

WEBVTT

NOTE duration:"01:03:23.1150000"

NOTE language:en-us

NOTE Confidence: 0.79820174

00:00:08.800 --> 00:00:11.496 Hello and welcome to Science et al podcast,

NOTE Confidence: 0.79820174

00:00:11.500 --> 00:00:12.852 but everything science sponsored

NOTE Confidence: 0.79820174

00:00:12.852 --> 00:00:14.880 by the Yale School of Medicine.

NOTE Confidence: 0.79820174

00:00:14.880 --> 00:00:16.570 I'm your host, Daniel Barron.

NOTE Confidence: 0.79820174

00:00:16.570 --> 00:00:18.640 And in this episode I'm

NOTE Confidence: 0.79820174

00:00:18.640 --> 00:00:20.296 speaking with Robert Bazell.

NOTE Confidence: 0.79820174

00:00:20.300 --> 00:00:23.600 Robert or Bob as he asked me to call him,

NOTE Confidence: 0.79820174

00:00:23.600 --> 00:00:25.250 worked his NBC's chief science

NOTE Confidence: 0.79820174

00:00:25.250 --> 00:00:26.570 correspondent for 38 years.

NOTE Confidence: 0.79820174

00:00:26.570 --> 00:00:28.880 In that capacity, Bob and many awards,

NOTE Confidence: 0.79820174

00:00:28.880 --> 00:00:30.200 including five Emmy Awards,

NOTE Confidence: 0.79820174

00:00:30.200 --> 00:00:32.530 the Peabody Award, and the DuPont Award.

NOTE Confidence: 0.79820174

00:00:32.530 --> 00:00:34.205 He also authored a bestselling

NOTE Confidence: 0.79820174

00:00:34.205 --> 00:00:35.480 book called her two,

NOTE Confidence: 0.79820174

00:00:35.480 --> 00:00:37.130 The Making of a revolutionary

NOTE Confidence: 0.79820174

00:00:37.130 --> 00:00:38.450 treatment for breast Cancer,

NOTE Confidence: 0.79820174

00:00:38.450 --> 00:00:41.719 which was adapted as a TV film.

NOTE Confidence: 0.79820174

00:00:41.720 --> 00:00:44.138 Now Bob is supposedly formally retired,

NOTE Confidence: 0.79820174

00:00:44.140 --> 00:00:46.258 even though he's quite busy at

NOTE Confidence: 0.79820174

00:00:46.258 --> 00:00:47.670 yells Department of Molecular

NOTE Confidence: 0.79820174

00:00:47.736 --> 00:00:49.800 Cellular and Developmental Biology,

NOTE Confidence: 0.79820174

00:00:49.800 --> 00:00:52.225 where he spends his time mentoring

NOTE Confidence: 0.79820174

00:00:52.225 --> 00:00:53.482 aspiring journalist scientists.

NOTE Confidence: 0.79820174

00:00:53.482 --> 00:00:56.038 An anyone who wants to communicate

NOTE Confidence: 0.79820174

00:00:56.038 --> 00:00:57.878 more effectively with the public,

NOTE Confidence: 0.79820174

00:00:57.880 --> 00:00:58.696 including myself.

NOTE Confidence: 0.79820174

00:00:58.696 --> 00:01:00.736 I ran into Bob's Science

NOTE Confidence: 0.79820174

00:01:00.736 --> 00:01:02.360 journalism panel at Yale,

NOTE Confidence: 0.79820174

00:01:02.360 --> 00:01:05.064 where he was one of the primary panelists.

NOTE Confidence: 0.79820174

00:01:05.070 --> 00:01:07.443 I had never met him in person
NOTE Confidence: 0.79820174

00:01:07.443 --> 00:01:08.800 and didn't recognize him,
NOTE Confidence: 0.79820174

00:01:08.800 --> 00:01:11.120 but instantly recognized his voice.
NOTE Confidence: 0.79820174

00:01:11.120 --> 00:01:12.940 And after the panel discussion,
NOTE Confidence: 0.79820174

00:01:12.940 --> 00:01:14.750 I Googled Bob and reviewed
NOTE Confidence: 0.79820174

00:01:14.750 --> 00:01:16.198 some of his videos,
NOTE Confidence: 0.79820174

00:01:16.200 --> 00:01:18.015 some of which I still
NOTE Confidence: 0.79820174

00:01:18.015 --> 00:01:19.467 remembered from decades before.
NOTE Confidence: 0.79820174

00:01:19.470 --> 00:01:21.966 It was kind of strange to see him
NOTE Confidence: 0.79820174

00:01:21.966 --> 00:01:24.513 with Bill Clinton and a lot of
NOTE Confidence: 0.79820174

00:01:24.513 --> 00:01:26.363 the AIDS and cancer treatments
NOTE Confidence: 0.79820174

00:01:26.436 --> 00:01:28.536 and the Human Genome Project.
NOTE Confidence: 0.79820174

00:01:28.540 --> 00:01:30.718 It was really, it was really.
NOTE Confidence: 0.79820174

00:01:30.720 --> 00:01:32.172 It was really fascinating.
NOTE Confidence: 0.79820174

00:01:32.172 --> 00:01:33.987 Bob's had an enormous impact,
NOTE Confidence: 0.79820174

00:01:33.990 --> 00:01:36.854 only that I and I suppose many of

NOTE Confidence: 0.79820174

00:01:36.854 --> 00:01:39.768 listeners think about and appreciate science.

NOTE Confidence: 0.79820174

00:01:39.770 --> 00:01:42.632 It was a real honor to speak with Bob

NOTE Confidence: 0.79820174

00:01:42.632 --> 00:01:45.765 about his work and to see from his eyes at,

NOTE Confidence: 0.79820174

00:01:45.770 --> 00:01:46.342 you know,

NOTE Confidence: 0.79820174

00:01:46.342 --> 00:01:48.344 the 10,000 foot view how he views

NOTE Confidence: 0.79820174

00:01:48.344 --> 00:01:50.063 science and how science meshes

NOTE Confidence: 0.79820174

00:01:50.063 --> 00:01:51.778 with politics and public policy,

NOTE Confidence: 0.79820174

00:01:51.780 --> 00:01:53.990 social movements and with the

NOTE Confidence: 0.79820174

00:01:53.990 --> 00:01:55.316 scientific community itself.

NOTE Confidence: 0.79820174

00:01:55.320 --> 00:01:56.284 So here we go.

NOTE Confidence: 0.79820174

00:01:56.284 --> 00:01:57.007 Thanks again to

NOTE Confidence: 0.7824275

00:02:06.640 --> 00:02:09.363 Well, thank you for coming and for

NOTE Confidence: 0.7824275

00:02:09.363 --> 00:02:12.250 letting me pick your brain yet again.

NOTE Confidence: 0.7824275

00:02:12.250 --> 00:02:14.661 It was really interesting so I

NOTE Confidence: 0.7824275

00:02:14.661 --> 00:02:17.067 had not really met you formally,

NOTE Confidence: 0.7824275

00:02:17.070 --> 00:02:19.758 but I first I could say heard your
NOTE Confidence: 0.7824275

00:02:19.758 --> 00:02:22.450 voice from the back of a lecture
NOTE Confidence: 0.7824275

00:02:22.450 --> 00:02:24.996 Hall during a panel discussion with
NOTE Confidence: 0.7824275

00:02:24.996 --> 00:02:27.088 Carl Zimmer Anneliese Sanders,
NOTE Confidence: 0.7824275

00:02:27.090 --> 00:02:29.530 an I recognized your voice.
NOTE Confidence: 0.7824275

00:02:29.530 --> 00:02:30.898 Really quite quickly actually.
NOTE Confidence: 0.7824275

00:02:30.898 --> 00:02:33.032 So I was like, oh, wow,
NOTE Confidence: 0.7824275

00:02:33.032 --> 00:02:36.972 I know this guy and so after that I just
NOTE Confidence: 0.7824275

00:02:36.972 --> 00:02:40.164 I did what I think by your definition
NOTE Confidence: 0.7824275

00:02:40.260 --> 00:02:43.617 would be a not quite a deep dive but.
NOTE Confidence: 0.7824275

00:02:43.620 --> 00:02:45.948 Dipping my toe in the finger
NOTE Confidence: 0.7824275

00:02:45.948 --> 00:02:48.259 of your huge body of work.
NOTE Confidence: 0.7824275

00:02:48.260 --> 00:02:50.590 And obviously you've reported on
NOTE Confidence: 0.7824275

00:02:50.590 --> 00:02:53.629 far more than 4000 stories and I
NOTE Confidence: 0.7824275

00:02:53.629 --> 00:02:56.149 was able to go on to NBC's website
NOTE Confidence: 0.7824275

00:02:56.237 --> 00:02:58.778 and watch some of the videos that

NOTE Confidence: 0.7824275
00:02:58.778 --> 00:03:01.418 you had made like some of the
NOTE Confidence: 0.7824275
00:03:01.418 --> 00:03:03.740 reporting you did for the TV.
NOTE Confidence: 0.7824275
00:03:03.740 --> 00:03:04.130 By
NOTE Confidence: 0.85980755
00:03:04.130 --> 00:03:07.226 the way, if you want to see videos
NOTE Confidence: 0.85980755
00:03:07.226 --> 00:03:10.332 from history, you can open the
NOTE Confidence: 0.85980755
00:03:10.332 --> 00:03:12.664 Yale Library and Vanderbilt.
NOTE Confidence: 0.85980755
00:03:12.670 --> 00:03:14.910 Library has an archive of every television
NOTE Confidence: 0.85980755
00:03:14.910 --> 00:03:17.008 show that's been produced since 1968,
NOTE Confidence: 0.85980755
00:03:17.010 --> 00:03:20.348 and you go live stream it. I had no idea,
NOTE Confidence: 0.85980755
00:03:20.348 --> 00:03:22.358 so you can watch just everything.
NOTE Confidence: 0.85980755
00:03:22.360 --> 00:03:23.688 You can watch everything.
NOTE Confidence: 0.85980755
00:03:23.690 --> 00:03:25.695 Well, let's pick a moment in
NOTE Confidence: 0.85980755
00:03:25.695 --> 00:03:27.363 history that's kind of scary.
NOTE Confidence: 0.85980755
00:03:27.363 --> 00:03:28.029 Actually, there's
NOTE Confidence: 0.8667173
00:03:28.030 --> 00:03:30.710 a lot of junk on television. There's a
NOTE Confidence: 0.8667173

00:03:30.710 --> 00:03:33.707 lot of junk, but it also is for me.
NOTE Confidence: 0.8667173

00:03:33.710 --> 00:03:35.375 It's been a very useful
NOTE Confidence: 0.8667173

00:03:35.375 --> 00:03:36.374 tool for undergraduates,
NOTE Confidence: 0.8667173

00:03:36.380 --> 00:03:38.718 because if I'm teaching a course on,
NOTE Confidence: 0.8667173

00:03:38.720 --> 00:03:40.730 say, the history of HIV AIDS,
NOTE Confidence: 0.8667173

00:03:40.730 --> 00:03:42.560 which I'm doing now, or.
NOTE Confidence: 0.8667173

00:03:42.560 --> 00:03:45.593 Events in public health that I take it back,
NOTE Confidence: 0.8667173

00:03:45.600 --> 00:03:48.547 take them back and show them these.
NOTE Confidence: 0.8667173

00:03:48.550 --> 00:03:50.934 Videos 'cause I wouldn't have access to them.
NOTE Confidence: 0.8667173

00:03:50.940 --> 00:03:53.324 NBC owns them, but I can show it,
NOTE Confidence: 0.8667173

00:03:53.330 --> 00:03:56.066 show it to them and they are absolutely
NOTE Confidence: 0.8667173

00:03:56.066 --> 00:03:58.426 fascinated to hear the inside story of.
NOTE Confidence: 0.8667173

00:03:58.430 --> 00:04:00.495 How this happened and then to see
NOTE Confidence: 0.8667173

00:04:00.495 --> 00:04:02.344 the people that they're not just
NOTE Confidence: 0.8667173

00:04:02.344 --> 00:04:04.451 reading about it in an article or
NOTE Confidence: 0.8667173

00:04:04.513 --> 00:04:06.494 at a Journal article or a popular

NOTE Confidence: 0.834787

00:04:06.500 --> 00:04:08.300 article, many of whom you interviewed?

NOTE Confidence: 0.834787

00:04:08.300 --> 00:04:10.390 Yeah, why didn't they see me interviewing

NOTE Confidence: 0.834787

00:04:10.390 --> 00:04:12.478 them and then I can tell them

NOTE Confidence: 0.834787

00:04:12.480 --> 00:04:13.676 what they're really like.

NOTE Confidence: 0.834787

00:04:13.676 --> 00:04:15.470 This person was a decent person.

NOTE Confidence: 0.834787

00:04:15.470 --> 00:04:17.870 This one is not one of the videos,

NOTE Confidence: 0.834787

00:04:17.870 --> 00:04:20.552 so there are 480 videos on the NBC website,

NOTE Confidence: 0.834787

00:04:20.560 --> 00:04:22.950 so this is 10 to what I did.

