \longrightarrow 00:50:41.298$  Like you said,

NOTE Confidence: 0.75768598

00:50:41.298 --> 00:50:43.580 you went sugar free for awhile and

NOTE Confidence: 0.75768598

00:50:43.651 --> 00:50:45.847 now you're kind of breaking down?

NOTE Confidence: 0.75768598

 $00:50:45.850 \longrightarrow 00:50:49.246$  Well, that's OK to try to.

NOTE Confidence: 0.75768598

 $00{:}50{:}49.250 \to 00{:}50{:}51.077$  You're working on an issue you're trying

NOTE Confidence: 0.75768598

 $00{:}50{:}51.077 \dashrightarrow 00{:}50{:}52.808$  to get through some health issues,

NOTE Confidence: 0.75768598

 $00:50:52.810 \longrightarrow 00:50:55.105$  so you're going to be really good for awhile.

NOTE Confidence: 0.75768598

 $00:50:55.110 \longrightarrow 00:50:56.889$  And that's great.

NOTE Confidence: 0.75768598

 $00:50:56.889 \longrightarrow 00:50:58.668$  Maybe introducing fermented

NOTE Confidence: 0.75768598

 $00{:}50{:}58.668 {\:\raisebox{--}{\text{--}}}{\:\raisebox{--}{\text{--}}}{\:\raisebox{--}{\text{--}}} 00{:}51{:}02.053$  foods and upping your your

NOTE Confidence: 0.75768598

 $00:51:02.053 \longrightarrow 00:51:05.287$  vegetables will help with that a bit.

NOTE Confidence: 0.75768598

 $00:51:05.290 \longrightarrow 00:51:06.800$  And then you have room.

 $00:51:06.800 \longrightarrow 00:51:08.068$  For a little bit,

NOTE Confidence: 0.75768598

 $00:51:08.068 \longrightarrow 00:51:10.663$  but you because it's been an issue before

NOTE Confidence: 0.75768598

00:51:10.663 --> 00:51:13.630 or you have signs of it being an issue,

NOTE Confidence: 0.75768598

00:51:13.630 --> 00:51:14.940 you need to pay attention,

NOTE Confidence: 0.75768598

 $00:51:14.940 \longrightarrow 00:51:15.333$  right?

NOTE Confidence: 0.75768598

00:51:15.333 --> 00:51:18.084 So it's not like if somebody makes

NOTE Confidence: 0.75768598

00:51:18.084 --> 00:51:20.318 you some beautiful thing and

NOTE Confidence: 0.75768598

 $00{:}51{:}20.318 \longrightarrow 00{:}51{:}23.042$  brings you a beautiful piece of.

NOTE Confidence: 0.75768598

 $00:51:23.050 \longrightarrow 00:51:26.222$  High that they've made you have a

NOTE Confidence: 0.75768598

 $00:51:26.222 \longrightarrow 00:51:28.364$  small piece of it and know that

NOTE Confidence: 0.75768598

 $00:51:28.364 \longrightarrow 00:51:30.381$  that's just was made with love

NOTE Confidence: 0.75768598

00:51:30.381 --> 00:51:32.290 for you and you're gonna do,

NOTE Confidence: 0.75768598

 $00{:}51{:}32.290 --> 00{:}51{:}32.776$ you know,

NOTE Confidence: 0.75768598

 $00:51:32.776 \longrightarrow 00:51:34.720$  try to not consume a lot of sugar

NOTE Confidence: 0.75768598

 $00:51:34.781 \longrightarrow 00:51:36.479$  after that for a little while.

 $00:51:36.480 \longrightarrow 00:51:38.682$  It's it's when it becomes everyday

NOTE Confidence: 0.75768598

 $00:51:38.682 \longrightarrow 00:51:40.886$  when it becomes every meal when

NOTE Confidence: 0.75768598

00:51:40.886 --> 00:51:42.890 it's the thing you first think

NOTE Confidence: 0.75768598

 $00:51:42.890 \longrightarrow 00:51:44.809$  of because you can't think of

NOTE Confidence: 0.75768598

 $00:51:44.809 \longrightarrow 00:51:46.929$  other things to make or or grab.

NOTE Confidence: 0.75768598

 $00{:}51{:}46.929 \dashrightarrow 00{:}51{:}49.372$  And so I think that you never

NOTE Confidence: 0.75768598

 $00:51:49.372 \longrightarrow 00:51:51.452$  have to be a purist, but.

NOTE Confidence: 0.75768598

00:51:51.452 --> 00:51:54.350 You need to listen to your body and pay

NOTE Confidence: 0.75768598

 $00:51:54.430 \longrightarrow 00:51:57.286$  attention to when it becomes a problem.

NOTE Confidence: 0.75768598

00:51:57.290 --> 00:51:58.300 So great,

NOTE Confidence: 0.75768598

00:51:58.310 --> 00:52:00.120 thank you.

NOTE Confidence: 0.892074571428571

00:52:00.120 --> 00:52:02.255 OK, next one is there great question.

NOTE Confidence: 0.892074571428571

 $00:52:02.260 \longrightarrow 00:52:04.458$  Is there a way to measure the

NOTE Confidence: 0.892074571428571

00:52:04.458 --> 00:52:06.240 health of one's microbiome?

NOTE Confidence: 0.892074571428571

 $00:52:06.240 \longrightarrow 00:52:07.314$  In other words,

NOTE Confidence: 0.892074571428571

 $00:52:07.314 \longrightarrow 00:52:08.746$  other than having symptoms,

 $00:52:08.750 \longrightarrow 00:52:11.288$  how does one know the condition?

NOTE Confidence: 0.892074571428571

00:52:11.290 --> 00:52:12.568 Of our microbiome?

NOTE Confidence: 0.864514726666667

 $00:52:12.790 \longrightarrow 00:52:14.110$  Yeah, that is a good question.

NOTE Confidence: 0.864514726666667

 $00:52:14.110 \longrightarrow 00:52:19.269$  It's so fascinating because there are actual.

NOTE Confidence: 0.864514726666667

00:52:19.270 --> 00:52:21.300 There's there are research groups,

NOTE Confidence: 0.864514726666667

 $00:52:21.300 \longrightarrow 00:52:25.218$  they're out there measuring the microbiome,

NOTE Confidence: 0.864514726666667

00:52:25.220 --> 00:52:29.539 and they're they're telling you you know

NOTE Confidence: 0.864514726666667

 $00{:}52{:}29.539 \dashrightarrow 00{:}52{:}33.479$  where your microbiome may have originated.

NOTE Confidence: 0.864514726666667

 $00:52:33.480 \longrightarrow 00:52:34.776$  Actually, there are labs

NOTE Confidence: 0.864514726666667

 $00:52:34.776 \longrightarrow 00:52:36.720$  when you go to the doctor.

NOTE Confidence: 0.864514726666667

 $00:52:36.720 \longrightarrow 00:52:38.511$  Sometimes they'll do.

NOTE Confidence: 0.864514726666667

 $00:52:38.511 \longrightarrow 00:52:42.093$  They'll culture stool samples to see

NOTE Confidence: 0.864514726666667

 $00{:}52{:}42.093 \to 00{:}52{:}45.228$  what bacteria are in your gut.

NOTE Confidence: 0.864514726666667

 $00:52:45.228 \longrightarrow 00:52:46.842$  If they think if they suspect

NOTE Confidence: 0.864514726666667

 $00:52:46.842 \longrightarrow 00:52:49.155$  there's a problem, but in there.

 $00:52:49.155 \longrightarrow 00:52:53.250$  Are also I think it's called the microbiome.

NOTE Confidence: 0.864514726666667

 $00:52:53.250 \longrightarrow 00:52:54.502$  Study it may I?

NOTE Confidence: 0.864514726666667

 $00:52:54.502 \longrightarrow 00:52:57.445$  I'm I'm you can't quote me on that because

NOTE Confidence: 0.864514726666667

 $00:52:57.445 \longrightarrow 00:53:00.562$  I don't know the name but it is where

NOTE Confidence: 0.864514726666667

00:53:00.562 --> 00:53:04.114 they're actually trying to map and.

NOTE Confidence: 0.864514726666667

 $00:53:04.120 \longrightarrow 00:53:06.050$  Start checking the the microbes

NOTE Confidence: 0.864514726666667

 $00:53:06.050 \longrightarrow 00:53:08.919$  and see if they can tell where

NOTE Confidence: 0.864514726666667

 $00:53:08.919 \longrightarrow 00:53:10.954$  people may have originated from.

NOTE Confidence: 0.864514726666667

 $00{:}53{:}10.954 \dashrightarrow 00{:}53{:}13.360$  Because we know that certain regions

NOTE Confidence: 0.864514726666667

00:53:13.427 --> 00:53:15.828 of the world have certain types of

NOTE Confidence: 0.864514726666667

 $00{:}53{:}15.828 \dashrightarrow 00{:}53{:}17.600$  bacteria and other regions have

NOTE Confidence: 0.864514726666667

 $00:53:17.600 \longrightarrow 00:53:20.332$  other types and they just did a

NOTE Confidence: 0.864514726666667

 $00:53:20.332 \longrightarrow 00:53:24.484$  study on bakeries that do sourdough

NOTE Confidence: 0.864514726666667

00:53:24.484 --> 00:53:27.300 breads and that have their starter,

NOTE Confidence: 0.864514726666667

 $00:53:27.300 \longrightarrow 00:53:29.180$  which is a microbial starter,

NOTE Confidence: 0.864514726666667

 $00:53:29.180 \longrightarrow 00:53:32.260$  it's a fermentation and they

 $00:53:32.260 \longrightarrow 00:53:35.340$  had bakers send their ferments.

NOTE Confidence: 0.864514726666667

 $00{:}53{:}35.340 \dashrightarrow 00{:}53{:}38.164$  In and they analyzed them from where to

NOTE Confidence: 0.864514726666667

 $00:53:38.164 \longrightarrow 00:53:41.656$  try and see where those microbes originated,

NOTE Confidence: 0.864514726666667

 $00:53:41.660 \longrightarrow 00:53:43.904$  and they were able to categorize

NOTE Confidence: 0.864514726666667

00:53:43.904 --> 00:53:45.400 people in certain groups.

NOTE Confidence: 0.864514726666667

 $00:53:45.400 \longrightarrow 00:53:48.420$  It was a fascinating.

NOTE Confidence: 0.864514726666667

 $00:53:48.420 \longrightarrow 00:53:49.593$  Piece of research.

NOTE Confidence: 0.864514726666667

00:53:49.593 --> 00:53:53.111 So I I don't you could try to find

NOTE Confidence: 0.864514726666667

 $00{:}53{:}53.111 \dashrightarrow 00{:}53{:}56.826$  that group and then may be see about

NOTE Confidence: 0.864514726666667

 $00:53:56.826 \longrightarrow 00:54:02.060$  getting your microbial volume studies.

NOTE Confidence: 0.864514726666667

 $00:54:02.060 \longrightarrow 00:54:03.388$  I believe vyram studies.

NOTE Confidence: 0.864514726666667

 $00{:}54{:}03.388 \dashrightarrow 00{:}54{:}06.290$  The microbe I can only see part of it

NOTE Confidence: 0.864514726666667

 $00{:}54{:}06.290 \dashrightarrow 00{:}54{:}08.580$  so some body just put that in the chat

NOTE Confidence: 0.57066243

 $00{:}54{:}08.590 \dashrightarrow 00{:}54{:}12.590$  I see Yep Biome VIOME someone mentions

NOTE Confidence: 0.57066243

 $00:54:12.590 \longrightarrow 00:54:16.040$  so and then you know I was just going

 $00:54:16.040 \longrightarrow 00:54:17.474$  to say it sounds like definitely more to

NOTE Confidence: 0.57066243

00:54:17.474 --> 00:54:18.966 come research in this area and hopefully

NOTE Confidence: 0.57066243

 $00:54:18.966 \longrightarrow 00:54:22.020$  the availability for lay people like

NOTE Confidence: 0.57066243

 $00:54:22.020 \longrightarrow 00:54:24.330$  us to have some kind of assessment.

NOTE Confidence: 0.90158665555556

00:54:25.320 --> 00:54:26.500 It's remarkable,

NOTE Confidence: 0.90158665555556

 $00.54:26.500 \longrightarrow 00.54:30.630$  so there was also a journalist who.

NOTE Confidence: 0.90158665555556

 $00:54:30.630 \longrightarrow 00:54:32.868$  Ended up he had something that

NOTE Confidence: 0.90158665555556

 $00:54:32.868 \longrightarrow 00:54:35.428$  happened to him and so he was

NOTE Confidence: 0.90158665555556

 $00:54:35.428 \longrightarrow 00:54:37.414$  going to try and re inoculate.

NOTE Confidence: 0.90158665555556

00:54:37.420 --> 00:54:38.778 That's what we call it when you're

NOTE Confidence: 0.90158665555556

00:54:38.778 --> 00:54:40.140 trying to build up your microbiome.

NOTE Confidence: 0.90158665555556

 $00:54:40.140 \longrightarrow 00:54:42.156$  Re inoculate his microbiome and he

NOTE Confidence: 0.90158665555556

 $00:54:42.156 \longrightarrow 00:54:44.425$  was getting he was testing it every

NOTE Confidence: 0.901586655555556

00:54:44.425 --> 00:54:47.000 day now I don't it was stool samples.

NOTE Confidence: 0.90158665555556

00:54:47.000 --> 00:54:49.436 I don't know he was working with

NOTE Confidence: 0.90158665555556

 $00:54:49.440 \longrightarrow 00:54:51.498$  some scientists and stuff to see

00:54:51.498 --> 00:54:54.011 how long it took to build it back

NOTE Confidence: 0.90158665555556

 $00:54:54.011 \longrightarrow 00:54:59.080$  up and it it it isn't a fast thing.

NOTE Confidence: 0.90158665555556

 $00:54:59.080 \longrightarrow 00:55:02.425$  Uhm? Uh, the somebody else is

NOTE Confidence: 0.90158665555556

 $00:55:02.425 \longrightarrow 00:55:04.020$  talking about the plant paradox.

NOTE Confidence: 0.90158665555556 00:55:04.020 --> 00:55:04.380 Yeah,

NOTE Confidence: 0.853029326

 $00:55:04.390 \longrightarrow 00:55:05.440$  that was another one of

NOTE Confidence: 0.853029326

 $00:55:05.440 \longrightarrow 00:55:06.490$  other questions in the Q&A.

NOTE Confidence: 0.853029326

 $00:55:06.490 \longrightarrow 00:55:08.164$  Two, we have a couple about

NOTE Confidence: 0.853029326

00:55:08.164 --> 00:55:09.280 foods specifically so good

NOTE Confidence: 0.96517935

 $00:55:09.290 \longrightarrow 00:55:12.138$  because I would love to just quickly talk

NOTE Confidence: 0.96517935

 $00:55:12.140 \longrightarrow 00:55:14.196$  about them before we run out of time.

NOTE Confidence: 0.888915514

00:55:14.330 --> 00:55:16.270 Yeah, we're we're OK now.

NOTE Confidence: 0.888915514

 $00{:}55{:}16.270 \dashrightarrow 00{:}55{:}17.734$  We're a few minutes before before

NOTE Confidence: 0.888915514

 $00:55:17.734 \longrightarrow 00:55:19.670$  5 and we had allowed for 5:15,

NOTE Confidence: 0.888915514

00:55:19.670 --> 00:55:20.858 so hopefully folks can stay on

 $00:55:20.858 \longrightarrow 00:55:22.669$  because we do want to see all of the

NOTE Confidence: 0.888915514

 $00{:}55{:}22.669 \dashrightarrow 00{:}55{:}23.930$  beautiful things that you have there.

NOTE Confidence: 0.888915514

 $00:55:23.930 \longrightarrow 00:55:26.457$  Joan, let me just throw a couple

NOTE Confidence: 0.888915514

 $00:55:26.457 \longrightarrow 00:55:28.959$  of these food questions at you.

NOTE Confidence: 0.888915514

 $00:55:28.960 \longrightarrow 00:55:31.456$  Should people with autoimmune disease avoid

NOTE Confidence: 0.888915514

 $00:55:31.456 \longrightarrow 00:55:33.580$  vegetables from the nightshade family?

NOTE Confidence: 0.9597294025

00:55:35.140 --> 00:55:37.520 I think that's really dependent

NOTE Confidence: 0.9597294025

 $00:55:37.520 \longrightarrow 00:55:39.640$  on each individual. You know,

NOTE Confidence: 0.9597294025

 $00:55:39.640 \longrightarrow 00:55:42.400$  there I, I know people who have no

NOTE Confidence: 0.9597294025

 $00:55:42.481 \longrightarrow 00:55:45.067$  issue at all with the nightshade,

NOTE Confidence: 0.9597294025

 $00{:}55{:}45.070 \dashrightarrow 00{:}55{:}48.300$  and I know others who eat even a small

NOTE Confidence: 0.9597294025

00:55:48.300 --> 00:55:51.556 amount of pepper and will wake up with

NOTE Confidence: 0.9597294025

 $00:55:51.556 \longrightarrow 00:55:54.136$  stiff joints and things like that.

NOTE Confidence: 0.9597294025

 $00:55:54.140 \longrightarrow 00:55:57.648$  So I think it's that's a really individual

NOTE Confidence: 0.9597294025

 $00:55:57.648 \longrightarrow 00:56:00.936$  question and not a blanket question.

NOTE Confidence: 0.938595320666667

 $00{:}56{:}01.960 \dashrightarrow 00{:}56{:}03.445$  Gotcha, what would you recommend

 $00:56:03.445 \longrightarrow 00:56:05.638$  for someone who does not like many

NOTE Confidence: 0.938595320666667

 $00{:}56{:}05.638 {\:\dashrightarrow\:} 00{:}56{:}07.758$  vegetables or fruits, so a picky eater?

NOTE Confidence: 0.938595320666667

00:56:07.758 --> 00:56:09.193 What would your recommendations be?

NOTE Confidence: 0.90561002

00:56:09.530 --> 00:56:13.020 Is this an adult or a child? Let's say,

NOTE Confidence: 0.897963661428572

00:56:13.030 --> 00:56:15.290 yes, let's let's say it's an adult. I'm

NOTE Confidence: 0.897963661428572

00:56:15.290 -> 00:56:17.400 not sure on the question, but we're gonna.

NOTE Confidence: 0.926715985

 $00:56:18.140 \longrightarrow 00:56:19.920$  OK, well you know.

NOTE Confidence: 0.926715985

 $00:56:19.920 \longrightarrow 00:56:23.059$  First of all there are people who

NOTE Confidence: 0.926715985

 $00:56:23.059 \longrightarrow 00:56:25.950$  have more taste buds in their mouth

NOTE Confidence: 0.926715985

 $00{:}56{:}25.950 \dashrightarrow 00{:}56{:}29.148$  and they tend to be sensitive to

NOTE Confidence: 0.926715985

 $00:56:29.148 \longrightarrow 00:56:32.004$  textures and things like that so

NOTE Confidence: 0.926715985

 $00:56:32.010 \longrightarrow 00:56:34.131$  they they eating a lot of fruits

NOTE Confidence: 0.926715985

 $00{:}56{:}34.131 \dashrightarrow 00{:}56{:}35.880$  and vegetables can be difficult.