NOTE Confidence: 0.834787

00:04:22.950 --> 00:04:24.294 Sure right, but you know,

NOTE Confidence: 0.834787

00:04:24.294 --> 00:04:26.030 it's still a lot for me and

NOTE Confidence: 0.834787

00:04:26.093 --> 00:04:28.028 there's one video in particular.

NOTE Confidence: 0.834787

00:04:28.030 --> 00:04:29.398 It was from 1981.

NOTE Confidence: 0.834787

00:04:29.398 --> 00:04:31.899 Where you had this excellent white linen

NOTE Confidence: 0.834787

00:04:31.899 --> 00:04:34.545 sports coat and purple tie purple shirt,

NOTE Confidence: 0.834787

00:04:34.550 --> 00:04:36.430 your hairs gotta fro delivery.

NOTE Confidence: 0.834787

00:04:36.430 --> 00:04:39.320 Bring all that up.
NOTE Confidence: 0.834787

00:04:39.320 --> 00:04:41.384 Great, so great and you're interviewing
NOTE Confidence: 0.834787

00:04:41.384 --> 00:04:43.209 BF Skinner about some experiments
NOTE Confidence: 0.834787

00:04:43.209 --> 00:04:45.139 that he's doing with pigeons.
NOTE Confidence: 0.834787

00:04:45.140 --> 00:04:46.960 You know unpacking and, well,
NOTE Confidence: 0.834787

00:04:46.960 --> 00:04:49.508 you know the different files and stuff.
NOTE Confidence: 0.81369656

00:04:49.510 --> 00:04:53.343 I had a great honor and for a long time on
NOTE Confidence: 0.81369656

00:04:53.343 --> 00:04:57.160 the Today Show in the 80s where I they won't,
NOTE Confidence: 0.81369656

00:04:57.160 --> 00:04:59.687 they took a science segment which is
NOTE Confidence: 0.81369656

00:04:59.687 --> 00:05:02.883 very rare an I was allowed to pick and
NOTE Confidence: 0.81369656

00:05:02.883 --> 00:05:05.824 anything I wanted to and I found out
NOTE Confidence: 0.81369656

00:05:05.824 --> 00:05:08.443 that Skinner was still around, which was
NOTE Confidence: 0.81369656

00:05:08.443 --> 00:05:10.906 surprising because it was so famous.
NOTE Confidence: 0.81369656

00:05:10.906 --> 00:05:13.510 And he was a great interview.
NOTE Confidence: 0.81369656

00:05:13.510 --> 00:05:15.526 It was a very wry sense of
NOTE Confidence: 0.81369656

00:05:15.526 --> 00:05:17.620 humor and the funny character.

NOTE Confidence: 0.81369656

00:05:17.620 --> 00:05:20.014 And he had this idea of everything.

NOTE Confidence: 0.81369656

00:05:20.014 --> 00:05:21.699 Everything as I recently started

NOTE Confidence: 0.81369656

00:05:21.699 --> 00:05:23.110 wearing hearing aids myself.

NOTE Confidence: 0.81369656

00:05:23.110 --> 00:05:24.514 But in those days,

NOTE Confidence: 0.81369656

00:05:24.514 --> 00:05:26.890 hearing aids were quite visible and he,

NOTE Confidence: 0.81369656

00:05:26.890 --> 00:05:28.936 being the behaviorist that he was,

NOTE Confidence: 0.81369656

00:05:28.940 --> 00:05:31.348 he told me that the effect of

NOTE Confidence: 0.81369656

00:05:31.348 --> 00:05:33.788 hearing aid seems to be it made

NOTE Confidence: 0.81369656

00:05:33.788 --> 00:05:35.453 people scream at him 'cause

NOTE Confidence: 0.7881584

00:05:35.460 --> 00:05:37.180 they would see it here.

NOTE Confidence: 0.7514609

00:05:39.320 --> 00:05:39.968 Operant conditioning.

NOTE Confidence: 0.7514609

00:05:39.968 --> 00:05:41.912 He didn't think the hearing aids

NOTE Confidence: 0.7514609

00:05:41.912 --> 00:05:43.169 were enhancing his hearing,

NOTE Confidence: 0.7514609

00:05:43.170 --> 00:05:45.420 but he may make people screw you.

NOTE Confidence: 0.7514609

00:05:45.420 --> 00:05:47.025 Wow that would have been

NOTE Confidence: 0.7514609

00:05:47.025 --> 00:05:48.309 such a wonderful experience.

NOTE Confidence: 0.7514609

00:05:48.310 --> 00:05:49.910 I've obviously never met Skinner,

NOTE Confidence: 0.7514609

00:05:49.910 --> 00:05:52.220 but I've read a lot of his

NOTE Confidence: 0.7514609

00:05:52.220 --> 00:05:53.769 work and seeing how it

NOTE Confidence: 0.7514609

00:05:53.770 --> 00:05:55.610 influences and he had some

NOTE Confidence: 0.7514609

00:05:55.610 --> 00:05:57.852 students that I followed up with

NOTE Confidence: 0.7514609

00:05:57.852 --> 00:05:59.838 who made enormous fan of all.

NOTE Confidence: 0.7514609

00:05:59.840 --> 00:06:01.590 Of other people, for instance,

NOTE Confidence: 0.7514609

00:06:01.590 --> 00:06:03.340 people were trying to teach

NOTE Confidence: 0.7514609

00:06:03.340 --> 00:06:04.740 a language to chimpanzees,

NOTE Confidence: 0.7514609

00:06:04.740 --> 00:06:06.660 and they proved that they could

NOTE Confidence: 0.7514609

00:06:06.660 --> 00:06:08.775 get pigeons to do exactly what

NOTE Confidence: 0.7514609

00:06:08.775 --> 00:06:10.690 these people are getting the

NOTE Confidence: 0.8366641

00:06:10.690 --> 00:06:11.740 chimpanzees to do.

NOTE Confidence: 0.8366641

00:06:11.740 --> 00:06:12.790 Pressing the buttons,

NOTE Confidence: 0.8366641

00:06:12.790 --> 00:06:13.490 community communicating

NOTE Confidence: 0.8366641

00:06:13.490 --> 00:06:14.890 right exactly spelling out

NOTE Confidence: 0.8366641

00:06:14.890 --> 00:06:16.990 words which really weren't really doing

NOTE Confidence: 0.8366641

00:06:16.990 --> 00:06:19.910 well. There was such as a light going

NOTE Confidence: 0.8366641

00:06:19.910 --> 00:06:22.828 through a lot of your work and I wanted

NOTE Confidence: 0.8366641

00:06:22.828 --> 00:06:24.886 to kind of start farther back because

NOTE Confidence: 0.8366641

00:06:24.886 --> 00:06:27.137 I find it absolutely fascinating.

NOTE Confidence: 0.8366641

00:06:27.140 --> 00:06:28.920 So you did your undergraduate

NOTE Confidence: 0.8366641

00:06:28.920 --> 00:06:29.988 work and Berkeley.

NOTE Confidence: 0.8366641

00:06:29.990 --> 00:06:35.966 Seemingly at a time when there was like huge.

NOTE Confidence: 0.8366641

00:06:35.970 --> 00:06:36.963 Protest political unrest.

NOTE Confidence: 0.8366641

00:06:36.963 --> 00:06:39.732 You know the 60 seven was it when

NOTE Confidence: 0.8366641

00:06:39.732 --> 00:06:41.548 you graduated, graduated in 67.

NOTE Confidence: 0.8354799

00:06:41.550 --> 00:06:44.349 I started in the fall of 60 three and

NOTE Confidence: 0.8354799

00:06:44.349 --> 00:06:47.439 the free Speech movement was in 64 and

NOTE Confidence: 0.8354799

00:06:47.439 --> 00:06:50.680 Berkeley was way ahead of the rest of the

NOTE Confidence: 0.8354799

00:06:50.680 --> 00:06:52.694 country in terms of being disruptive.

NOTE Confidence: 0.8354799

00:06:52.694 --> 00:06:55.860 And I had my eye on my own back.

NOTE Confidence: 0.8354799

00:06:55.860 --> 00:06:58.348 Story to that is that I had dropped

NOTE Confidence: 0.8354799

00:06:58.348 --> 00:07:00.819 out of high school an I worked

NOTE Confidence: 0.8354799

00:07:00.819 --> 00:07:03.190 as a merchant Seaman for awhile.

NOTE Confidence: 0.8354799

00:07:03.190 --> 00:07:05.390 I'm traveling around the Pacific

NOTE Confidence: 0.8354799

00:07:05.390 --> 00:07:08.370 so I got that. I got to Berkeley.

NOTE Confidence: 0.8354799

00:07:08.370 --> 00:07:10.574 I got the equivalent of GD and

NOTE Confidence: 0.8354799

00:07:10.574 --> 00:07:11.770 I went to Berkeley

NOTE Confidence: 0.81916785

00:07:11.770 --> 00:07:13.926 and I'm sorry can we step back?

NOTE Confidence: 0.81916785

00:07:13.930 --> 00:07:15.470 Can you help me understand

NOTE Confidence: 0.81916785

00:07:15.470 --> 00:07:17.010 what a merchant Seaman is?

NOTE Confidence: 0.81916785

00:07:17.010 --> 00:07:19.089 Oh I have this vision of EB

NOTE Confidence: 0.81916785

00:07:19.089 --> 00:07:20.674 White working on a cruise

NOTE Confidence: 0.81916785

00:07:20.674 --> 00:07:22.546 vessel going up to Alaska or

NOTE Confidence: 0.81916785

00:07:22.550 --> 00:07:24.090 something was not that different.

NOTE Confidence: 0.81916785

00:07:24.090 --> 00:07:26.514 I was in a cooks and stewards union

NOTE Confidence: 0.81916785

00:07:26.514 --> 00:07:28.674 so that I wash dishes at sometimes

NOTE Confidence: 0.81916785

00:07:28.674 --> 00:07:31.156 if I got a good job you would

NOTE Confidence: 0.81916785

00:07:31.156 --> 00:07:33.326 bid on jobs at the Union Hall.

NOTE Confidence: 0.81916785

00:07:33.330 --> 00:07:36.362 If I got a good job I would

NOTE Confidence: 0.81916785

00:07:36.362 --> 00:07:39.508 be able to wait on tables or.

NOTE Confidence: 0.81916785

00:07:39.510 --> 00:07:42.030 Sometimes I had to clean up rooms,

NOTE Confidence: 0.81916785

00:07:42.030 --> 00:07:44.172 it was it was interesting mixture

NOTE Confidence: 0.81916785

00:07:44.172 --> 00:07:46.382 of things and sometimes it worked

NOTE Confidence: 0.81916785

00:07:46.382 --> 00:07:48.167 on freighters which were much

NOTE Confidence: 0.81916785

00:07:48.167 --> 00:07:50.308 more less contact with the public.

NOTE Confidence: 0.81916785

00:07:50.310 --> 00:07:52.599 But this was long enough ago that

NOTE Confidence: 0.81916785

00:07:52.599 --> 00:07:54.629 there were American passenger ships,

NOTE Confidence: 0.81916785

00:07:54.630 --> 00:07:56.820 so people were traveling to Hawaii

NOTE Confidence: 0.81916785

00:07:56.820 --> 00:07:59.366 and Australia and Tahiti on ships was

NOTE Confidence: 0.81916785

00:07:59.366 --> 00:08:03.900 quite an experience, so I was a bit.
NOTE Confidence: 0.81916785

00:08:03.900 --> 00:08:07.347 In front of my classmates when I got there.
NOTE Confidence: 0.81916785

00:08:07.350 --> 00:08:09.948 In terms of life experience and
NOTE Confidence: 0.81916785

00:08:09.948 --> 00:08:12.790 so that made me right away.
NOTE Confidence: 0.81916785

00:08:12.790 --> 00:08:14.776 Wine, wonder why these people are
NOTE Confidence: 0.81916785

00:08:14.776 --> 00:08:16.100 wasting their time protesting?
NOTE Confidence: 0.81916785

00:08:16.100 --> 00:08:18.417 Not that I disagree with the politics,
NOTE Confidence: 0.81916785

00:08:18.420 --> 00:08:20.485 but in retrospect a lot of them
NOTE Confidence: 0.81916785

00:08:20.485 --> 00:08:22.924 are very brave people who had gone
NOTE Confidence: 0.81916785

00:08:22.924 --> 00:08:24.784 to the Mississippi freedom Summers
NOTE Confidence: 0.81916785

00:08:24.784 --> 00:08:27.017 and put their lives on the line.
NOTE Confidence: 0.81916785

00:08:27.020 --> 00:08:29.476 And but when they came back they wanted
NOTE Confidence: 0.81916785

00:08:29.476 --> 00:08:31.989 to pick a fight with the University,
NOTE Confidence: 0.81916785

00:08:31.990 --> 00:08:32.944 and in retrospect,
NOTE Confidence: 0.81916785

00:08:32.944 --> 00:08:36.272 a lot of it was kind of silly at the
NOTE Confidence: 0.81916785

00:08:36.272 --> 00:08:38.659 time was whether you put a table

NOTE Confidence: 0.81916785

00:08:38.736 --> 00:08:40.962 here or 30 feet away from there

NOTE Confidence: 0.81916785

00:08:40.962 --> 00:08:42.922 an to give out pamphlets so.