NOTE Confidence: 0.926715985

00:56:35.880 --> 00:56:37.528 I would say though,

NOTE Confidence: 0.926715985

 $00:56:37.528 \longrightarrow 00:56:40.926$  it's also what you were brought up on and

00:56:40.926 --> 00:56:44.414 what you've kind of trained yourself to like.

NOTE Confidence: 0.926715985

 $00:56:44.420 \longrightarrow 00:56:48.425$  So what I would would say is to begin.

NOTE Confidence: 0.926715985

00:56:48.430 --> 00:56:51.104 Introducing a couple of new things. Uh,

NOTE Confidence: 0.926715985

 $00{:}56{:}51.104 \dashrightarrow 00{:}56{:}53.649$  we can find a way that you like to cook it.

NOTE Confidence: 0.926715985

00:56:53.650 --> 00:56:57.506 You know, pure rain things into your soups.

NOTE Confidence: 0.926715985

 $00:56:57.510 \longrightarrow 00:57:01.878$  You know if you take carrots and kale

NOTE Confidence: 0.926715985

00:57:01.878 --> 00:57:06.238 and and you know beautiful. Like you,

NOTE Confidence: 0.926715985

00:57:06.238 --> 00:57:09.590 you said and things like that and then

NOTE Confidence: 0.926715985

 $00:57:09.680 \longrightarrow 00:57:13.473$  puree it into a really levely textured soup.

NOTE Confidence: 0.926715985

00:57:13.473 --> 00:57:14.892 You you may.

NOTE Confidence: 0.926715985

 $00:57:14.892 \longrightarrow 00:57:19.000$  It may not be as difficult to do that.

NOTE Confidence: 0.926715985

 $00:57:19.000 \longrightarrow 00:57:20.904$  I would say you just you really.

NOTE Confidence: 0.926715985

 $00:57:20.910 \longrightarrow 00:57:23.686$  It's kind of a a mind over if

NOTE Confidence: 0.926715985

 $00{:}57{:}23.686 \dashrightarrow 00{:}57{:}26.478$  it isn't a physiological thing.

NOTE Confidence: 0.926715985

 $00:57:26.480 \longrightarrow 00:57:27.870$  It's something that you just

NOTE Confidence: 0.926715985

 $00:57:27.870 \longrightarrow 00:57:29.260$  kind of have to develop,

 $00:57:29.260 \longrightarrow 00:57:31.230$  and that's a slow process.

NOTE Confidence: 0.926715985

00:57:31.230 --> 00:57:31.696 You know.

NOTE Confidence: 0.926715985

00:57:31.696 --> 00:57:33.327 They, what do they say nine times?

NOTE Confidence: 0.926715985

 $00:57:33.330 \longrightarrow 00:57:36.330$  Sometimes you have to have food

NOTE Confidence: 0.926715985

 $00{:}57{:}36.330 \dashrightarrow 00{:}57{:}38.915$ nine times before you Start

NOTE Confidence: 0.926715985

 $00:57:38.915 \longrightarrow 00:57:41.825$  Stop having an aversion to it.

NOTE Confidence: 0.926715985

 $00:57:41.830 \longrightarrow 00:57:43.108$  And Pureeing seems to be a

NOTE Confidence: 0.926715985

00:57:43.108 --> 00:57:44.170 great way to do it,

NOTE Confidence: 0.926715985

 $00:57:44.170 \longrightarrow 00:57:46.006$  and we're heading into soup season.

NOTE Confidence: 0.926715985

 $00{:}57{:}46.010 \dashrightarrow 00{:}57{:}48.439$  We're heading into the time where we

NOTE Confidence: 0.926715985

 $00:57:48.439 \longrightarrow 00:57:50.950$  want warm and wet foods and Hardy,

NOTE Confidence: 0.926715985

 $00:57:50.950 \longrightarrow 00:57:54.090$  so that might be a good time to try roasting

NOTE Confidence: 0.926715985

 $00:57:54.164 \longrightarrow 00:57:56.948$  brings out the sweetness in vegetables,

NOTE Confidence: 0.926715985

 $00:57:56.950 \longrightarrow 00:58:01.710$  and so if you do a big beautiful tray of

NOTE Confidence: 0.926715985

 $00:58:01.710 \longrightarrow 00:58:05.118$  vegetables with some herbs and spices

00:58:05.118 --> 00:58:08.889 and salt and pepper and olive oil,

NOTE Confidence: 0.926715985

 $00{:}58{:}08.890 \longrightarrow 00{:}58{:}10.490$  and you roast it,

NOTE Confidence: 0.926715985

 $00:58:10.490 \longrightarrow 00:58:11.290$  just sell,

NOTE Confidence: 0.926715985

 $00:58:11.290 \longrightarrow 00:58:12.938$  it gets nice, and.

NOTE Confidence: 0.926715985

00:58:12.938 --> 00:58:15.410 Kind of karmely bringing out its

NOTE Confidence: 0.926715985

 $00:58:15.497 \longrightarrow 00:58:17.962$  natural sugars that sometimes will help,

NOTE Confidence: 0.926715985

 $00:58:17.962 \longrightarrow 00:58:19.960$  and then you could even puree

NOTE Confidence: 0.926715985

 $00.58:20.021 \longrightarrow 00.58:21.049$  that into a soup.

NOTE Confidence: 0.920492356363637

00:58:23.350 --> 00:58:26.638 So you know it's it's just

NOTE Confidence: 0.920492356363637

 $00:58:26.638 \longrightarrow 00:58:29.960$  a training of our palette.

NOTE Confidence: 0.920492356363637

00:58:29.960 --> 00:58:31.706 Taste for wine. You know you.

NOTE Confidence: 0.920492356363637

 $00:58:31.710 \longrightarrow 00:58:34.790$  You develop that with experience.

NOTE Confidence: 0.920492356363637

00:58:34.790 --> 00:58:37.180 Great ideas, UM smoothies

NOTE Confidence: 0.842742834

 $00:58:37.190 \longrightarrow 00:58:38.126$  two or another.

NOTE Confidence: 0.842742834

00:58:38.126 --> 00:58:40.479 I think you know way of getting things in.

NOTE Confidence: 0.842742834

00:58:40.480 --> 00:58:43.200 You know that kind of liquid form, right?

00:58:43.200 --> 00:58:45.586 But people like so did you have?

NOTE Confidence: 0.842742834

 $00{:}58{:}45.590 \dashrightarrow 00{:}58{:}47.298$  So there are a couple of questions

NOTE Confidence: 0.842742834

 $00:58:47.298 \longrightarrow 00:58:48.470$  about the plant paradox.

NOTE Confidence: 0.842742834

00:58:48.470 --> 00:58:51.025 Did you have any thoughts on Doctor

NOTE Confidence: 0.842742834

00:58:51.030 --> 00:58:53.438 Gundry's plant paradox protocol?

NOTE Confidence: 0.936463485

 $00:58:53.820 \longrightarrow 00:58:56.946$  I have not read the protocol,

NOTE Confidence: 0.936463485

 $00:58:56.950 \longrightarrow 00:59:00.597$  so if. The the premise is that.

NOTE Confidence: 0.913282800909091

00:59:02.760 --> 00:59:05.376 I believe he focuses on some of these

NOTE Confidence: 0.913282800909091

00:59:05.376 --> 00:59:07.909 very same foods that we're talking

NOTE Confidence: 0.913282800909091

 $00:59:07.909 \longrightarrow 00:59:10.621$  about are beneficial for cultivating the

NOTE Confidence: 0.913282800909091

 $00:59:10.695 \longrightarrow 00:59:12.780$  microbiome and and potentially sometimes

NOTE Confidence: 0.913282800909091

 $00:59:12.780 \longrightarrow 00:59:14.630$  limiting nightshades and things that

NOTE Confidence: 0.913282800909091

 $00:59:14.630 \longrightarrow 00:59:16.505$  might cause information, inflammation,

NOTE Confidence: 0.913282800909091

 $00:59:16.505 \longrightarrow 00:59:19.415$  or discomfort in certain individuals so

NOTE Confidence: 0.9547106172

 $00:59:20.710 \longrightarrow 00:59:23.026$  well, because what we know about

 $00:59:23.026 \longrightarrow 00:59:25.780$  plants is that when they are healthy

NOTE Confidence: 0.9547106172

 $00:59:25.780 \longrightarrow 00:59:28.048$  when they grow in healthy soil

NOTE Confidence: 0.9547106172

 $00:59:28.048 \longrightarrow 00:59:30.611$  and they are able to produce what

NOTE Confidence: 0.9547106172

 $00:59:30.611 \longrightarrow 00:59:32.537$  we would call a nutrient dense.

NOTE Confidence: 0.9547106172

 $00:59:32.540 \longrightarrow 00:59:35.156$  Plant, it's it has the ability

NOTE Confidence: 0.9547106172

 $00:59:35.156 \longrightarrow 00:59:37.548$  to produce these higher order

NOTE Confidence: 0.9547106172

 $00:59:37.548 \longrightarrow 00:59:39.808$  compounds which actually are.

NOTE Confidence: 0.86282257

00:59:41.940 --> 00:59:46.480 They can be. They they actually protect

NOTE Confidence: 0.86282257

 $00{:}59{:}46.480 \to 00{:}59{:}49.143$  the plant from predators and disease,

NOTE Confidence: 0.86282257

 $00:59:49.143 \longrightarrow 00:59:51.609$  and they can actually be some

NOTE Confidence: 0.86282257

 $00{:}59{:}51.609 \dashrightarrow 00{:}59{:}54.306$  of the bio flavanoids and those

NOTE Confidence: 0.86282257

 $00:59:54.306 \longrightarrow 00:59:56.890$  higher order compounds that we eat.

NOTE Confidence: 0.86282257

 $00:59:56.890 \longrightarrow 00:59:58.040$  Like antioxidants,

NOTE Confidence: 0.86282257

 $00:59:58.040 \longrightarrow 01:00:00.915$  we blueberries for the antioxidants,

NOTE Confidence: 0.86282257

 $01:00:00.920 \longrightarrow 01:00:03.580$  but those you know the the difference

NOTE Confidence: 0.86282257

 $01:00:03.580 \longrightarrow 01:00:07.276$  between a a poison and a cure is the dosage.

 $01:00:07.280 \longrightarrow 01:00:09.856$  So if if somebody has a sensitivity

NOTE Confidence: 0.86282257

 $01{:}00{:}09.856 \dashrightarrow 01{:}00{:}13.120$  to some of those things they can

NOTE Confidence: 0.86282257

 $01:00:13.120 \longrightarrow 01:00:14.696$  cause irritation, but then.

NOTE Confidence: 0.86282257

 $01:00:14.696 \longrightarrow 01:00:15.768$  At the same time,

NOTE Confidence: 0.86282257

 $01{:}00{:}15.770 \dashrightarrow 01{:}00{:}18.206$  some of those same compounds can

NOTE Confidence: 0.86282257

01:00:18.206 --> 01:00:20.409 end up being beneficial for us,

NOTE Confidence: 0.86282257

 $01:00:20.410 \longrightarrow 01:00:23.112$  so it's really learning to listen to

NOTE Confidence: 0.86282257

 $01:00:23.112 \dashrightarrow 01:00:27.047$  your body, and I don't think we have a.

NOTE Confidence: 0.86282257

01:00:27.050 --> 01:00:29.780 A real blanket statement because

NOTE Confidence: 0.86282257

 $01:00:29.780 \longrightarrow 01:00:31.964$  it is so complicated.

NOTE Confidence: 0.86282257

 $01{:}00{:}31.970 \dashrightarrow 01{:}00{:}36.788$  Nature is so complicated and fascinating.

NOTE Confidence: 0.86282257

01:00:36.790 --> 01:00:37.320 Yeah

NOTE Confidence: 0.907840982666667

01:00:37.400 --> 01:00:39.213 for sure. OK, I'm going to lump

NOTE Confidence: 0.907840982666667

 $01:00:39.213 \longrightarrow 01:00:41.044$  a couple of questions here

NOTE Confidence: 0.907840982666667

 $01:00:41.044 \longrightarrow 01:00:42.526$  together about probiotics.

 $01:00:42.530 \longrightarrow 01:00:44.962$  So are there any foods that

NOTE Confidence: 0.907840982666667

01:00:44.962 --> 01:00:47.010 actually contain the probiotics

NOTE Confidence: 0.907840982666667

 $01:00:47.010 \longrightarrow 01:00:48.810$  and then as a follow up to that,

NOTE Confidence: 0.907840982666667

01:00:48.810 --> 01:00:50.730 can you talk a little bit about over

NOTE Confidence: 0.907840982666667

 $01:00:50.730 \longrightarrow 01:00:51.971$  the counter probiotics supplements

NOTE Confidence: 0.907840982666667

 $01:00:51.971 \longrightarrow 01:00:53.726$  and and their effectiveness or

NOTE Confidence: 0.907840982666667

01:00:53.726 --> 01:00:56.092 their your point of view on not

NOTE Confidence: 0.907840982666667

 $01:00:56.092 \longrightarrow 01:00:57.037$  taking probiotic supplements?

NOTE Confidence: 0.807450063333334

01:00:57.540 --> 01:01:03.120 OK, well uhm so pro biotic means for life,

NOTE Confidence: 0.807450063333334

 $01:01:03.120 \longrightarrow 01:01:05.991$  so anything that is a fermented food is going

NOTE Confidence: 0.807450063333334

 $01:01:05.991 \longrightarrow 01:01:08.975$  to have is what we would call a probiotic.

NOTE Confidence: 0.807450063333334

 $01:01:08.980 \longrightarrow 01:01:12.556$  It's got the bacteria in it.

NOTE Confidence: 0.807450063333334

01:01:12.560 --> 01:01:15.656 So through the process of fermentation,

NOTE Confidence: 0.807450063333334

 $01:01:15.660 \longrightarrow 01:01:17.754$  we actually drop the acid level

NOTE Confidence: 0.807450063333334

01:01:17.754 --> 01:01:20.780 of of the food so that only the

NOTE Confidence: 0.807450063333334

 $01:01:20.780 \longrightarrow 01:01:22.720$  bacteria that we really want.

 $01:01:22.720 \longrightarrow 01:01:25.360$  This is called lacto fermentation.

NOTE Confidence: 0.807450063333334

01:01:25.360 --> 01:01:26.635 The Lactobacillus those

NOTE Confidence: 0.807450063333334

 $01:01:26.635 \longrightarrow 01:01:28.760$  things are able to thrive,

NOTE Confidence: 0.807450063333334

01:01:28.760 --> 01:01:32.018 and virulent bacteria are killed off,

NOTE Confidence: 0.807450063333334

 $01:01:32.020 \longrightarrow 01:01:35.224$  so these become loaded with bacteria

NOTE Confidence: 0.807450063333334

 $01:01:35.224 \longrightarrow 01:01:39.510$  that we do want and so this would be

NOTE Confidence: 0.807450063333334

01:01:39.510 --> 01:01:42.715 considered a probiotic food, not a prebiotic.

NOTE Confidence: 0.807450063333334

 $01:01:42.715 \longrightarrow 01:01:45.408$  To feed this, it's it's.

NOTE Confidence: 0.807450063333334 01:01:45.408 --> 01:01:47.220 It's in here, NOTE Confidence: 0.807450063333334

 $01:01:47.220 \longrightarrow 01:01:49.876$  and so when we ingest it we are.

NOTE Confidence: 0.807450063333334

01:01:49.880 --> 01:01:53.219 We are helping to colonize our bacteria.

NOTE Confidence: 0.807450063333334

 $01:01:53.220 \longrightarrow 01:01:57.497$  It's the same when we drink kombucha.

NOTE Confidence: 0.807450063333334

 $01{:}01{:}57.500 \dashrightarrow 01{:}01{:}59.410$  You know we're getting another

NOTE Confidence: 0.807450063333334

 $01:01:59.410 \longrightarrow 01:02:01.830$  kind of of bacteria in there.

NOTE Confidence: 0.807450063333334

01:02:01.830 --> 01:02:03.560 I'm not promoting these brands,

 $01:02:03.560 \longrightarrow 01:02:06.332$  it's just what I had in my house because

NOTE Confidence: 0.807450063333334

 $01:02:06.332 \longrightarrow 01:02:08.865$  my kombucha is very easy to make,

NOTE Confidence: 0.807450063333334

 $01:02:08.870 \longrightarrow 01:02:13.720$  but mine is in need of a new batch and this.

NOTE Confidence: 0.807450063333334

 $01:02:13.720 \longrightarrow 01:02:16.762$  Is I wonder if I can that is

NOTE Confidence: 0.807450063333334

 $01:02:16.762 \longrightarrow 01:02:19.646$  the thing the actual.

NOTE Confidence: 0.807450063333334

 $01:02:19.650 \longrightarrow 01:02:24.020$  Scobie we call it that makes up.

NOTE Confidence: 0.807450063333334

 $01:02:24.020 \longrightarrow 01:02:28.458$  Dip colonizes and takes sugar and tea,

NOTE Confidence: 0.807450063333334

 $01:02:28.460 \longrightarrow 01:02:32.390$  and makes it into this.

NOTE Confidence: 0.807450063333334

 $01:02:32.390 \longrightarrow 01:02:35.302$  It consumes the sugar and the caffeine

NOTE Confidence: 0.807450063333334

 $01:02:35.302 \longrightarrow 01:02:38.196$  so that there's really no very little

NOTE Confidence: 0.807450063333334

 $01:02:38.196 \longrightarrow 01:02:41.096$  sugar or caffeine left and it becomes

NOTE Confidence: 0.807450063333334

01:02:41.096 --> 01:02:43.868 this probiotic rich food or drink.

NOTE Confidence: 0.807450063333334

 $01:02:43.870 \longrightarrow 01:02:45.735$  And actually sometimes if you

NOTE Confidence: 0.807450063333334

01:02:45.735 --> 01:02:47.600 have like that gurgly stomach

NOTE Confidence: 0.807450063333334

01:02:47.600 --> 01:02:49.686 and you per meeting and you sip

NOTE Confidence: 0.807450063333334

01:02:49.686 --> 01:02:51.808 a little bit of this kombucha,

 $01:02:51.810 \longrightarrow 01:02:55.040$  it can really settle that.

NOTE Confidence: 0.807450063333334

01:02:55.040 --> 01:02:55.250 You

NOTE Confidence: 0.946937089090909

01:02:55.260 --> 01:02:56.436 must have seen our next question

NOTE Confidence: 0.946937089090909

 $01:02:56.436 \longrightarrow 01:02:57.400$  because that's what it was.

NOTE Confidence: 0.946937089090909

01:02:57.400 --> 01:02:59.038 Joey, right? You're way ahead of us.

NOTE Confidence: 0.946937089090909

 $01:02:59.040 \longrightarrow 01:03:01.120$  The sugar question about whether

NOTE Confidence: 0.946937089090909

 $01:03:01.120 \longrightarrow 01:03:02.170$  or not there's any residual

NOTE Confidence: 0.946937089090909

 $01:03:02.170 \longrightarrow 01:03:04.744$  sugar left in kombucha and beer,

NOTE Confidence: 0.946937089090909

 $01:03:04.744 \longrightarrow 01:03:06.178$  but you just answered that it

NOTE Confidence: 0.946937089090909

 $01{:}03{:}06.178 \dashrightarrow 01{:}03{:}07.900$  eats the scobie in the process of

NOTE Confidence: 0.946937089090909

01:03:07.954 --> 01:03:09.676 fermenting eats most of that sugar,

NOTE Confidence: 0.946937089090909

01:03:09.680 --> 01:03:11.528 so the end product has very little right,

NOTE Confidence: 0.967241423333333

01:03:11.680 --> 01:03:13.420 right? But it does have some.