NOTE Confidence: 0.81916785

00:08:42.922 --> 00:08:45.709 I had trouble at first getting used to it,

NOTE Confidence: 0.81916785

00:08:45.710 --> 00:08:48.550 and I think that the politics of Berkeley.

NOTE Confidence: 0.81916785

00:08:48.550 --> 00:08:51.406 Played a lot in my ending up

NOTE Confidence: 0.81916785

00:08:51.406 --> 00:08:53.420 being a journalist because.

NOTE Confidence: 0.81916785

00:08:53.420 --> 00:08:56.438 It was always very disruptive Ann.

NOTE Confidence: 0.81916785

00:08:56.440 --> 00:08:59.790 It was hard to concentrate, I didn't.

NOTE Confidence: 0.81916785

00:08:59.790 --> 00:09:03.865 I had was on track to be a scientist,

NOTE Confidence: 0.81916785

00:09:03.870 --> 00:09:06.650 I an I went away for a year and worked

NOTE Confidence: 0.81916785

00:09:06.724 --> 00:09:09.764 at the University of Sussex and then came

NOTE Confidence: 0.81916785

00:09:09.764 --> 00:09:12.870 back which allowed me to stay in Berkeley.

NOTE Confidence: 0.81916785

00:09:12.870 --> 00:09:14.946 Usually you have to do your

NOTE Confidence: 0.81916785

00:09:14.946 --> 00:09:16.330 graduate work someplace else,

NOTE Confidence: 0.81916785

00:09:16.330 --> 00:09:18.454 but keeping on the track to

NOTE Confidence: 0.81916785

00:09:18.454 --> 00:09:20.479 do what I had to do,
NOTE Confidence: 0.81916785

00:09:20.480 --> 00:09:22.440 I went to work in the laboratory
NOTE Confidence: 0.81916785

00:09:22.440 --> 00:09:24.840 of a Nobel Prize winner and this
NOTE Confidence: 0.81916785

00:09:24.840 --> 00:09:27.072 he was Melvin Calvin who discovered
NOTE Confidence: 0.81916785

00:09:27.139 --> 00:09:28.627 the photosynthesis cycle which
NOTE Confidence: 0.81916785

00:09:28.627 --> 00:09:31.257 is now known as the Calvin Cycle.
NOTE Confidence: 0.81916785

00:09:31.257 --> 00:09:34.433 But of course it wasn't in those days.
NOTE Confidence: 0.81916785

00:09:34.440 --> 00:09:34.893 Anne.
NOTE Confidence: 0.81916785

00:09:34.893 --> 00:09:38.064 He had a huge labion 20 combination
NOTE Confidence: 0.81916785

00:09:38.064 --> 00:09:40.939 of graduate students and postdocs.
NOTE Confidence: 0.81916785

00:09:40.940 --> 00:09:41.357 Ann,
NOTE Confidence: 0.81916785

00:09:41.357 --> 00:09:44.276 we decided in because that was the
NOTE Confidence: 0.81916785

00:09:44.276 --> 00:09:47.829 way we did things in those days too.
NOTE Confidence: 0.81916785

00:09:47.830 --> 00:09:50.262 Demand that he get off the Board of
NOTE Confidence: 0.81916785

00:09:50.262 --> 00:09:52.077 Directors of Dow Chemical because
NOTE Confidence: 0.81916785

00:09:52.077 --> 00:09:53.217 it made napalm.

NOTE Confidence: 0.81916785

00:09:53.220 --> 00:09:55.660 An he said to us,

NOTE Confidence: 0.81916785

00:09:55.660 --> 00:09:59.516 do go to hell just you're fired, he fired.

NOTE Confidence: 0.81916785

00:09:59.516 --> 00:10:01.112 All of us just called his name

NOTE Confidence: 0.81916785

00:10:01.112 --> 00:10:03.039 is student newspapers called the

NOTE Confidence: 0.81916785

00:10:03.039 --> 00:10:04.269 Saturday Night Massacre.

NOTE Confidence: 0.81916785

00:10:04.270 --> 00:10:06.200 So this is when you are Berkeley

NOTE Confidence: 0.81916785

00:10:06.200 --> 00:10:07.870 hours Berkeley. So I was right.

NOTE Confidence: 0.81916785

00:10:07.870 --> 00:10:09.526 This is what I was pushed.

NOTE Confidence: 0.81916785

00:10:09.530 --> 00:10:10.910 Fast forwarding to undergraduate student.

NOTE Confidence: 0.81916785

00:10:10.910 --> 00:10:13.796 K and I had finished by.

NOTE Confidence: 0.81916785

00:10:13.800 --> 00:10:15.843 Or else for my PhD and I was about

NOTE Confidence: 0.81916785

00:10:15.843 --> 00:10:18.133 to thinking about it thesis and at

NOTE Confidence: 0.81916785

00:10:18.133 --> 00:10:20.405 that moment I happened just fortuitously

NOTE Confidence: 0.81916785

00:10:20.405 --> 00:10:23.033 to meet somebody from Science magazine,

NOTE Confidence: 0.81916785

00:10:23.040 --> 00:10:25.350 and that's how I got into journalism.

NOTE Confidence: 0.8014199

00:10:25.350 --> 00:10:27.000 But if it hadn't met,
NOTE Confidence: 0.8014199

00:10:27.000 --> 00:10:28.650 Melvin Calvin hadn't kicked me
NOTE Confidence: 0.8014199

00:10:28.650 --> 00:10:29.978 out of his laboratory.
NOTE Confidence: 0.8014199

00:10:29.978 --> 00:10:32.609 I might have been assigned to this day.
NOTE Confidence: 0.8014199

00:10:32.610 --> 00:10:34.260 Oh wow, so that's that's
NOTE Confidence: 0.8014199

00:10:34.260 --> 00:10:34.920 absolutely fascinating.
NOTE Confidence: 0.8014199

00:10:34.920 --> 00:10:36.900 So so during your undergraduate years,
NOTE Confidence: 0.8014199

00:10:36.900 --> 00:10:39.540 you were you were writing, and I didn't
NOTE Confidence: 0.8014199

00:10:39.540 --> 00:10:41.520 write so much under my eyes.
NOTE Confidence: 0.8014199

00:10:41.520 --> 00:10:42.980 In my undergraduate years,
NOTE Confidence: 0.8014199

00:10:42.980 --> 00:10:45.575 I started that more as when I
NOTE Confidence: 0.8014199

00:10:45.575 --> 00:10:47.549 came back as a graduate student.
NOTE Confidence: 0.8014199

00:10:47.550 --> 00:10:49.926 And wrote a column for the
NOTE Confidence: 0.8014199

00:10:49.926 --> 00:10:51.114 Daily Californian's newspaper,
NOTE Confidence: 0.8014199

00:10:51.120 --> 00:10:53.110 but then they would buy.
NOTE Confidence: 0.8014199

00:10:53.110 --> 00:10:56.986 This is now in 1970 and.

NOTE Confidence: 0.8014199

00:10:56.990 --> 00:10:58.574 Long before can skate and

NOTE Confidence: 0.8014199

00:10:58.574 --> 00:11:00.154 a lot of other things,

NOTE Confidence: 0.8014199

00:11:00.160 --> 00:11:01.428 there was actually shootings

NOTE Confidence: 0.8014199

00:11:01.428 --> 00:11:02.696 in tear gas constantly.

NOTE Confidence: 0.8014199

00:11:02.700 --> 00:11:03.332 At Berkeley.

NOTE Confidence: 0.8014199

00:11:03.332 --> 00:11:04.596 It was a very,

NOTE Confidence: 0.8452077

00:11:04.600 --> 00:11:05.864 very disruptive from from

NOTE Confidence: 0.8452077

00:11:05.864 --> 00:11:07.444 2 control of the protests.

NOTE Confidence: 0.8452077

00:11:07.450 --> 00:11:09.038 Or, yeah, yeah, absolutely yeah.

NOTE Confidence: 0.8452077

00:11:09.040 --> 00:11:10.852 This is a part of history

NOTE Confidence: 0.8452077

00:11:10.852 --> 00:11:12.840 that I don't know very well,

NOTE Confidence: 0.8452077

00:11:12.840 --> 00:11:14.736 so this is absolutely fascinating for

NOTE Confidence: 0.8452077

00:11:14.740 --> 00:11:17.910 me. Yeah, I wanted we could go off on that,

NOTE Confidence: 0.8452077

00:11:17.910 --> 00:11:19.500 but it's yeah, it was.

NOTE Confidence: 0.8452077

00:11:19.500 --> 00:11:21.607 There were so good science and good

NOTE Confidence: 0.8452077

00:11:21.607 --> 00:11:23.300 teaching and smart people there.
NOTE Confidence: 0.8452077

00:11:23.300 --> 00:11:25.065 Obviously it's a world class
NOTE Confidence: 0.8452077

00:11:25.065 --> 00:11:27.220 University and but I think that.
NOTE Confidence: 0.8452077

00:11:27.220 --> 00:11:29.275 In retrospect, the politics were
NOTE Confidence: 0.8452077

00:11:29.275 --> 00:11:32.127 so dominant that I got less out
NOTE Confidence: 0.8452077

00:11:32.127 --> 00:11:34.281 of the experience of being there
NOTE Confidence: 0.8452077

00:11:34.281 --> 00:11:36.719 that I could have if it were,
NOTE Confidence: 0.8452077

00:11:36.720 --> 00:11:37.860 say, yeah, or
NOTE Confidence: 0.84552735

00:11:37.860 --> 00:11:40.158 someplace else. What was it like
NOTE Confidence: 0.84552735

00:11:40.158 --> 00:11:42.040 working at a scientific lab?
NOTE Confidence: 0.84552735

00:11:42.040 --> 00:11:43.940 You know, a science lab.
NOTE Confidence: 0.84552735

00:11:43.940 --> 00:11:46.481 During a moment when there was a
NOTE Confidence: 0.84552735

00:11:46.481 --> 00:11:48.499 heavy anti science sentiment in
NOTE Confidence: 0.84552735

00:11:48.500 --> 00:11:50.929 your generation. I don't remember that my
NOTE Confidence: 0.84552735

00:11:50.929 --> 00:11:53.060 generation had anti science sentiment.
NOTE Confidence: 0.84552735

00:11:53.060 --> 00:11:54.804 The environmental movement was

NOTE Confidence: 0.84552735

00:11:54.804 --> 00:11:57.960 just beginning and I I had never.

NOTE Confidence: 0.84552735

00:11:57.960 --> 00:12:00.473 Seen as anti science and you talk

NOTE Confidence: 0.84552735

00:12:00.473 --> 00:12:03.738 about anti science now in terms of the

NOTE Confidence: 0.84552735

00:12:03.738 --> 00:12:05.848 regulations that the Trump administration

NOTE Confidence: 0.84552735

00:12:05.919 --> 00:12:08.804 is trying to illuminate. But I don't.

NOTE Confidence: 0.84552735

00:12:08.804 --> 00:12:12.244 I don't ever recall feeling and I any

NOTE Confidence: 0.84552735

00:12:12.244 --> 00:12:15.208 anti science sentiment and I don't.

NOTE Confidence: 0.84552735

00:12:15.210 --> 00:12:17.382 And Pew surveys now and things

NOTE Confidence: 0.84552735

00:12:17.382 --> 00:12:19.700 got along for a long time.

NOTE Confidence: 0.84552735

00:12:19.700 --> 00:12:22.318 In science, it held it enormous respect.