NOTE Confidence: 0.967241423333333

 $01:03:13.420 \longrightarrow 01:03:14.897$  It does have some you can taste,

NOTE Confidence: 0.967241423333333

 $01:03:14.900 \longrightarrow 01:03:17.532$  because when it doesn't,

 $01:03:17.532 \longrightarrow 01:03:19.506$  it becomes vinegar.

NOTE Confidence: 0.967241423333333

 $01{:}03{:}19.510 \dashrightarrow 01{:}03{:}22.170$  And you end up having something very

NOTE Confidence: 0.967241423333333

 $01:03:22.170 \longrightarrow 01:03:26.290$  very tart and almost not palatable.

NOTE Confidence: 0.967241423333333

 $01:03:26.290 \longrightarrow 01:03:28.580$  OK, so I think we've got let me see.

NOTE Confidence: 0.967241423333333

 $01:03:28.580 \longrightarrow 01:03:29.168$  There are a few

NOTE Confidence: 0.929085461578947

01:03:29.180 --> 01:03:31.034 others, but I want to make sure to give

NOTE Confidence: 0.929085461578947

 $01:03:31.034 \longrightarrow 01:03:33.112$  you time to show us some of what you have.

NOTE Confidence: 0.929085461578947

01:03:33.120 --> 01:03:34.905 You know on your counter there some

NOTE Confidence: 0.929085461578947

 $01:03:34.905 \longrightarrow 01:03:36.488$  of the beautiful things that we

NOTE Confidence: 0.929085461578947

01:03:36.488 --> 01:03:38.454 haven't seen yet and to talk about

NOTE Confidence: 0.929085461578947

 $01:03:38.454 \longrightarrow 01:03:40.740$  any of the other food recipe type

NOTE Confidence: 0.929085461578947

 $01:03:40.740 \longrightarrow 01:03:43.410$  things before we end at 5:15. So

NOTE Confidence: 0.929637024285714

 $01:03:43.450 \longrightarrow 01:03:47.265$  OK. Well, one of the things that.

NOTE Confidence: 0.929637024285714

 $01:03:47.270 \longrightarrow 01:03:49.004$  Hi really like first of all

NOTE Confidence: 0.929637024285714

 $01:03:49.004 \longrightarrow 01:03:50.934$  I'm going to tell you we

NOTE Confidence: 0.929637024285714

 $01:03:50.934 \longrightarrow 01:03:52.346$  have some local companies.

 $01:03:52.350 \longrightarrow 01:03:54.570$  I make my own sour crop.

NOTE Confidence: 0.929637024285714

01:03:54.570 --> 01:03:57.330 This is actually red cabbage,

NOTE Confidence: 0.929637024285714

 $01:03:57.330 \longrightarrow 01:03:59.460$  carrot, cilantro.

NOTE Confidence: 0.874961002083333

 $01:04:01.500 \longrightarrow 01:04:04.200$  Coriander seed and cumin seed in

NOTE Confidence: 0.874961002083333

 $01:04:04.200 \longrightarrow 01:04:07.508$  there and I make that and that's

NOTE Confidence: 0.874961002083333

 $01:04:07.508 \longrightarrow 01:04:10.791$  Mike Sauerkraut and I make that for

NOTE Confidence: 0.874961002083333

 $01:04:10.886 \longrightarrow 01:04:13.830$  eating with southwestern dishes.

NOTE Confidence: 0.874961002083333

 $01:04:13.830 \longrightarrow 01:04:17.330$  It's really good on.

NOTE Confidence: 0.874961002083333

 $01:04:17.330 \longrightarrow 01:04:22.566$  Tacos and fish tacos and regular tacos.

NOTE Confidence: 0.874961002083333

 $01:04:22.570 \longrightarrow 01:04:25.104$  But yeah, we have a few companies.

NOTE Confidence: 0.874961002083333

01:04:25.110 --> 01:04:27.450 This one is a local company.

NOTE Confidence: 0.874961002083333

 $01:04:27.450 \longrightarrow 01:04:29.930$  This is pretty expensive if you go look

NOTE Confidence: 0.874961002083333

 $01{:}04{:}29.930 \dashrightarrow 01{:}04{:}32.666$  at this is another one out of New York.

NOTE Confidence: 0.874961002083333

 $01{:}04{:}32.670 \dashrightarrow 01{:}04{:}35.310$  They're both cut considered local.

NOTE Confidence: 0.874961002083333

 $01:04:35.310 \longrightarrow 01:04:37.291$  This is a kimchi which is very

 $01:04:37.291 \longrightarrow 01:04:39.209$  spicy and this is a sauerkraut.

NOTE Confidence: 0.874961002083333

01:04:39.210 --> 01:04:41.214 So this one is Hawthorne Valley

NOTE Confidence: 0.874961002083333

 $01:04:41.214 \longrightarrow 01:04:43.549$  and this one is real Pickles.

NOTE Confidence: 0.874961002083333

 $01:04:43.550 \longrightarrow 01:04:46.224$  They are expensive if you look at

NOTE Confidence: 0.874961002083333

 $01:04:46.224 \longrightarrow 01:04:49.284$  the price for a jar like this is

NOTE Confidence: 0.874961002083333

01:04:49.284 --> 01:04:53.060 probably \$8 that you're using very.

NOTE Confidence: 0.874961002083333

 $01:04:53.060 \longrightarrow 01:04:55.780$  Little and so these last a long time

NOTE Confidence: 0.874961002083333

 $01:04:55.780 \longrightarrow 01:04:58.498$  and then once you learn to make it,

NOTE Confidence: 0.874961002083333

01:04:58.500 --> 01:05:03.788 it's so inexpensive to make your

NOTE Confidence: 0.874961002083333

 $01:05:03.788 \longrightarrow 01:05:08.870$  own sauerkraut fast easy fun.

NOTE Confidence: 0.874961002083333

 $01:05:08.870 \longrightarrow 01:05:10.796$  One year for Christmas we gave

NOTE Confidence: 0.874961002083333

01:05:10.796 --> 01:05:12.989 all our friends and family Crocs,

NOTE Confidence: 0.874961002083333

 $01{:}05{:}12.990 \dashrightarrow 01{:}05{:}15.706$  small Crocs and then for New Years

NOTE Confidence: 0.874961002083333

 $01:05:15.706 \longrightarrow 01:05:18.531$  we had a fermentation party and

NOTE Confidence: 0.874961002083333

 $01:05:18.531 \longrightarrow 01:05:20.436$  we all thought we taught them

NOTE Confidence: 0.874961002083333

 $01{:}05{:}20.436 \dashrightarrow 01{:}05{:}21.506$  all how to make sauerkraut.

 $01:05:21.510 \longrightarrow 01:05:25.010$  It was really fun and.

NOTE Confidence: 0.874961002083333

 $01{:}05{:}25.010 \dashrightarrow 01{:}05{:}26.505$  So ferment those ferments if

NOTE Confidence: 0.874961002083333

 $01:05:26.505 \dashrightarrow 01:05:28.590$  you don't want to make your own,

NOTE Confidence: 0.874961002083333

 $01:05:28.590 \longrightarrow 01:05:31.650$  you go get some and just have a little bit.

NOTE Confidence: 0.874961002083333

 $01:05:31.650 \longrightarrow 01:05:33.258$  I have to share a story.

NOTE Confidence: 0.874961002083333

 $01:05:33.260 \longrightarrow 01:05:34.720$  I have a friend.

NOTE Confidence: 0.874961002083333

 $01:05:34.720 \longrightarrow 01:05:37.713$  He is a scientist and he is a

NOTE Confidence: 0.874961002083333

 $01:05:37.713 \longrightarrow 01:05:40.002$  skeptic and came to my house one

NOTE Confidence: 0.874961002083333

 $01:05:40.002 \longrightarrow 01:05:42.860$  day when we were about to eat lunch.

NOTE Confidence: 0.874961002083333

01:05:42.860 --> 01:05:45.080 We had beautiful sourdough bread,

NOTE Confidence: 0.874961002083333

 $01:05:45.080 \longrightarrow 01:05:49.520$  true 24 hour fermentation and

NOTE Confidence: 0.874961002083333

 $01:05:49.520 \longrightarrow 01:05:52.451$  yay fermentation parties.

NOTE Confidence: 0.874961002083333

 $01:05:52.451 \longrightarrow 01:05:54.576$  Thanks so and.

NOTE Confidence: 0.874961002083333

 $01{:}05{:}54.576 \dashrightarrow 01{:}05{:}57.441$  With some really local beautiful

NOTE Confidence: 0.874961002083333

 $01:05:57.441 \longrightarrow 01:06:00.480$  cheddar cheese which is fermented,

 $01:06:00.480 \longrightarrow 01:06:02.680$  we had to asted that till it melted and

NOTE Confidence: 0.874961002083333

01:06:02.680 --> 01:06:04.409 then topped it with sauerkraut and

NOTE Confidence: 0.874961002083333

 $01:06:04.409 \longrightarrow 01:06:06.552$  when he walked in, he thought, Oh no,

NOTE Confidence: 0.874961002083333

01:06:06.552 --> 01:06:09.078 I'm going to have to eat lunch with them.

NOTE Confidence: 0.874961002083333

 $01:06:09.080 \longrightarrow 01:06:12.860$  And so we made him some.

NOTE Confidence: 0.874961002083333

 $01:06:12.860 \longrightarrow 01:06:16.472$  He at it, asked for seconds and.

NOTE Confidence: 0.874961002083333

 $01:06:16.472 \longrightarrow 01:06:18.668$  Told me later.

NOTE Confidence: 0.874961002083333

 $01:06:18.668 \longrightarrow 01:06:24.928$  That he was not clear what was different.

NOTE Confidence: 0.874961002083333

 $01:06:24.930 \longrightarrow 01:06:30.966$  But he felt different and he.

NOTE Confidence: 0.874961002083333

 $01:06:30.970 \longrightarrow 01:06:32.362$  He said there's no no way

NOTE Confidence: 0.874961002083333

 $01:06:32.362 \longrightarrow 01:06:33.570$  to put my finger out.

NOTE Confidence: 0.874961002083333

01:06:33.570 --> 01:06:36.846 This is not his personality to get

NOTE Confidence: 0.874961002083333

 $01:06:36.846 \longrightarrow 01:06:39.389$  excited about something like that and

NOTE Confidence: 0.874961002083333

 $01:06:39.390 \longrightarrow 01:06:41.028$  he has been fermenting ever since.

NOTE Confidence: 0.874961002083333

01:06:41.030 --> 01:06:43.070 That was maybe eight years ago,

NOTE Confidence: 0.874961002083333

 $01:06:43.070 \longrightarrow 01:06:47.366$  and he has fermented constantly since then,

 $01:06:47.366 \longrightarrow 01:06:51.427$  so it can make I've seen with with

NOTE Confidence: 0.874961002083333

 $01{:}06{:}51.427 \dashrightarrow 01{:}06{:}53.810$ clients I've seen some emotional

NOTE Confidence: 0.874961002083333

 $01:06:53.810 \longrightarrow 01:06:56.270$  things that seem to be helped

NOTE Confidence: 0.874961002083333

 $01:06:56.270 \longrightarrow 01:06:58.389$  by adding fermented foods,

NOTE Confidence: 0.874961002083333

 $01:06:58.390 \longrightarrow 01:07:00.998$  so it I've seen a lot of it.

NOTE Confidence: 0.874961002083333

01:07:01.000 --> 01:07:02.524 Uhm, I you cannot,

NOTE Confidence: 0.874961002083333

01:07:02.524 --> 01:07:04.810 though I don't think stay really

NOTE Confidence: 0.874961002083333

 $01:07:04.891 \longrightarrow 01:07:07.803$  healthy if you just don't want to cook.

NOTE Confidence: 0.874961002083333

 $01{:}07{:}07.810 \dashrightarrow 01{:}07{:}10.434$  I think it's just so hard these days.

NOTE Confidence: 0.874961002083333

 $01:07:10.440 \longrightarrow 01:07:13.674$  It's something we have to figure out

NOTE Confidence: 0.874961002083333

 $01:07:13.674 \longrightarrow 01:07:17.519$  how to fit back in and use it as a.

NOTE Confidence: 0.874961002083333

01:07:17.520 --> 01:07:19.620 A sense of of, well,

NOTE Confidence: 0.874961002083333 01:07:19.620 --> 01:07:20.604 first of all, NOTE Confidence: 0.874961002083333

 $01{:}07{:}20.604 \dashrightarrow 01{:}07{:}22.900$  privilege to be able to spend time

NOTE Confidence: 0.874961002083333

01:07:22.975 --> 01:07:25.315 cooking our food and really realize

 $01:07:25.315 \longrightarrow 01:07:27.850$  that we are fortunate and it tastes

NOTE Confidence: 0.874961002083333

 $01{:}07{:}27.850 \dashrightarrow 01{:}07{:}30.362$  so good when you get better at it.

NOTE Confidence: 0.874961002083333

 $01:07:30.362 \longrightarrow 01:07:33.980$  And it's a great thing to do with your

NOTE Confidence: 0.874961002083333

 $01:07:34.076 \longrightarrow 01:07:37.807$  friends that to fix meals together and.

NOTE Confidence: 0.874961002083333 01:07:37.810 --> 01:07:38.454 You know,

NOTE Confidence: 0.874961002083333

 $01{:}07{:}38.454 \dashrightarrow 01{:}07{:}41.030$  just sharing that it it feeds you on

NOTE Confidence: 0.898298446086957

 $01{:}07{:}41.108 \dashrightarrow 01{:}07{:}43.754$  that anti stress level and it feeds

NOTE Confidence: 0.898298446086957

 $01:07:43.754 \longrightarrow 01:07:46.089$  your microbiome on the happy level.

NOTE Confidence: 0.898298446086957

01:07:46.090 --> 01:07:48.314 It it just is far reaching but I

NOTE Confidence: 0.898298446086957

 $01:07:48.314 \longrightarrow 01:07:51.030$  just want to show you a few things so

NOTE Confidence: 0.898298446086957

 $01{:}07{:}51.030 \dashrightarrow 01{:}07{:}52.918$  this is something I grew this year.

NOTE Confidence: 0.898298446086957

 $01:07:52.918 \longrightarrow 01:07:55.248$  Can you see what is you have a guest?

NOTE Confidence: 0.898298446086957

 $01:07:55.250 \longrightarrow 01:07:56.937$  Nicole can you guess what that is?

NOTE Confidence: 0.880440632857143

 $01:07:57.120 \longrightarrow 01:07:58.597$  Oh let me see if anybody else

NOTE Confidence: 0.880440632857143

01:07:58.597 --> 01:08:00.198 wants to guess before I shout out.

NOTE Confidence: 0.8569188475

 $01:08:03.080 \longrightarrow 01:08:04.724$  It's hard to tell in this

 $01:08:04.724 \longrightarrow 01:08:06.339$  in assume I would have to

NOTE Confidence: 0.935771595

 $01:08:06.350 \longrightarrow 01:08:07.463$  guess. Maybe currents

NOTE Confidence: 0.935771595

 $01:08:07.463 \longrightarrow 01:08:09.318$  would be my first guest.

NOTE Confidence: 0.929979396666667

 $01:08:09.370 \longrightarrow 01:08:10.750$  Oh, that's a really good guess.

NOTE Confidence: 0.929979396666667

01:08:10.750 --> 01:08:14.530 These are actually cranberry beans,

NOTE Confidence: 0.929979396666667

 $01:08:14.530 \longrightarrow 01:08:15.425$  cranberry beans.

NOTE Confidence: 0.929979396666667

 $01:08:15.425 \longrightarrow 01:08:17.394$  OK, we got some raspberries.

NOTE Confidence: 0.929979396666667

 $01:08:17.394 \longrightarrow 01:08:19.470$  Yeah, there's stunning.

NOTE Confidence: 0.929979396666667

 $01:08:19.470 \longrightarrow 01:08:21.270$  They're just absolutely beautiful.

NOTE Confidence: 0.929979396666667

 $01:08:21.270 \longrightarrow 01:08:23.970$  They they're delicious in a soup.

NOTE Confidence: 0.929979396666667

 $01:08:23.970 \longrightarrow 01:08:25.430$  They're really easy to grow.

NOTE Confidence: 0.929979396666667

 $01:08:25.430 \longrightarrow 01:08:26.405$  They were pulled.

NOTE Confidence: 0.929979396666667

01:08:26.405 --> 01:08:28.030 They grow as whole beings,

NOTE Confidence: 0.929979396666667

 $01{:}08{:}28.030 \dashrightarrow 01{:}08{:}32.094$  and legumes are one of our big hitters.

NOTE Confidence: 0.929979396666667

 $01:08:32.100 \longrightarrow 01:08:34.530$  For fiber, they really are.

01:08:34.530 --> 01:08:35.652 They're inexpensive,

NOTE Confidence: 0.929979396666667

 $01:08:35.652 \longrightarrow 01:08:40.790$  they add body and and meat to a dish,

NOTE Confidence: 0.929979396666667

01:08:40.790 --> 01:08:42.520 so making a soup and

NOTE Confidence: 0.929979396666667

 $01:08:42.520 \longrightarrow 01:08:44.250$  finding ways to add beads.

NOTE Confidence: 0.929979396666667

 $01:08:44.250 \longrightarrow 01:08:46.750$  These are cranberry beads.

NOTE Confidence: 0.929979396666667 01:08:46.750 --> 01:08:48.000 These are. NOTE Confidence: 0.929979396666667

 $01{:}08{:}48.000 \dashrightarrow 01{:}08{:}51.087$  My black beans I grew this year

NOTE Confidence: 0.929979396666667

 $01:08:51.087 \longrightarrow 01:08:54.698$  and and they too are so much

NOTE Confidence: 0.929979396666667

 $01{:}08{:}54.698 \dashrightarrow 01{:}08{:}57.428$  sweeter and delicious in Mexican,

NOTE Confidence: 0.929979396666667

 $01:08:57.430 \longrightarrow 01:09:02.388$  you know southwestern dishes and just really,

NOTE Confidence: 0.929979396666667

 $01:09:02.388 \longrightarrow 01:09:04.758$  really add a lot here.

NOTE Confidence: 0.929979396666667

 $01:09:04.760 \longrightarrow 01:09:08.750$  We have the red lentilles that

NOTE Confidence: 0.929979396666667

 $01:09:08.750 \longrightarrow 01:09:11.780$  add beauty to a lentil soup.

NOTE Confidence: 0.929979396666667

 $01:09:11.780 \longrightarrow 01:09:14.129$  Here are the.

NOTE Confidence: 0.929979396666667

 $01:09:14.130 \longrightarrow 01:09:14.940$  These are actually

NOTE Confidence: 0.834341225

 $01:09:14.950 \longrightarrow 01:09:16.978$  the little French lentilles

 $01:09:17.680 \longrightarrow 01:09:22.670$  in here. Let me just hold him up there.