NOTE Confidence: 0.84552735

00:12:22.320 --> 00:12:23.060 Still an

NOTE Confidence: 0.84247684

00:12:23.060 --> 00:12:25.314 was then I guess I associate the

NOTE Confidence: 0.84247684

00:12:25.314 --> 00:12:27.324 protests against the war and

NOTE Confidence: 0.84247684

00:12:27.324 --> 00:12:29.050 against experimentation. Things like

NOTE Confidence: 0.84247684

00:12:29.050 --> 00:12:30.151 that. Yeah, well,

NOTE Confidence: 0.84247684

00:12:30.151 --> 00:12:33.160 the report is against the war for sure,
NOTE Confidence: 0.84247684

00:12:33.160 --> 00:12:35.778 and I felt very strongly and myself,
NOTE Confidence: 0.84247684

00:12:35.780 --> 00:12:38.398 and that it was an awful situation.
NOTE Confidence: 0.84247684

00:12:38.400 --> 00:12:40.871 But it wasn't about science except in
NOTE Confidence: 0.84247684

00:12:40.871 --> 00:12:43.258 very specific ways like making weapons.
NOTE Confidence: 0.84247684

00:12:43.260 --> 00:12:44.820 But the scientific community
NOTE Confidence: 0.84247684

00:12:44.820 --> 00:12:45.990 was growing enormously.
NOTE Confidence: 0.84247684

00:12:45.990 --> 00:12:49.086 In those days and one of the first stories
NOTE Confidence: 0.84247684

00:12:49.086 --> 00:12:52.254 I covered when I got to Science magazine
NOTE Confidence: 0.84247684

00:12:52.254 --> 00:12:56.100 was the war on cancer that Richard Nixon was.
NOTE Confidence: 0.84247684

00:12:56.100 --> 00:12:57.990 Forced to sign. He wasn't.
NOTE Confidence: 0.84247684

00:12:57.990 --> 00:13:00.636 Nobody put a gun to his head,
NOTE Confidence: 0.84247684

00:13:00.640 --> 00:13:02.728 but he was politically
NOTE Confidence: 0.84247684

00:13:02.728 --> 00:13:04.294 very wealthy lobbyists.
NOTE Confidence: 0.84247684

00:13:04.300 --> 00:13:07.316 Who spend all our time on health matters,
NOTE Confidence: 0.84247684

00:13:07.320 --> 00:13:08.472 name Mary Lasker.

NOTE Confidence: 0.84247684

00:13:08.472 --> 00:13:10.776 Put together this coalition of Democrats

NOTE Confidence: 0.84247684

00:13:10.776 --> 00:13:13.298 and Republicans and and they didn't want

NOTE Confidence: 0.84247684

00:13:13.298 --> 00:13:15.990 to hear about basic science they wanted.

NOTE Confidence: 0.84247684

00:13:15.990 --> 00:13:18.960 Why isn't there a cure for cancer and used

NOTE Confidence: 0.84247684

00:13:18.960 --> 00:13:22.118 and became known as the War on cancer even

NOTE Confidence: 0.84247684

00:13:22.118 --> 00:13:25.037 though it wasn't officially called that?

NOTE Confidence: 0.84247684

00:13:25.040 --> 00:13:27.532 But of course whenever you declare war

NOTE Confidence: 0.84247684

00:13:27.532 --> 00:13:29.939 on something that people start asking.

NOTE Confidence: 0.84247684

00:13:29.940 --> 00:13:32.194 Or are we winning the war?

NOTE Confidence: 0.84247684

00:13:32.194 --> 00:13:34.456 And that question goes on today?

NOTE Confidence: 0.84247684

00:13:34.460 --> 00:13:35.660 Because the.

NOTE Confidence: 0.84247684

00:13:35.660 --> 00:13:36.860 Numbers of.

NOTE Confidence: 0.84247684

00:13:36.860 --> 00:13:39.860 Cancer deaths in the United

NOTE Confidence: 0.84247684

00:13:39.860 --> 00:13:42.090 States especially are.

NOTE Confidence: 0.84247684

00:13:42.090 --> 00:13:44.270 Despite all the miraculous sounding

NOTE Confidence: 0.84247684

00:13:44.270 --> 00:13:46.450 things we hear about immunotherapy's

NOTE Confidence: 0.84247684

00:13:46.519 --> 00:13:48.399 another and targeted therapies,

NOTE Confidence: 0.84247684

00:13:48.400 --> 00:13:50.580 other treatments is vastly driven

NOTE Confidence: 0.84247684

00:13:50.580 --> 00:13:53.742 by the amount of people smoke or

NOTE Confidence: 0.84247684

00:13:53.742 --> 00:13:56.448 how many people are obese and

NOTE Confidence: 0.84247684

00:13:56.448 --> 00:13:58.330 things environmental factors that

NOTE Confidence: 0.84247684

00:13:58.330 --> 00:14:01.024 have nothing to do with treatment.

NOTE Confidence: 0.91547066

00:14:02.540 --> 00:14:06.404 So. The decision for you did go

NOTE Confidence: 0.91547066

00:14:06.404 --> 00:14:08.495 to Science magazine and become a

NOTE Confidence: 0.91547066

00:14:08.495 --> 00:14:10.880 full time writer. Yeah, I was. I

NOTE Confidence: 0.8495677

00:14:10.880 --> 00:14:13.608 was on the staff was very early announced.

NOTE Confidence: 0.8495677

00:14:13.610 --> 00:14:16.376 Now it's a giant and very.

NOTE Confidence: 0.8495677

00:14:16.380 --> 00:14:17.700 Very very good section

NOTE Confidence: 0.8495677

00:14:17.700 --> 00:14:19.020 of of Science magazine.

NOTE Confidence: 0.8495677

00:14:19.020 --> 00:14:21.990 But in those days just a few of us,

NOTE Confidence: 0.8495677

00:14:21.990 --> 00:14:23.970 I think I was a third

NOTE Confidence: 0.8334252

00:14:23.970 --> 00:14:26.399 higher reported on some of the biggest

NOTE Confidence: 0.8334252

00:14:26.399 --> 00:14:28.424 science stories that have happened in

NOTE Confidence: 0.8334252

00:14:28.424 --> 00:14:30.566 the last for more than my lifetime.

NOTE Confidence: 0.8334252

00:14:30.570 --> 00:14:32.550 At least the last 30 four

NOTE Confidence: 0.8334252

00:14:32.550 --> 00:14:33.814 years already I was.

NOTE Confidence: 0.8334252

00:14:33.814 --> 00:14:36.133 I was at NBC for 38 years

NOTE Confidence: 0.8334252

00:14:36.133 --> 00:14:38.485 an the I came there in nine.

NOTE Confidence: 0.8334252

00:14:38.490 --> 00:14:42.117 I went to local news for six months in.

NOTE Confidence: 0.8334252

00:14:42.120 --> 00:14:45.144 1976, and then they sent me

NOTE Confidence: 0.8334252

00:14:45.144 --> 00:14:47.810 to Washington for a year.

NOTE Confidence: 0.8334252

00:14:47.810 --> 00:14:49.970 But I was always tagged to be the

NOTE Confidence: 0.8334252

00:14:49.970 --> 00:14:51.959 science and medicine correspondent.

NOTE Confidence: 0.8191698

00:14:51.960 --> 00:14:53.685 Was that on account of

NOTE Confidence: 0.8191698

00:14:53.685 --> 00:14:55.080 your science, training or

NOTE Confidence: 0.8191698

00:14:55.080 --> 00:14:57.150 person? Because of my size training,

NOTE Confidence: 0.8191698

00:14:57.150 --> 00:14:59.348 they in the mid 70s there were
NOTE Confidence: 0.8191698

00:14:59.348 --> 00:15:00.960 still only three networks,
NOTE Confidence: 0.8191698

00:15:00.960 --> 00:15:03.375 which of course makes an enormous difference.
NOTE Confidence: 0.8191698

00:15:03.380 --> 00:15:05.795 If you want to talk about televisions,
NOTE Confidence: 0.8191698

00:15:05.800 --> 00:15:08.215 nothing like the media environment of today.
NOTE Confidence: 0.8191698

00:15:08.220 --> 00:15:10.055 An enormous percentage of American
NOTE Confidence: 0.8191698

00:15:10.055 --> 00:15:12.583 public sat down at 6:30 or 7:00
NOTE Confidence: 0.8191698

00:15:12.583 --> 00:15:14.133 o'clock and watch the Evening
NOTE Confidence: 0.8191698

00:15:14.133 --> 00:15:16.530 News on one of the three networks.
NOTE Confidence: 0.8191698

00:15:16.530 --> 00:15:19.635 And that's why my voice was familiar to you.
NOTE Confidence: 0.8191698

00:15:19.640 --> 00:15:20.320 Because you.
NOTE Confidence: 0.8191698

00:15:20.320 --> 00:15:23.040 You heard it when you were growing up,
NOTE Confidence: 0.8191698

00:15:23.040 --> 00:15:24.755 along with almost everybody was
NOTE Confidence: 0.8191698

00:15:24.755 --> 00:15:26.801 on television and I remember a
NOTE Confidence: 0.8191698

00:15:26.801 --> 00:15:28.445 colleague when I got the NBC
NOTE Confidence: 0.8191698

00:15:28.445 --> 00:15:29.900 very beginning in my career.

NOTE Confidence: 0.8191698

00:15:29.900 --> 00:15:31.636 He said you have to realize there

NOTE Confidence: 0.8191698

00:15:31.636 --> 00:15:34.094 were fewer of us and he meant network

NOTE Confidence: 0.8191698

00:15:34.094 --> 00:15:35.422 television correspondents for the

NOTE Confidence: 0.8191698

00:15:35.422 --> 00:15:37.079 major news organizations here.

NOTE Confidence: 0.8191698

00:15:37.080 --> 00:15:38.910 There's fewer of us than there

NOTE Confidence: 0.8191698

00:15:38.910 --> 00:15:40.819 are members of the US Senate.

NOTE Confidence: 0.7735193

00:15:41.960 --> 00:15:44.290 I never thought of that. Yeah, that's

NOTE Confidence: 0.7735193

00:15:44.290 --> 00:15:46.312 fair, yeah, and he was so

NOTE Confidence: 0.7735193

00:15:46.312 --> 00:15:48.289 we had a position and uh,

NOTE Confidence: 0.7735193

00:15:48.290 --> 00:15:50.060 of authority and responsibility and I

NOTE Confidence: 0.7735193

00:15:50.060 --> 00:15:52.279 hope we carried out the responsibility,

NOTE Confidence: 0.7735193

00:15:52.280 --> 00:15:54.614 but it was nothing. And, you know,

NOTE Confidence: 0.7735193

00:15:54.614 --> 00:15:56.274 get recognized on the street.

NOTE Confidence: 0.7735193

00:15:56.280 --> 00:15:58.604 Then you know people like you reckon.

NOTE Confidence: 0.7735193

00:15:58.610 --> 00:16:00.270 Remember, my voice is for

NOTE Confidence: 0.7735193

00:16:00.270 --> 00:16:01.266 very heartening experience,
NOTE Confidence: 0.7735193

00:16:01.270 --> 00:16:03.552 so I had a touch of celebrity
NOTE Confidence: 0.7735193

00:16:03.552 --> 00:16:05.938 without any of the burdens of it.
NOTE Confidence: 0.7735193

00:16:05.940 --> 00:16:06.939 I was never.
NOTE Confidence: 0.7735193

00:16:06.940 --> 00:16:09.270 That's pretty ideal I guess. Yeah, right,
NOTE Confidence: 0.7735193

00:16:09.270 --> 00:16:10.598 because it was. It's
NOTE Confidence: 0.7735193

00:16:10.598 --> 00:16:11.600 interesting. Because the.
NOTE Confidence: 0.87184805

00:16:14.740 --> 00:16:16.588 I almost never had anybody complained
NOTE Confidence: 0.87184805

00:16:16.588 --> 00:16:18.707 to me about stories when they recognize
NOTE Confidence: 0.87184805

00:16:18.707 --> 00:16:20.910 me and I would get recognized a lot.
NOTE Confidence: 0.87184805

00:16:20.910 --> 00:16:22.395 And usually people wouldn't bother
NOTE Confidence: 0.87184805

00:16:22.395 --> 00:16:24.150 me with them when they did,
NOTE Confidence: 0.87184805

00:16:24.150 --> 00:16:25.566 it was just complementary.
NOTE Confidence: 0.87184805

00:16:25.566 --> 00:16:27.690 They say they enjoyed this story
NOTE Confidence: 0.87184805

00:16:27.750 --> 00:16:29.550 about this or that I remember.
NOTE Confidence: 0.87184805

00:16:29.550 --> 00:16:30.738 Speaking to Michael Kinsley,

NOTE Confidence: 0.87184805

00:16:30.738 --> 00:16:32.520 who was an editor at the

NOTE Confidence: 0.87184805

00:16:32.578 --> 00:16:33.978 time at the New Republic,

NOTE Confidence: 0.87184805

00:16:33.980 --> 00:16:35.450 where I occasionally wrote articles,

NOTE Confidence: 0.87184805

00:16:35.450 --> 00:16:37.810 and he was on Crossfire with Pat Buchanan,

NOTE Confidence: 0.87184805

00:16:37.810 --> 00:16:40.170 and he said, everybody came up to him,

NOTE Confidence: 0.87184805

00:16:40.170 --> 00:16:42.235 and they wanted to finish the argument.

NOTE Confidence: 0.87184805

00:16:42.240 --> 00:16:43.415 So if you're on,

NOTE Confidence: 0.87184805

00:16:43.415 --> 00:16:45.452 and that would be just the beginning

NOTE Confidence: 0.87184805

00:16:45.452 --> 00:16:47.180 of that kind of television where

NOTE Confidence: 0.87184805

00:16:47.236 --> 00:16:48.726 people scream at each other,

NOTE Confidence: 0.87184805

00:16:48.730 --> 00:16:50.500 we didn't do that, we told,

NOTE Confidence: 0.87184805

00:16:50.500 --> 00:16:51.382 told a story,

NOTE Confidence: 0.87184805

00:16:51.382 --> 00:16:53.146 and a certain amount of time.

NOTE Confidence: 0.87184805

00:16:53.150 --> 00:16:53.740 So it

NOTE Confidence: 0.8307622

00:16:53.740 --> 00:16:55.510 occur to me that you know,

NOTE Confidence: 0.8307622

00:16:55.510 --> 00:16:57.498 and I'm sure this is delivered on
NOTE Confidence: 0.8307622

00:16:57.498 --> 00:17:00.096 account of your the medium, that you're.
NOTE Confidence: 0.8307622

00:17:00.096 --> 00:17:03.234 Reporting on, but your story is.
NOTE Confidence: 0.8307622

00:17:03.240 --> 00:17:04.708 Almost invariably presented a
NOTE Confidence: 0.8307622

00:17:04.708 --> 00:17:06.543 scientific topic like some science
NOTE Confidence: 0.8307622

00:17:06.543 --> 00:17:08.240 concept very clearly very simply,
NOTE Confidence: 0.8307622

00:17:08.240 --> 00:17:11.444 but they also had a almost a case study,
NOTE Confidence: 0.8307622

00:17:11.450 --> 00:17:12.866 like a person involved,
NOTE Confidence: 0.8307622

00:17:12.866 --> 00:17:14.636 and so it's like you're
NOTE Confidence: 0.8307622

00:17:14.636 --> 00:17:16.462 presenting the concept and then
NOTE Confidence: 0.8307622

00:17:16.462 --> 00:17:18.222 the application of the concept.
NOTE Confidence: 0.8307622

00:17:18.230 --> 00:17:19.658 In the real world,
NOTE Confidence: 0.8307622

00:17:19.658 --> 00:17:21.800 an was at a common formula.
NOTE Confidence: 0.8307622

00:17:21.800 --> 00:17:24.299 Yeah, it was a very standard form,
NOTE Confidence: 0.8444261

00:17:24.300 --> 00:17:24.994 formulaic thing,
NOTE Confidence: 0.8444261

00:17:24.994 --> 00:17:26.382 and sometimes occasion there

NOTE Confidence: 0.8444261

00:17:26.382 --> 00:17:28.230 would be the occasional scandal.

NOTE Confidence: 0.8444261

00:17:28.230 --> 00:17:30.806 Or is the thing that things that

NOTE Confidence: 0.8444261

00:17:30.806 --> 00:17:32.868 didn't workout as as you plan,

NOTE Confidence: 0.8444261

00:17:32.870 --> 00:17:35.060 but for the most part.

NOTE Confidence: 0.8444261

00:17:35.060 --> 00:17:36.575 If you're telling a story

NOTE Confidence: 0.8444261

00:17:36.575 --> 00:17:37.787 about a medical advance,

NOTE Confidence: 0.8444261

00:17:37.790 --> 00:17:40.508 you have to have a human being in it,

NOTE Confidence: 0.8444261

00:17:40.510 --> 00:17:42.202 and I think that sometimes you

NOTE Confidence: 0.8444261

00:17:42.202 --> 00:17:43.724 can convey the wrong impression

NOTE Confidence: 0.8444261

00:17:43.724 --> 00:17:46.083 because you want to have the more

NOTE Confidence: 0.8444261

00:17:46.083 --> 00:17:47.479 attractive human being in it.

NOTE Confidence: 0.8444261

00:17:47.480 --> 00:17:48.696 And like, for instance,

NOTE Confidence: 0.8444261

00:17:48.696 --> 00:17:50.874 if you're doing a story about cancer

NOTE Confidence: 0.8444261

00:17:50.874 --> 00:17:52.883 that that was one of the questions

NOTE Confidence: 0.8444261

00:17:52.883 --> 00:17:55.041 I always ask my students is what's

NOTE Confidence: 0.8444261

00:17:55.041 --> 00:17:56.873 the biggest risk factor for cancer.

NOTE Confidence: 0.8444261

00:17:56.873 --> 00:17:57.782 And of course,

NOTE Confidence: 0.8444261

00:17:57.782 --> 00:17:59.297 people say chemicals or cigarettes

NOTE Confidence: 0.8444261

00:17:59.297 --> 00:18:00.820 is the most common answer,

NOTE Confidence: 0.8444261

00:18:00.820 --> 00:18:03.900 but of course it's age.

NOTE Confidence: 0.8444261

00:18:03.900 --> 00:18:04.590 Only one

NOTE Confidence: 0.831552

00:18:04.590 --> 00:18:06.672 one out of eight women will

NOTE Confidence: 0.831552

00:18:06.672 --> 00:18:08.060 develop breast cancer. Yeah,

NOTE Confidence: 0.831552

00:18:08.060 --> 00:18:10.461 but most of them will develop in

NOTE Confidence: 0.831552

00:18:10.461 --> 00:18:12.939 their 60s and 70s and then add

NOTE Confidence: 0.831552

00:18:12.939 --> 00:18:14.997 it as since that's my cohort,

NOTE Confidence: 0.831552

00:18:15.000 --> 00:18:18.357 I'm not eager for it to happen, but I'm just.

NOTE Confidence: 0.831552

00:18:18.357 --> 00:18:20.520 But there are about 12,000 cases of

NOTE Confidence: 0.831552

00:18:20.589 --> 00:18:22.989 pediatric cancer in the United States.

NOTE Confidence: 0.831552

00:18:22.990 --> 00:18:24.725 Deaths from pediatric cancer in

NOTE Confidence: 0.831552

00:18:24.725 --> 00:18:26.460 the United States every year,

NOTE Confidence: 0.831552

00:18:26.460 --> 00:18:28.875 which each one is a horrible tragedy.

NOTE Confidence: 0.831552

00:18:28.880 --> 00:18:31.309 But there's 600,000 deaths from adult cancer,

NOTE Confidence: 0.831552

00:18:31.310 --> 00:18:34.068 so you have to look at that.

NOTE Confidence: 0.831552

00:18:34.070 --> 00:18:35.738 As a proportion of

NOTE Confidence: 0.8537272

00:18:35.740 --> 00:18:38.764 the so you you knew you know the

NOTE Confidence: 0.8537272

00:18:38.764 --> 00:18:41.579 fundamentals of the field and immunology,

NOTE Confidence: 0.8537272

00:18:41.580 --> 00:18:44.604 and then you found yourself in the 80s

NOTE Confidence: 0.8537272

00:18:44.604 --> 00:18:47.830 and 90s reporting on the AIDS crisis.

NOTE Confidence: 0.8537272

00:18:47.830 --> 00:18:50.872 So how what was that like and how did

NOTE Confidence: 0.8537272

00:18:50.872 --> 00:18:54.265 you interact with the communities on the

NOTE Confidence: 0.8537272

00:18:54.265 --> 00:18:57.427 cyantific and the policy and the well?

NOTE Confidence: 0.8537272

00:18:57.427 --> 00:19:01.180 I was one of the first people there and

NOTE Confidence: 0.8537272

00:19:01.180 --> 00:19:03.795 that was so is very

NOTE Confidence: 0.8537272

00:19:03.795 --> 00:19:05.887 welcomed because they were.

NOTE Confidence: 0.8537272

00:19:05.890 --> 00:19:07.925 Languishing in lack of adversity

NOTE Confidence: 0.8537272

00:19:07.925 --> 00:19:10.376 and the lack of publicity was
NOTE Confidence: 0.8537272

00:19:10.376 --> 00:19:12.398 at the beginning was not just
NOTE Confidence: 0.8537272

00:19:12.398 --> 00:19:14.469 because of the Ronald Reagan,
NOTE Confidence: 0.8537272

00:19:14.470 --> 00:19:16.030 famously not saying the
NOTE Confidence: 0.8537272

00:19:16.030 --> 00:19:17.980 word aids for many years,
NOTE Confidence: 0.8537272

00:19:17.980 --> 00:19:19.930 and the government not being
NOTE Confidence: 0.8537272

00:19:19.930 --> 00:19:21.100 interested in disease.
NOTE Confidence: 0.8537272

00:19:21.100 --> 00:19:23.344 It very quickly was seem to
NOTE Confidence: 0.8537272

00:19:23.344 --> 00:19:24.840 be just affecting stigmatized
NOTE Confidence: 0.8537272

00:19:24.912 --> 00:19:26.947 groups and then poor countries,
NOTE Confidence: 0.8537272

00:19:26.950 --> 00:19:28.900 mostly in Sub Saharan Africa.
NOTE Confidence: 0.8537272

00:19:28.900 --> 00:19:31.036 But throughout the world there was
NOTE Confidence: 0.8537272

00:19:31.036 --> 00:19:34.147 also a lot of resistance in the gay
NOTE Confidence: 0.8537272

00:19:34.147 --> 00:19:36.553 community to talking about it at
NOTE Confidence: 0.8537272

00:19:36.632 --> 00:19:39.158 first because they didn't want it.
NOTE Confidence: 0.8537272

00:19:39.160 --> 00:19:42.520 They thought it would bring on more stigma,

NOTE Confidence: 0.8537272

00:19:42.520 --> 00:19:45.719 but it only been since the stone

NOTE Confidence: 0.8537272

00:19:45.719 --> 00:19:49.081 Stonewall riots in 1969 that there had

NOTE Confidence: 0.8537272

00:19:49.081 --> 00:19:52.290 been a gay liberation movement an in.

NOTE Confidence: 0.8537272

00:19:52.290 --> 00:19:53.814 19 was very recently I have

NOTE Confidence: 0.8537272

00:19:53.814 --> 00:19:55.540 to look this up with Lawrence

NOTE Confidence: 0.8537272

00:19:55.540 --> 00:19:57.490 versus Texas was in the 1980s,

NOTE Confidence: 0.8537272

00:19:57.490 --> 00:20:00.172 which is a Supreme Court case that said that.

NOTE Confidence: 0.8537272

00:20:00.180 --> 00:20:01.880 Anti sodomy laws were unconstitutional.

NOTE Confidence: 0.8537272

00:20:01.880 --> 00:20:02.900 I think was

NOTE Confidence: 0.8204983

00:20:02.900 --> 00:20:04.940 more recent than that. Yeah is

NOTE Confidence: 0.8204983

00:20:04.940 --> 00:20:05.798 very very recent.

NOTE Confidence: 0.8204983

00:20:05.798 --> 00:20:09.064 Yeah so a lot of you know a lot of

NOTE Confidence: 0.8204983

00:20:09.064 --> 00:20:11.059 states homosexuality was illegal right?

NOTE Confidence: 0.8204983

00:20:11.060 --> 00:20:13.106 And so they didn't want people

NOTE Confidence: 0.8204983

00:20:13.106 --> 00:20:15.478 coming in and asking them about it.

NOTE Confidence: 0.8204983

00:20:15.480 --> 00:20:17.660 So it was. It was, uh,
NOTE Confidence: 0.8204983

00:20:17.660 --> 00:20:20.540 I mean I quickly made friends
NOTE Confidence: 0.8204983

00:20:20.540 --> 00:20:22.919 and Anne was able to.
NOTE Confidence: 0.8204983

00:20:22.920 --> 00:20:25.096 Do and I mean my my greatest regret
NOTE Confidence: 0.8204983

00:20:25.096 --> 00:20:27.631 is I didn't do more about HIV aids
NOTE Confidence: 0.8204983

00:20:27.631 --> 00:20:30.095 even though I got a lot of credit
NOTE Confidence: 0.8204983

00:20:30.095 --> 00:20:32.254 for what I did do because I also
NOTE Confidence: 0.8204983

00:20:32.254 --> 00:20:33.948 at the same time was covering the
NOTE Confidence: 0.8204983

00:20:33.948 --> 00:20:35.610 space Shuttle artificial hearts.
NOTE Confidence: 0.8084369

00:20:37.830 --> 00:20:39.734 Rollins of Cancer and you know there was
NOTE Confidence: 0.8084369

00:20:39.734 --> 00:20:41.254 there was constantly constant stories
NOTE Confidence: 0.8084369

00:20:41.254 --> 00:20:43.228 and you just mentioned BF Skinner,
NOTE Confidence: 0.8084369

00:20:43.230 --> 00:20:44.650 which I'd completely forgotten about.
NOTE Confidence: 0.8084369

00:20:44.650 --> 00:20:46.210 Yeah, that was also during the
NOTE Confidence: 0.8084369

00:20:46.210 --> 00:20:48.049 day when he was just starting
NOTE Confidence: 0.8084369

00:20:48.050 --> 00:20:49.905 up. He was just just the breath

NOTE Confidence: 0.8084369

00:20:49.905 --> 00:20:51.748 of the stories that you covered.

NOTE Confidence: 0.8084369

00:20:51.750 --> 00:20:53.448 Like all of the big topics,

NOTE Confidence: 0.8084369

00:20:53.450 --> 00:20:54.586 all the big topics.

NOTE Confidence: 0.8084369

00:20:54.586 --> 00:20:57.430 You were there, right?