NOTE Confidence: 0.8923208375

01:09:22.670 --> 01:09:24.930 Yeah, I'm not going to be able to show you.

NOTE Confidence: 0.8923208375

 $01:09:24.930 \longrightarrow 01:09:25.890$  Can you see those?

NOTE Confidence: 0.8923208375

 $01:09:25.890 \longrightarrow 01:09:28.528$  Yes yeah, so the lentils.

NOTE Confidence: 0.8923208375

 $01{:}09{:}28.528 \dashrightarrow 01{:}09{:}31.324$  So lentil soup and and bazillions

NOTE Confidence: 0.8923208375

 $01:09:31.324 \longrightarrow 01:09:33.230$  of recipes online.

NOTE Confidence: 0.8923208375

01:09:33.230 --> 01:09:36.587 All you have to do is type in lentils

NOTE Confidence: 0.8923208375

 $01:09:36.587 \longrightarrow 01:09:40.148$  and soup and you get a 10,000 recipes.

NOTE Confidence: 0.8923208375

 $01:09:40.150 \longrightarrow 01:09:42.706$  So anything that adds these beans.

NOTE Confidence: 0.8923208375

 $01:09:42.710 \longrightarrow 01:09:44.864$  Here are chickpeas.

NOTE Confidence: 0.8923208375

01:09:44.864 --> 01:09:49.513 If you like hummus, adding these into

NOTE Confidence: 0.8923208375

 $01:09:49.513 \longrightarrow 01:09:54.118$  a Mediterranean type dish, you know soup.

NOTE Confidence: 0.8923208375

 $01{:}09{:}54.118 \dashrightarrow 01{:}09{:}57.848$  It's fabulous all these vegetables.

NOTE Confidence: 0.8923208375

 $01:09:57.850 \longrightarrow 01:09:58.756$  You can add.

NOTE Confidence: 0.8923208375

01:09:58.756 --> 01:10:00.266 You know you've got your

 $01:10:00.266 \longrightarrow 01:10:01.709$  squashes this time of year,

NOTE Confidence: 0.8923208375

 $01{:}10{:}01.710 \dashrightarrow 01{:}10{:}03.760$  making this squash soup and

NOTE Confidence: 0.8923208375

 $01:10:03.760 \longrightarrow 01:10:05.810$  adding some being to it.

NOTE Confidence: 0.8923208375

 $01:10:05.810 \longrightarrow 01:10:08.426$  So now you've got the fibers

NOTE Confidence: 0.8923208375

 $01:10:08.430 \longrightarrow 01:10:09.714$  for different sources.

NOTE Confidence: 0.8923208375

 $01:10:09.714 \longrightarrow 01:10:12.710$  All of the tomatoes that are out

NOTE Confidence: 0.8923208375

 $01:10:12.796 \longrightarrow 01:10:15.680$  there right now from the farm stands.

NOTE Confidence: 0.7579514

 $01:10:19.380 \longrightarrow 01:10:25.692$  Shallot onions. Garlic that is just

NOTE Confidence: 0.7579514

 $01:10:25.692 \longrightarrow 01:10:30.637$  prolific right now and so beneficial for

NOTE Confidence: 0.7579514

01:10:30.637 --> 01:10:33.416 our my our microbial health and our.

NOTE Confidence: 0.897066275

01:10:36.730 --> 01:10:38.005 Our health overall,

NOTE Confidence: 0.897066275

 $01:10:38.005 \longrightarrow 01:10:40.980$  so it's interesting with garlic is that

NOTE Confidence: 0.897066275

01:10:41.061 --> 01:10:46.568 garlic has been found to be as effective, uh?

NOTE Confidence: 0.897066275

 $01:10:46.570 \longrightarrow 01:10:50.240$  Antibiotic as tetracycline and penicillin.

NOTE Confidence: 0.897066275

01:10:50.240 --> 01:10:53.509 It actually in clinical studies has shown

NOTE Confidence: 0.897066275

 $01:10:53.509 \longrightarrow 01:10:56.749$  to lower blood pressure cholesterol.

01:10:56.750 --> 01:10:58.424 High blood pressure.

NOTE Confidence: 0.897066275

01:10:58.424 --> 01:11:00.656 It's it's really powerful,

NOTE Confidence: 0.897066275

 $01:11:00.660 \longrightarrow 01:11:03.761$  but the medicine that actually does

NOTE Confidence: 0.897066275

 $01:11:03.761 \longrightarrow 01:11:06.688$  that doesn't exist in here right now.

NOTE Confidence: 0.897066275

 $01:11:06.690 \longrightarrow 01:11:10.386$  This that medicine that has that

NOTE Confidence: 0.897066275

01:11:10.386 --> 01:11:13.420 medicinal property doesn't exist until

NOTE Confidence: 0.897066275

 $01:11:13.420 \longrightarrow 01:11:16.600$  we break this garlic clove open.

NOTE Confidence: 0.897066275

 $01:11:16.600 \longrightarrow 01:11:19.113$  When you take a clove of garlic

NOTE Confidence: 0.897066275

 $01:11:19.113 \longrightarrow 01:11:21.948$  and you you smash it or chop it,

NOTE Confidence: 0.897066275

 $01:11:21.950 \longrightarrow 01:11:25.142$  or do whatever you're going to do the

NOTE Confidence: 0.897066275

 $01{:}11{:}25.142 \dashrightarrow 01{:}11{:}28.059$  exposure to oxygen actually causes a.

NOTE Confidence: 0.897066275

 $01{:}11{:}28.060 \dashrightarrow 01{:}11{:}30.970$  A chemical reaction and oxidative

NOTE Confidence: 0.897066275

 $01:11:30.970 \longrightarrow 01:11:33.791$  chemical reaction that does 11:50

NOTE Confidence: 0.897066275

 $01:11:33.791 \longrightarrow 01:11:36.246$  different enzymatic changes and it's

NOTE Confidence: 0.897066275

 $01:11:36.246 \longrightarrow 01:11:40.198$  so it starts as Alan in and develops

01:11:40.198 --> 01:11:43.042 into Allison which is the medicinal

NOTE Confidence: 0.897066275

 $01:11:43.134 \longrightarrow 01:11:46.606$  part of that and The thing is is

NOTE Confidence: 0.897066275

 $01:11:46.606 \longrightarrow 01:11:49.780$  we find it doesn't really come.

NOTE Confidence: 0.897066275

 $01:11:49.780 \longrightarrow 01:11:51.748$  It it you know it's so we call

NOTE Confidence: 0.897066275

01:11:51.748 --> 01:11:53.340 it anti microbial right?

NOTE Confidence: 0.897066275

 $01:11:53.340 \longrightarrow 01:11:56.581$  Because it's anti it's it's effective as

NOTE Confidence: 0.897066275

 $01:11:56.581 \longrightarrow 01:11:59.293$  effective an antibiotic but it doesn't

NOTE Confidence: 0.897066275

 $01:11:59.293 \longrightarrow 01:12:01.920$  seem to affect negatively our microbiome.

NOTE Confidence: 0.897066275

 $01{:}12{:}01.920 \dashrightarrow 01{:}12{:}04.345$  So quite remarkable because we've

NOTE Confidence: 0.897066275

 $01:12:04.345 \longrightarrow 01:12:06.897$  evolved with that and the microbes

NOTE Confidence: 0.897066275

 $01:12:06.897 \longrightarrow 01:12:09.668$  in our body and the foods they we

NOTE Confidence: 0.897066275

 $01:12:09.668 \longrightarrow 01:12:12.180$  we it it knows how to work together.

NOTE Confidence: 0.897066275

 $01:12:12.180 \longrightarrow 01:12:15.036$  It's just it we've evolved together.

NOTE Confidence: 0.897066275

 $01:12:15.040 \longrightarrow 01:12:17.132$  So it's quite remarkable,

NOTE Confidence: 0.897066275

01:12:17.132 --> 01:12:19.224 quite fascinating and exciting.

NOTE Confidence: 0.897066275 01:12:19.230 --> 01:12:19.740 Also

01:12:19.750 --> 01:12:21.346 interesting, and it all looks so

NOTE Confidence: 0.947141148181818

 $01:12:21.346 \longrightarrow 01:12:22.810$  good behind you that I'm sure

NOTE Confidence: 0.947141148181818

 $01:12:22.810 \longrightarrow 01:12:24.128$  that we all wish we were coming

NOTE Confidence: 0.947141148181818

01:12:24.128 --> 01:12:25.244 to your house for dinner tonight.

NOTE Confidence: 0.801350978

01:12:25.260 --> 01:12:27.430 Gel we have no, I don't know if you do.

NOTE Confidence: 0.801350978

 $01:12:27.430 \longrightarrow 01:12:29.950$  There are nights where you I'm not sure

NOTE Confidence: 0.801350978

01:12:29.950 --> 01:12:32.250 mushrooms or the other one I wanted to

NOTE Confidence: 0.801350978

 $01:12:32.250 \longrightarrow 01:12:35.385$  mention this was a this is a mitaki or

NOTE Confidence: 0.801350978

 $01:12:35.385 \longrightarrow 01:12:38.530$  head of the woods that we have forged

NOTE Confidence: 0.801350978

 $01:12:38.530 \longrightarrow 01:12:40.690$  for mushrooms or prolific this year.

NOTE Confidence: 0.801350978

 $01{:}12{:}40.690 \dashrightarrow 01{:}12{:}42.706$  I don't recommend doing that unless

NOTE Confidence: 0.801350978

01:12:42.706 --> 01:12:45.128 you're experienced and or go with people

NOTE Confidence: 0.801350978

 $01{:}12{:}45.128 \to 01{:}12{:}46.818$  who are experienced but mushrooms.