NOTE Confidence: 0.8220943

00:20:57.430 --> 00:20:59.536 I was enormously blessed by that

NOTE Confidence: 0.8220943

00:20:59.536 --> 00:21:01.832 because of that I've had this huge

NOTE Confidence: 0.8220943

00:21:01.832 --> 00:21:04.162 amount of you to wake up in the

NOTE Confidence: 0.8220943

00:21:04.162 --> 00:21:05.952 morning and always do something

NOTE Confidence: 0.8220943

00:21:05.952 --> 00:21:08.052 that you can think is interesting.

NOTE Confidence: 0.8220943

00:21:08.052 --> 00:21:09.376 For the most part.

NOTE Confidence: 0.8220943

00:21:09.380 --> 00:21:10.708 Obviously it doesn't always

NOTE Confidence: 0.8220943

00:21:10.710 --> 00:21:12.702 work out well, so how does

NOTE Confidence: 0.8220943

00:21:12.702 --> 00:21:14.030 that work practically for

NOTE Confidence: 0.8220943

00:21:14.030 --> 00:21:16.016 you? Well, a lot of those.

NOTE Confidence: 0.8220943

00:21:16.020 --> 00:21:18.452 A lot of the reporting was based on

NOTE Confidence: 0.8220943

00:21:18.452 --> 00:21:20.997 what was coming out in the journals.
NOTE Confidence: 0.8220943

00:21:21.000 --> 00:21:23.247 Is journals probably too large in extent
NOTE Confidence: 0.8220943

00:21:23.247 --> 00:21:25.999 and I think see now the major publications
NOTE Confidence: 0.8220943

00:21:25.999 --> 00:21:28.350 are backing off from just covering.
NOTE Confidence: 0.8220943

00:21:28.350 --> 00:21:32.337 You know what's new in Journal or JAMA or.
NOTE Confidence: 0.8220943

00:21:32.340 --> 00:21:35.068 Science or nature disk.
NOTE Confidence: 0.8220943

00:21:35.068 --> 00:21:37.796 The size is important.
NOTE Confidence: 0.8220943

00:21:37.800 --> 00:21:43.056 The but will you know if people know this?
NOTE Confidence: 0.8220943

00:21:43.060 --> 00:21:45.293 Press releases are given up in an
NOTE Confidence: 0.8220943

00:21:45.293 --> 00:21:47.563 embargoed fashion a few days in advance
NOTE Confidence: 0.8220943

00:21:47.563 --> 00:21:49.759 so that scientists can excuse me so
NOTE Confidence: 0.8220943

00:21:49.759 --> 00:21:51.823 the reporters can get a chance to get
NOTE Confidence: 0.8220943

00:21:51.823 --> 00:21:54.155 up to speed on the story before they
NOTE Confidence: 0.8220943

00:21:54.155 --> 00:21:56.298 have to write it or broadcast it.
NOTE Confidence: 0.8220943

00:21:56.300 --> 00:21:57.956 But that also has the effect
NOTE Confidence: 0.8220943

00:21:57.956 --> 00:21:59.920 of at 2:00 PM on Thursday.

NOTE Confidence: 0.8220943

00:21:59.920 --> 00:22:01.720 If a story, say in science,

NOTE Confidence: 0.8220943

00:22:01.720 --> 00:22:03.526 it'll come out on every broadcast

NOTE Confidence: 0.8220943

00:22:03.526 --> 00:22:04.429 and print medium,

NOTE Confidence: 0.8220943

00:22:04.430 --> 00:22:07.139 and as a result it looks like it's news.

NOTE Confidence: 0.8220943

00:22:07.140 --> 00:22:09.079 But of course anybody in the field

NOTE Confidence: 0.8220943

00:22:09.079 --> 00:22:11.252 will have heard about this is a

NOTE Confidence: 0.8220943

00:22:11.252 --> 00:22:12.852 conference and talking like sponsor,

NOTE Confidence: 0.8220943

00:22:12.860 --> 00:22:13.460 yeah, but

NOTE Confidence: 0.832551

00:22:13.460 --> 00:22:15.567 it's been going on for a long

NOTE Confidence: 0.832551

00:22:15.570 --> 00:22:17.442 time, but this is when it

NOTE Confidence: 0.832551

00:22:17.442 --> 00:22:18.560 becomes official. News.

NOTE Confidence: 0.8564512

00:22:19.190 --> 00:22:22.565 So how do you? How do you manage that?

NOTE Confidence: 0.8564512

00:22:22.570 --> 00:22:26.330 So I just want to return to the AIDS crisis.

NOTE Confidence: 0.8564512

00:22:26.330 --> 00:22:28.514 So, so here you're you're reading

NOTE Confidence: 0.8564512

00:22:28.514 --> 00:22:30.850 reports of the death toll rising,

NOTE Confidence: 0.8564512

00:22:30.850 --> 00:22:33.100 or maybe giving those reports yourself,
NOTE Confidence: 0.8564512

00:22:33.100 --> 00:22:37.300 sure, and how? How do you know?
NOTE Confidence: 0.8564512

00:22:37.300 --> 00:22:38.750 Where to go after that?
NOTE Confidence: 0.8564512

00:22:38.750 --> 00:22:40.190 Like how do you find?
NOTE Confidence: 0.8564512

00:22:40.190 --> 00:22:42.494 How do you find groups to speak with?
NOTE Confidence: 0.8564512

00:22:42.500 --> 00:22:45.092 How do you select what scientists to go and
NOTE Confidence: 0.88178045

00:22:45.100 --> 00:22:46.550 speak with? Well, it was.
NOTE Confidence: 0.88178045

00:22:46.550 --> 00:22:49.413 It was pretty obvious that there were
NOTE Confidence: 0.88178045

00:22:49.413 --> 00:22:52.398 there weren't that many scientists in the.
NOTE Confidence: 0.88178045

00:22:52.400 --> 00:22:54.962 In the field, who really cared about
NOTE Confidence: 0.88178045

00:22:54.962 --> 00:22:57.640 it so he wasn't hard or doctors
NOTE Confidence: 0.88178045

00:22:57.640 --> 00:23:00.991 under the one of you in the building
NOTE Confidence: 0.88178045

00:23:00.991 --> 00:23:03.546 where we're doing this podcast?
NOTE Confidence: 0.88178045

00:23:03.550 --> 00:23:06.028 As I just saw Jerry Friedlander,
NOTE Confidence: 0.88178045

00:23:06.030 --> 00:23:08.922 who is a hero of HIV, AIDS,
NOTE Confidence: 0.88178045

00:23:08.922 --> 00:23:12.218 and I started interviewing him in the 1980s.

NOTE Confidence: 0.88178045

00:23:12.220 --> 00:23:14.796 He was in the Bronx when there

NOTE Confidence: 0.88178045

00:23:14.796 --> 00:23:16.898 was this horrible epidemic among

NOTE Confidence: 0.88178045

00:23:16.898 --> 00:23:19.658 Ivy drug users and their spouses,

NOTE Confidence: 0.88178045

00:23:19.660 --> 00:23:22.180 an children, an he since done

NOTE Confidence: 0.88178045

00:23:22.180 --> 00:23:24.899 marvelous work in South Africa with.

NOTE Confidence: 0.88178045

00:23:24.900 --> 00:23:26.340 HIV, AIDS and tuberculosis,

NOTE Confidence: 0.88178045

00:23:26.340 --> 00:23:27.420 and he continues.

NOTE Confidence: 0.88178045

00:23:27.420 --> 00:23:29.220 I mean, she's here today.

NOTE Confidence: 0.88178045

00:23:29.220 --> 00:23:31.020 Usually he's in South Africa,

NOTE Confidence: 0.88178045

00:23:31.020 --> 00:23:33.900 so he was here and they're like, yeah,

NOTE Confidence: 0.744651

00:23:33.900 --> 00:23:37.624 they just signed who just saw a

NOTE Confidence: 0.744651

00:23:37.624 --> 00:23:41.712 few minutes ago? Turnovers. Yeah,

NOTE Confidence: 0.744651

00:23:41.712 --> 00:23:45.060 so you're going all over the US all over

NOTE Confidence: 0.7772633

00:23:45.060 --> 00:23:46.548 the world warning world.

NOTE Confidence: 0.7772633

00:23:46.548 --> 00:23:48.780 Yeah, I was sure I would.

NOTE Confidence: 0.7772633

00:23:48.780 --> 00:23:51.006 NBC was very good about that.
NOTE Confidence: 0.7772633

00:23:51.010 --> 00:23:53.930 Sending me to Africa and going at the
NOTE Confidence: 0.7772633

00:23:53.930 --> 00:23:56.485 beginning going to Haiti 1st and then
NOTE Confidence: 0.7772633

00:23:56.485 --> 00:23:58.697 Africa was very tough because they
NOTE Confidence: 0.7772633

00:23:58.697 --> 00:24:01.007 everybody didn't want to be blamed
NOTE Confidence: 0.7772633

00:24:01.007 --> 00:24:03.658 for this disease and they it was.
NOTE Confidence: 0.7772633

00:24:03.658 --> 00:24:05.890 It was highly stigmatized as well.
NOTE Confidence: 0.7772633

00:24:05.890 --> 00:24:08.128 What do you mean like the
NOTE Confidence: 0.7772633

00:24:08.128 --> 00:24:09.242 government or anything?
NOTE Confidence: 0.7772633

00:24:09.242 --> 00:24:10.726 The government certainly ANAN,
NOTE Confidence: 0.7772633

00:24:10.730 --> 00:24:14.790 but finally it would. In our first.
NOTE Confidence: 0.7772633

00:24:14.790 --> 00:24:17.254 What when I first went to Haiti?
NOTE Confidence: 0.7772633

00:24:17.260 --> 00:24:22.380 Which you know this thing came up where.
NOTE Confidence: 0.7772633

00:24:22.380 --> 00:24:24.792 Doctors were seeing people mostly in
NOTE Confidence: 0.7772633

00:24:24.792 --> 00:24:28.195 New York and in Miami, who were Haitians?
NOTE Confidence: 0.7772633

00:24:28.195 --> 00:24:29.440 What originally was?

NOTE Confidence: 0.7772633

00:24:29.440 --> 00:24:34.074 It was gaming and drug users an.

NOTE Confidence: 0.7772633

00:24:34.080 --> 00:24:35.348 And there was no,

NOTE Confidence: 0.7772633

00:24:35.348 --> 00:24:37.250 they didn't have any risk factors.

NOTE Confidence: 0.7772633

00:24:37.250 --> 00:24:39.546 Nobody knew that there was a massive

NOTE Confidence: 0.7772633

00:24:39.546 --> 00:24:41.687 epidemic going in Haiti at the time,

NOTE Confidence: 0.7772633

00:24:41.690 --> 00:24:43.769 but I went to Haiti and was

NOTE Confidence: 0.7772633

00:24:43.769 --> 00:24:45.392 followed around by the secret

NOTE Confidence: 0.7772633

00:24:45.392 --> 00:24:47.702 police and nobody would talk to me.

NOTE Confidence: 0.7772633

00:24:47.710 --> 00:24:49.775 But of course I could talk to

NOTE Confidence: 0.7772633

00:24:49.775 --> 00:24:51.830 Haitian doctors in the United States.

NOTE Confidence: 0.7772633

00:24:51.830 --> 00:24:53.415 But there was enormous discrimination

NOTE Confidence: 0.7772633

00:24:53.415 --> 00:24:54.049 against station.

NOTE Confidence: 0.7772633

00:24:54.050 --> 00:24:55.866 So I did a piece in 1983 where

NOTE Confidence: 0.7772633

00:24:55.866 --> 00:24:57.801 we had Haitian saying that they

NOTE Confidence: 0.7772633

00:24:57.801 --> 00:24:59.931 were fired just because they were

NOTE Confidence: 0.7772633

00:25:00.001 --> 00:25:01.776 Haitians and families were afraid
NOTE Confidence: 0.7772633

00:25:01.776 --> 00:25:04.175 that they would get AIDS from.
NOTE Confidence: 0.7772633

00:25:04.175 --> 00:25:06.960 They were fired in the US because reasons.
NOTE Confidence: 0.8479985

00:25:08.630 --> 00:25:10.706 Well, so that's an aspect of
NOTE Confidence: 0.8479985

00:25:10.706 --> 00:25:12.564 medicine that we're only starting
NOTE Confidence: 0.8479985

00:25:12.564 --> 00:25:14.579 as physicians to talk about.
NOTE Confidence: 0.8479985

00:25:14.580 --> 00:25:17.556 You know, the stigma and the social factors.
NOTE Confidence: 0.8479985

00:25:17.560 --> 00:25:19.900 Like in psychiatry we have this
NOTE Confidence: 0.8479985

00:25:19.900 --> 00:25:21.460 biopsychosocial model where for
NOTE Confidence: 0.8479985

00:25:21.527 --> 00:25:23.739 every patient we have to try to
NOTE Confidence: 0.8479985

00:25:23.739 --> 00:25:25.370 consider the social situation.
NOTE Confidence: 0.8479985

00:25:25.370 --> 00:25:28.580 And so you were reporting on a lot of this
NOTE Confidence: 0.8479985

00:25:28.657 --> 00:25:31.321 in from a medical perspective, right?
NOTE Confidence: 0.8479985

00:25:31.321 --> 00:25:33.547 'cause this is what it was,
NOTE Confidence: 0.8479985

00:25:33.550 --> 00:25:36.418 a medical, introspective and one of
NOTE Confidence: 0.8479985

00:25:36.418 --> 00:25:39.671 the things I went to San Francisco

NOTE Confidence: 0.8479985

00:25:39.671 --> 00:25:42.576 a lot to do the reporting an.

NOTE Confidence: 0.8479985

00:25:42.580 --> 00:25:44.799 And I wasn't the only Reporter who

NOTE Confidence: 0.8479985

00:25:44.799 --> 00:25:47.162 did that for the domestic reporting

NOTE Confidence: 0.8479985

00:25:47.162 --> 00:25:49.397 on the emerging azik epidemic.

NOTE Confidence: 0.8479985

00:25:49.400 --> 00:25:51.512 And the reason was San Francisco

NOTE Confidence: 0.8479985

00:25:51.512 --> 00:25:54.200 had a large gay community of young

NOTE Confidence: 0.8479985

00:25:54.200 --> 00:25:56.600 men who had recently come out,

NOTE Confidence: 0.8479985

00:25:56.600 --> 00:25:58.880 and they were very politically powerful.

NOTE Confidence: 0.8479985

00:25:58.880 --> 00:26:01.112 There was, they had 70,000 registered

NOTE Confidence: 0.8479985

00:26:01.112 --> 00:26:03.430 voters in a city of 600,000,

NOTE Confidence: 0.8479985

00:26:03.430 --> 00:26:06.076 so they were a considerable political force.

NOTE Confidence: 0.8479985

00:26:06.080 --> 00:26:07.640 And as a result,

NOTE Confidence: 0.8479985

00:26:07.640 --> 00:26:09.980 they weren't as afraid an to

NOTE Confidence: 0.8479985

00:26:10.074 --> 00:26:11.550 be open and talk.

NOTE Confidence: 0.8479985

00:26:11.550 --> 00:26:13.695 And then San Francisco General

NOTE Confidence: 0.8479985

00:26:13.695 --> 00:26:15.840 opened its dedicated AIDS units,
NOTE Confidence: 0.8479985

00:26:15.840 --> 00:26:18.408 the inpatient and outpatient in 1983.
NOTE Confidence: 0.8479985

00:26:18.410 --> 00:26:21.850 And so we go even go in there.
NOTE Confidence: 0.8479985

00:26:21.850 --> 00:26:25.702 If I there were big institutions in New York,
NOTE Confidence: 0.8479985

00:26:25.710 --> 00:26:28.242 want some of which refused to
NOTE Confidence: 0.8479985

00:26:28.242 --> 00:26:30.430 treat people with HIV AIDS,
NOTE Confidence: 0.8479985

00:26:30.430 --> 00:26:33.502 which then you can argue about all the
NOTE Confidence: 0.8479985

00:26:33.502 --> 00:26:36.430 ethics of that others like Bellevue,
NOTE Confidence: 0.8479985

00:26:36.430 --> 00:26:40.618 which were just completely overrun the.
NOTE Confidence: 0.8479985

00:26:40.620 --> 00:26:42.560 People who did their residencies,
NOTE Confidence: 0.8479985

00:26:42.560 --> 00:26:44.300 especially in internal medicine,
NOTE Confidence: 0.8479985

00:26:44.300 --> 00:26:47.339 but it almost anything and in the
NOTE Confidence: 0.8479985

00:26:47.339 --> 00:26:49.796 80s through the discovery of the good
NOTE Confidence: 0.8479985

00:26:49.796 --> 00:26:52.258 drugs in the mid 90s at Bellevue,
NOTE Confidence: 0.8479985

00:26:52.260 --> 00:26:54.200 which is a great residency,
NOTE Confidence: 0.8479985

00:26:54.200 --> 00:26:56.858 much sought after.

NOTE Confidence: 0.8479985

00:26:56.860 --> 00:26:58.580 So almost nothing but AIDS,

NOTE Confidence: 0.8479985

00:26:58.580 --> 00:27:00.939 so they were doing things like treating

NOTE Confidence: 0.8479985

00:27:00.939 --> 00:27:02.313 these rare opportunistic infections

NOTE Confidence: 0.8479985

00:27:02.313 --> 00:27:04.143 which in most situations you would

NOTE Confidence: 0.8479985

00:27:04.143 --> 00:27:06.490 never see an American medical practice.

NOTE Confidence: 0.8479985

00:27:06.490 --> 00:27:08.898 And as a whole they treated well.

NOTE Confidence: 0.8479985

00:27:08.900 --> 00:27:11.626 How did I let me finish on something?

NOTE Confidence: 0.8479985

00:27:11.626 --> 00:27:14.718 So a lot of these hospitals and I would

NOTE Confidence: 0.8479985

00:27:14.718 --> 00:27:17.196 not let camera crews in because they

NOTE Confidence: 0.8479985

00:27:17.196 --> 00:27:20.249 did not want the ones that did treat it.

NOTE Confidence: 0.8479985

00:27:20.250 --> 00:27:21.282 People with aids?

NOTE Confidence: 0.8479985

00:27:21.282 --> 00:27:21.970 They didn't.

NOTE Confidence: 0.8479985

00:27:21.970 --> 00:27:24.385 They wouldn't let you in there because

NOTE Confidence: 0.8479985

00:27:24.385 --> 00:27:26.560 they didn't want their other patients

NOTE Confidence: 0.8479985

00:27:26.560 --> 00:27:28.696 to know that they were raised.

NOTE Confidence: 0.8479985

00:27:28.700 --> 00:27:30.718 And in the war, oh.
NOTE Confidence: 0.8479985

00:27:30.720 --> 00:27:31.719 So they didn't.
NOTE Confidence: 0.8479985

00:27:31.719 --> 00:27:34.050 We couldn't take a TV crew in
NOTE Confidence: 0.8479985

00:27:34.128 --> 00:27:35.610 just most hospitals.
NOTE Confidence: 0.81699735

00:27:36.260 --> 00:27:37.750 So you couldn't show people
NOTE Confidence: 0.81699735

00:27:37.750 --> 00:27:38.942 with the situation was
NOTE Confidence: 0.81699735

00:27:38.950 --> 00:27:40.450 like yeah, but you couldn't.
NOTE Confidence: 0.81699735

00:27:40.450 --> 00:27:42.022 San Francisco and I did sometimes
NOTE Confidence: 0.81699735

00:27:42.022 --> 00:27:44.115 in New York we there were certain
NOTE Confidence: 0.81699735

00:27:44.115 --> 00:27:46.083 places like Albert Einstein was much
NOTE Confidence: 0.81699735

00:27:46.083 --> 00:27:48.215 more open about it than other places,
NOTE Confidence: 0.81699735

00:27:48.220 --> 00:27:49.936 but most most places would not
NOTE Confidence: 0.81699735

00:27:49.936 --> 00:27:51.756 let it TV anywhere near or
NOTE Confidence: 0.81699735

00:27:51.756 --> 00:27:53.296 whether people talk about it.
NOTE Confidence: 0.81699735

00:27:53.300 --> 00:27:54.020 Talk about it.
NOTE Confidence: 0.81699735

00:27:54.020 --> 00:27:56.136 I mean they would show up at conferences

NOTE Confidence: 0.81699735

00:27:56.136 --> 00:27:58.386 and you could interview them there,

NOTE Confidence: 0.81699735

00:27:58.390 --> 00:28:00.774 but not in the context of their hospital.

NOTE Confidence: 0.8245435

00:28:01.760 --> 00:28:04.672 So I when I rotated through an

NOTE Confidence: 0.8245435

00:28:04.672 --> 00:28:06.761 infectious disease, units just as

NOTE Confidence: 0.8245435

00:28:06.761 --> 00:28:08.846 part of my medical internship,

NOTE Confidence: 0.8245435

00:28:08.850 --> 00:28:11.741 some of my attendings were either Chinese

NOTE Confidence: 0.8245435

00:28:11.741 --> 00:28:14.292 or already attendings during that period

NOTE Confidence: 0.8245435

00:28:14.292 --> 00:28:17.183 and asking them questions about this crisis.

NOTE Confidence: 0.8245435

00:28:17.190 --> 00:28:20.934 And you know how the public dealt with it,

NOTE Confidence: 0.8245435

00:28:20.940 --> 00:28:23.496 how the government of the FDA

NOTE Confidence: 0.8245435

00:28:23.496 --> 00:28:26.777 dealt with it on the NHS with it?

NOTE Confidence: 0.8245435

00:28:26.780 --> 00:28:28.860 It's a very emotionally charged

NOTE Confidence: 0.8245435

00:28:28.860 --> 00:28:33.038 still even you know, 35 years later.

NOTE Confidence: 0.8245435

00:28:33.040 --> 00:28:36.300 Situation, so I'm curious how.

NOTE Confidence: 0.8245435

00:28:36.300 --> 00:28:38.355 How you navigated those emotions

NOTE Confidence: 0.8245435

00:28:38.355 --> 00:28:40.904 for yourself, like how you managed
NOTE Confidence: 0.8245435

00:28:40.904 --> 00:28:43.059 reporting on something so emotionally
NOTE Confidence: 0.8245435

00:28:43.059 --> 00:28:44.930 provocative and well, it was.
NOTE Confidence: 0.8245435

00:28:44.930 --> 00:28:46.160 It was an
NOTE Confidence: 0.85487026

00:28:46.160 --> 00:28:49.037 after a while. My biggest fight with
NOTE Confidence: 0.85487026

00:28:49.037 --> 00:28:52.329 this was to get stories on the air,
NOTE Confidence: 0.85487026

00:28:52.330 --> 00:28:54.345 because when it became there
NOTE Confidence: 0.85487026

00:28:54.345 --> 00:28:56.854 were these big periods in the
NOTE Confidence: 0.85487026

00:28:56.854 --> 00:28:58.909 history of the AIDS epidemic.
NOTE Confidence: 0.85487026

00:28:58.910 --> 00:29:00.221 HIV AIDS epidemic.
NOTE Confidence: 0.85487026

00:29:00.221 --> 00:29:03.924 One is when Rock Hudson got sick and
NOTE Confidence: 0.85487026

00:29:03.924 --> 00:29:06.709 suddenly this gorgeous leading man.
NOTE Confidence: 0.85487026

00:29:06.710 --> 00:29:09.275 Why did so? Nobody knew he was gay and
NOTE Confidence: 0.85487026

00:29:09.275 --> 00:29:12.087 Magic Johnson in 1991 and other celebrities.
NOTE Confidence: 0.85487026

00:29:12.090 --> 00:29:14.682 So these you can see big spikes and
NOTE Confidence: 0.85487026

00:29:14.682 --> 00:29:17.129 interest in a disease at those times.

NOTE Confidence: 0.85487026

00:29:17.130 --> 00:29:18.810 But for the most part,

NOTE Confidence: 0.85487026

00:29:18.810 --> 00:29:20.490 especially especially before Rock Hudson,

NOTE Confidence: 0.85487026

00:29:20.490 --> 00:29:22.765 it was there wasn't as much interest

NOTE Confidence: 0.85487026

00:29:22.765 --> 00:29:25.188 in it as I would have liked.

NOTE Confidence: 0.85487026

00:29:25.190 --> 00:29:27.750 I would keep coming back and trying to

NOTE Confidence: 0.85487026

00:29:27.750 --> 00:29:30.228 do stories and producers would say no,

NOTE Confidence: 0.85487026

00:29:30.230 --> 00:29:33.350 you know, go do a story on breast

NOTE Confidence: 0.85487026

00:29:33.350 --> 00:29:36.039 cancer or go do a story about.

NOTE Confidence: 0.85487026

00:29:36.040 --> 00:29:38.116 Chronic fatigue syndrome or something like

NOTE Confidence: 0.6543414

00:29:38.120 --> 00:29:42.180 that? Kind of critique central enough, right?

NOTE Confidence: 0.6543414

00:29:42.180 --> 00:29:44.616 What was their logic? Just they wanted

NOTE Confidence: 0.8187822

00:29:44.620 --> 00:29:46.852 more diverse. Well, they want people

NOTE Confidence: 0.8187822

00:29:46.852 --> 00:29:50.096 to watch the TV and the man putting on

NOTE Confidence: 0.8187822

00:29:50.096 --> 00:29:52.998 pictures of men who have sex with men or.