NOTE Confidence: 0.801350978

 $01:12:46.820 \longrightarrow 01:12:52.596$  Actually I had something here I wanted to.

NOTE Confidence: 0.801350978

 $01:12:52.600 \longrightarrow 01:12:56.720$  Say that they actually come.

01:12:56.720 --> 01:12:59.764 Change cell proliferation have

NOTE Confidence: 0.801350978

 $01:12:59.764 \longrightarrow 01:13:03.569$  anti inflammatory and anti tumor

NOTE Confidence: 0.801350978

 $01{:}13{:}03.569 \dashrightarrow 01{:}13{:}06.115$  tumorigenic effects on mushrooms.

NOTE Confidence: 0.801350978

 $01:13:06.115 \longrightarrow 01:13:07.900$  That's in research.

NOTE Confidence: 0.801350978

 $01:13:07.900 \longrightarrow 01:13:11.300$  These mushrooms are being studied.

NOTE Confidence: 0.801350978

 $01:13:11.300 \longrightarrow 01:13:14.720$  Extensively on for the microbiome,

NOTE Confidence: 0.801350978

 $01:13:14.720 \longrightarrow 01:13:17.540$  the immune system.

NOTE Confidence: 0.801350978

 $01:13:17.540 \longrightarrow 01:13:21.439$  For for Cancer Research and it is

NOTE Confidence: 0.801350978

01:13:21.440 --> 01:13:26.690 just incredibly prolific right now,

NOTE Confidence: 0.801350978

 $01:13:26.690 \longrightarrow 01:13:30.464$  and so you can get those local

NOTE Confidence: 0.801350978

 $01{:}13{:}30.464 \dashrightarrow 01{:}13{:}32.948$  mushrooms you can in the stores

NOTE Confidence: 0.801350978

 $01:13:32.948 \longrightarrow 01:13:35.941$  now even the shataiki shikaki are

NOTE Confidence: 0.801350978

01:13:35.941 --> 01:13:39.259 incredibly great for the immune system,

NOTE Confidence: 0.801350978

 $01:13:39.260 \longrightarrow 01:13:41.157$  so adding some of those to your

NOTE Confidence: 0.801350978

 $01:13:41.157 \longrightarrow 01:13:42.770$  soup is a great idea.

NOTE Confidence: 0.820331194

01:13:44.180 --> 01:13:46.270 It will certainly. Yeah, yeah,

01:13:46.270 --> 01:13:48.550 it'll be interesting to see how you know.

NOTE Confidence: 0.820331194

 $01:13:48.550 \longrightarrow 01:13:50.438$  Overtime the research is

NOTE Confidence: 0.820331194

 $01:13:50.438 \longrightarrow 01:13:52.326$  presented on these compounds,

NOTE Confidence: 0.820331194

 $01:13:52.330 \longrightarrow 01:13:53.656$  certainly not to be a replacement

NOTE Confidence: 0.820331194

 $01:13:53.656 \longrightarrow 01:13:55.349$  for any of our current medications

NOTE Confidence: 0.820331194

 $01:13:55.349 \longrightarrow 01:13:56.390$  or therapies, right?

NOTE Confidence: 0.820331194

 $01:13:56.390 \longrightarrow 01:13:58.990$  But as an addition to you know in

NOTE Confidence: 0.820331194

 $01:13:58.990 \longrightarrow 01:14:00.390$  in conjunction with those things

NOTE Confidence: 0.820331194

 $01:14:00.390 \longrightarrow 01:14:02.071$  that we can do things for

NOTE Confidence: 0.820331194

01:14:02.071 --> 01:14:03.416 ourselves in our own kitchen,

NOTE Confidence: 0.920542473333334

 $01:14:03.720 \longrightarrow 01:14:05.470$  right? And they're not meant to take

NOTE Confidence: 0.920542473333334

 $01:14:05.470 \longrightarrow 01:14:08.255$  the place, and none of these foods

NOTE Confidence: 0.920542473333334

 $01{:}14{:}08.255 \dashrightarrow 01{:}14{:}11.320$  are foods are really important in our

NOTE Confidence: 0.920542473333334

01:14:11.320 --> 01:14:14.096 lives and in how to live a healthy

NOTE Confidence: 0.920542473333334

 $01:14:14.182 \longrightarrow 01:14:17.059$  life or how to regain some health.

 $01:14:17.060 \longrightarrow 01:14:18.824$  But they are never meant they

NOTE Confidence: 0.920542473333334

 $01:14:18.824 \longrightarrow 01:14:20.860$  had met what we like to say.

NOTE Confidence: 0.920542473333334

 $01:14:20.860 \longrightarrow 01:14:21.584$  Medicine in the food.

NOTE Confidence: 0.920542473333334

 $01:14:21.584 \longrightarrow 01:14:22.955$  That's where a lot of our medicines

NOTE Confidence: 0.920542473333334

 $01:14:22.955 \longrightarrow 01:14:25.648$  have come from. Our from our foods.

NOTE Confidence: 0.920542473333334

01:14:25.648 --> 01:14:27.616 It doesn't mean replace.

NOTE Confidence: 0.920542473333334

 $01:14:27.620 \longrightarrow 01:14:30.104$  It means in conjunction

NOTE Confidence: 0.920542473333334

 $01:14:30.104 \longrightarrow 01:14:31.967$  it means preventative.

NOTE Confidence: 0.920542473333334

 $01:14:31.970 \longrightarrow 01:14:35.498$  Maybe that if eating really well can

NOTE Confidence: 0.920542473333334

01:14:35.498 --> 01:14:38.386 help prevent certain issues, it it.

NOTE Confidence: 0.920542473333334

 $01:14:38.386 \longrightarrow 01:14:40.717$  I would never suggest that someone say

NOTE Confidence: 0.920542473333334

 $01{:}14{:}40.717 \dashrightarrow 01{:}14{:}43.498$  I'm throwing that medicine out and I'm

NOTE Confidence: 0.920542473333334

 $01:14:43.498 \longrightarrow 01:14:45.499$  gonna start being garlic every day.

NOTE Confidence: 0.920542473333334

01:14:45.499 --> 01:14:47.314 I would say eat garlic.

NOTE Confidence: 0.920542473333334

01:14:47.320 --> 01:14:50.584 Along with it, and make your soup said,

NOTE Confidence: 0.920542473333334

 $01:14:50.590 \longrightarrow 01:14:52.480$  yeah, for sure with point.

 $01:14:52.480 \longrightarrow 01:14:52.930$  Yeah.

NOTE Confidence: 0.903016375

01:14:52.940 --> 01:14:54.578 Well thank you so much Joan.

NOTE Confidence: 0.903016375

 $01:14:54.580 \longrightarrow 01:14:56.822$  This has been amazing and there's

NOTE Confidence: 0.903016375

 $01:14:56.822 \longrightarrow 01:14:58.439$  so much great feedback in the chat.

NOTE Confidence: 0.903016375

 $01:14:58.440 \longrightarrow 01:14:59.872$  We are at times so I want to

NOTE Confidence: 0.903016375

 $01:14:59.872 \longrightarrow 01:15:01.278$  make sure to respect your time.

NOTE Confidence: 0.903016375

 $01:15:01.280 \longrightarrow 01:15:02.240$  Joan and everyone else

NOTE Confidence: 0.903016375

 $01:15:02.240 \longrightarrow 01:15:03.440$  who's been with us today.

NOTE Confidence: 0.903016375

 $01:15:03.440 \longrightarrow 01:15:05.419$  Thank you so much for this

NOTE Confidence: 0.903016375

 $01:15:05.419 \longrightarrow 01:15:08.064$  enlightening presentation and all your

NOTE Confidence: 0.903016375

 $01{:}15{:}08.064 \dashrightarrow 01{:}15{:}10.859$  information that you shared with us.

NOTE Confidence: 0.903016375

 $01:15:10.860 \longrightarrow 01:15:12.180$  I know we all look forward to going

NOTE Confidence: 0.903016375

 $01{:}15{:}12.180 \dashrightarrow 01{:}15{:}13.460$  home and putting it into practice

NOTE Confidence: 0.949081118666667

 $01:15:13.470 \longrightarrow 01:15:15.654$  in our kitchens. Yeah, thank you for

NOTE Confidence: 0.949081118666667

01:15:15.654 --> 01:15:18.350 taking the time today to to join me. Thank

 $01:15:18.360 \longrightarrow 01:15:20.340$  you and thank you all for joining us and

NOTE Confidence: 0.930177217333333

 $01{:}15{:}20.340 \dashrightarrow 01{:}15{:}22.520$  for your wonderful questions and comments.

NOTE Confidence: 0.930177217333333

 $01:15:22.520 \longrightarrow 01:15:24.942$  Please do complete the evaluation for the

NOTE Confidence: 0.930177217333333

01:15:24.942 --> 01:15:26.760 program that you'll get automatically

NOTE Confidence: 0.930177217333333

 $01:15:26.760 \longrightarrow 01:15:29.266$  after and send us any feedback or

NOTE Confidence: 0.930177217333333

 $01{:}15{:}29.266 \dashrightarrow 01{:}15{:}30.837$  information for future topics and

NOTE Confidence: 0.930177217333333

 $01:15:30.837 \longrightarrow 01:15:33.454$  we look forward to seeing you all on

NOTE Confidence: 0.930177217333333

 $01:15:33.454 \longrightarrow 01:15:35.639$  a future Smilow Wellness workshop.

NOTE Confidence: 0.930177217333333

01:15:35.640 --> 01:15:37.242 Have a great evening everyone and

NOTE Confidence: 0.930177217333333

 $01:15:37.242 \longrightarrow 01:15:39.000$  thank you all for being apart.