NOTE Confidence: 0.85063374

00:29:55.170 --> 00:29:56.780 People who inject drugs does

NOTE Confidence: 0.85063374

00:29:56.780 --> 00:29:58.390 not attract the audience that
NOTE Confidence: 0.85063374

00:29:58.449 --> 00:30:00.057 the television network wants.
NOTE Confidence: 0.8379224

00:30:01.230 --> 00:30:04.205 Interesting, well at the same time though,
NOTE Confidence: 0.8379224

00:30:04.210 --> 00:30:06.978 the presence of publicity.
NOTE Confidence: 0.8379224

00:30:06.980 --> 00:30:08.048 And and you know,
NOTE Confidence: 0.8379224

00:30:08.048 --> 00:30:09.383 obviously I'm talking as someone
NOTE Confidence: 0.8379224

00:30:09.383 --> 00:30:10.988 who wasn't there and you know,
NOTE Confidence: 0.8379224

00:30:10.990 --> 00:30:13.118 I'm obviously not a scholar of this moment,
NOTE Confidence: 0.8379224

00:30:13.120 --> 00:30:15.526 but. Having the publicity allowed the
NOTE Confidence: 0.8379224

00:30:15.526 --> 00:30:18.515 science to catch up to the epidemic
NOTE Confidence: 0.8379224

00:30:18.515 --> 00:30:20.695 and allowed these politically active
NOTE Confidence: 0.8379224

00:30:20.695 --> 00:30:23.758 groups to be able to help sculpt policy.
NOTE Confidence: 0.8379224

00:30:23.760 --> 00:30:25.308 And so it was
NOTE Confidence: 0.86329854

00:30:25.310 --> 00:30:29.600 a great article. By Alan Brandt who's
NOTE Confidence: 0.86329854

00:30:29.600 --> 00:30:32.030 a historian of medicine at Harvard.
NOTE Confidence: 0.86329854

00:30:32.030 --> 00:30:35.414 It was in the New England Journal of Medicine

NOTE Confidence: 0.86329854

00:30:35.414 --> 00:30:38.106 called How Aids created Global Health,

NOTE Confidence: 0.86329854

00:30:38.110 --> 00:30:40.495 and I highly recommend that

NOTE Confidence: 0.86329854

00:30:40.495 --> 00:30:43.488 you or your listeners check out

NOTE Confidence: 0.86329854

00:30:43.488 --> 00:30:45.568 that that article because.

NOTE Confidence: 0.86329854

00:30:45.570 --> 00:30:48.330 Many things that we take for granted today,

NOTE Confidence: 0.86329854

00:30:48.330 --> 00:30:49.686 such as patient activism,

NOTE Confidence: 0.86329854

00:30:49.686 --> 00:30:52.138 an the need to think about other

NOTE Confidence: 0.86329854

00:30:52.138 --> 00:30:54.539 people in a cooperative way and not.

NOTE Confidence: 0.8251503

00:30:57.150 --> 00:30:59.304 Not necessarily a condescending way which

NOTE Confidence: 0.8251503

00:30:59.304 --> 00:31:01.933 a lot of international health before the

NOTE Confidence: 0.8251503

00:31:01.933 --> 00:31:03.823 HIV epidemic was very condescending.

NOTE Confidence: 0.8251503

00:31:03.830 --> 00:31:06.032 You know we are donors would

NOTE Confidence: 0.8251503

00:31:06.032 --> 00:31:08.317 give with what they would give

NOTE Confidence: 0.8251503

00:31:08.317 --> 00:31:10.879 and it was preceded by a period.

NOTE Confidence: 0.8251503

00:31:10.880 --> 00:31:13.058 There was even worse which was

NOTE Confidence: 0.8251503

00:31:13.058 --> 00:31:14.960 Tropical Medicine where we would.

NOTE Confidence: 0.8251503

00:31:14.960 --> 00:31:16.815 You're protecting our own people

NOTE Confidence: 0.8251503

00:31:16.815 --> 00:31:18.670 or our troops or whatever.

NOTE Confidence: 0.8251503

00:31:18.670 --> 00:31:21.085 So that has to do with the

NOTE Confidence: 0.8251503

00:31:21.085 --> 00:31:24.670 history of public health. But the.

NOTE Confidence: 0.8251503

00:31:24.670 --> 00:31:26.038 AIDS made everything different.

NOTE Confidence: 0.8251503

00:31:26.038 --> 00:31:27.748 Was very clear that there

NOTE Confidence: 0.8251503

00:31:27.748 --> 00:31:29.379 was this massive epidemic,

NOTE Confidence: 0.8251503

00:31:29.380 --> 00:31:30.884 an one of the.

NOTE Confidence: 0.8251503

00:31:30.884 --> 00:31:34.108 And it it's and there's a lot of

NOTE Confidence: 0.8251503

00:31:34.108 --> 00:31:36.706 fear right now that there's going

NOTE Confidence: 0.8251503

00:31:36.706 --> 00:31:40.777 to be a second wave of of because

NOTE Confidence: 0.8251503

00:31:40.777 --> 00:31:43.278 there's 23.3 million people on

NOTE Confidence: 0.8251503

00:31:43.278 --> 00:31:45.418 antiretroviral drugs in the world

NOTE Confidence: 0.8251503

00:31:45.418 --> 00:31:47.130 was an astounding achievement,

NOTE Confidence: 0.8251503

00:31:47.130 --> 00:31:47.980 and the.

NOTE Confidence: 0.8311532

00:31:50.190 --> 00:31:52.464 If and Trump has reauthorized the

NOTE Confidence: 0.8311532

00:31:52.464 --> 00:31:53.980 Trump administration is reauthorized,

NOTE Confidence: 0.8311532

00:31:53.980 --> 00:31:55.870 PEPFAR, which is the major

NOTE Confidence: 0.8311532

00:31:55.870 --> 00:31:57.382 contributor for those bills.

NOTE Confidence: 0.8311532

00:31:57.390 --> 00:31:59.670 There are other donors as well,

NOTE Confidence: 0.8311532

00:31:59.670 --> 00:32:01.656 but the biggest chunk of that

NOTE Confidence: 0.8311532

00:32:01.656 --> 00:32:03.830 comes from the US government,

NOTE Confidence: 0.8311532

00:32:03.830 --> 00:32:05.725 and he proposes cutting into

NOTE Confidence: 0.8311532

00:32:05.725 --> 00:32:07.620 budget for it every year.

NOTE Confidence: 0.8311532

00:32:07.620 --> 00:32:09.846 An you people here in the Yale

NOTE Confidence: 0.8311532

00:32:09.846 --> 00:32:12.006 School of Public Health and others

NOTE Confidence: 0.8311532

00:32:12.006 --> 00:32:14.280 have done calculations you can do

NOTE Confidence: 0.8311532

00:32:14.280 --> 00:32:16.430 just very cold calculations for

NOTE Confidence: 0.8311532

00:32:16.430 --> 00:32:18.986 every \$1,000,000 that gets cut back.

NOTE Confidence: 0.8311532

00:32:18.990 --> 00:32:22.030 How many million people are going to die?

NOTE Confidence: 0.8311532

00:32:22.030 --> 00:32:22.690 Because there?
NOTE Confidence: 0.8311532

00:32:22.690 --> 00:32:23.680 There's no cure,
NOTE Confidence: 0.8311532

00:32:23.680 --> 00:32:25.626 and as a result there's all these
NOTE Confidence: 0.8311532

00:32:25.626 --> 00:32:27.337 people that are going to die
NOTE Confidence: 0.8311532

00:32:27.337 --> 00:32:28.963 if they don't get their drugs.
NOTE Confidence: 0.84448385

00:32:29.840 --> 00:32:31.440 So that's the intersection of
NOTE Confidence: 0.84448385

00:32:31.440 --> 00:32:33.360 advocacy and policy. Then write an
NOTE Confidence: 0.84448385

00:32:33.360 --> 00:32:35.600 in that that came about them into.
NOTE Confidence: 0.84448385

00:32:35.600 --> 00:32:38.230 Don't forget the. Larry Kramer,
NOTE Confidence: 0.84448385

00:32:38.230 --> 00:32:40.379 who I become I became very close
NOTE Confidence: 0.84448385

00:32:40.379 --> 00:32:42.574 to the famous AIDS activist who
NOTE Confidence: 0.84448385

00:32:42.574 --> 00:32:44.980 started the gay men's health crisis,
NOTE Confidence: 0.84448385

00:32:44.980 --> 00:32:47.476 first as a support group in
NOTE Confidence: 0.84448385

00:32:47.476 --> 00:32:49.590 1981 and he started out.
NOTE Confidence: 0.84448385

00:32:49.590 --> 00:32:52.250 Screaming and yelling at there was this
NOTE Confidence: 0.84448385

00:32:52.250 --> 00:32:54.349 horrible thing going on and he was.

NOTE Confidence: 0.84448385

00:32:54.350 --> 00:32:56.590 He had enormous pushback from other members

NOTE Confidence: 0.84448385

00:32:56.590 --> 00:32:59.447 of the gay community that he was approved.

NOTE Confidence: 0.84448385

00:32:59.450 --> 00:33:01.844 He wanted to close down the bath

NOTE Confidence: 0.84448385

00:33:01.844 --> 00:33:03.914 houses that places where men went

NOTE Confidence: 0.84448385

00:33:03.914 --> 00:33:06.350 to have ***** and that was a huge

NOTE Confidence: 0.84448385

00:33:06.350 --> 00:33:08.642 part of the early years was fight

NOTE Confidence: 0.84448385

00:33:08.642 --> 00:33:10.922 within the gay community over whether

NOTE Confidence: 0.84448385

00:33:10.922 --> 00:33:13.423 to close down the bath houses and

NOTE Confidence: 0.84448385

00:33:13.423 --> 00:33:16.602 Kramer then got tired of the just the

NOTE Confidence: 0.84448385

00:33:16.602 --> 00:33:19.626 advocacy and he started acting up.

NOTE Confidence: 0.84448385

00:33:19.630 --> 00:33:22.104 An act up accomplished a lot of

NOTE Confidence: 0.84448385

00:33:22.104 --> 00:33:24.590 called attention to a lot of things,

NOTE Confidence: 0.84448385

00:33:24.590 --> 00:33:27.281 but then act up spun off yet another group

NOTE Confidence: 0.84448385

00:33:27.281 --> 00:33:29.538 called the Treatment Action Coalition,

NOTE Confidence: 0.84448385

00:33:29.540 --> 00:33:31.664 which exists to this day and

NOTE Confidence: 0.84448385

00:33:31.664 --> 00:33:32.726 as marvelous work,
NOTE Confidence: 0.84448385

00:33:32.730 --> 00:33:34.907 because what they did was they learn
NOTE Confidence: 0.84448385

00:33:34.907 --> 00:33:36.693 they became as knowledgeable about
NOTE Confidence: 0.84448385

00:33:36.693 --> 00:33:39.444 the disease as many of the scientists,
NOTE Confidence: 0.84448385

00:33:39.450 --> 00:33:42.290 so they thought and it was a big,
NOTE Confidence: 0.84448385

00:33:42.290 --> 00:33:44.794 big fight to get a seat at the
NOTE Confidence: 0.84448385

00:33:44.794 --> 00:33:47.598 table on FDA and NIH review panels.
NOTE Confidence: 0.84448385

00:33:47.600 --> 00:33:49.640 And but they got it.
NOTE Confidence: 0.84448385

00:33:49.640 --> 00:33:51.596 And it made a big difference,
NOTE Confidence: 0.84448385

00:33:51.600 --> 00:33:53.240 and now it's standard procedure.
NOTE Confidence: 0.84448385

00:33:53.240 --> 00:33:54.548 This consumer representatives and
NOTE Confidence: 0.84448385

00:33:54.548 --> 00:33:56.508 all those things. But it didn't.
NOTE Confidence: 0.84448385

00:33:56.508 --> 00:33:58.138 It wasn't always that way.
NOTE Confidence: 0.84448385

00:33:58.140 --> 00:34:00.471 And then the even people who were
NOTE Confidence: 0.84448385

00:34:00.471 --> 00:34:03.079 working full time on the problem at the
NOTE Confidence: 0.84448385

00:34:03.079 --> 00:34:05.339 NIH were disgusted at the idea none.

NOTE Confidence: 0.84448385

00:34:05.340 --> 00:34:06.970 Now that they were homophobic,

NOTE Confidence: 0.84448385

00:34:06.970 --> 00:34:08.600 but that non scientists would

NOTE Confidence: 0.84448385

00:34:08.600 --> 00:34:09.904 come into the room.

NOTE Confidence: 0.84448385

00:34:09.910 --> 00:34:12.852 But if you talk to some of these non

NOTE Confidence: 0.84448385

00:34:12.852 --> 00:34:14.488 scientists they actually had this,

NOTE Confidence: 0.84448385

00:34:14.490 --> 00:34:17.028 you know there's.

NOTE Confidence: 0.84448385

00:34:17.030 --> 00:34:18.221 Cat's encyclopedic knowledge.

NOTE Confidence: 0.84448385

00:34:18.221 --> 00:34:18.618 That's

NOTE Confidence: 0.81679183

00:34:18.620 --> 00:34:20.972 so I'm turning around my head

NOTE Confidence: 0.81679183

00:34:20.972 --> 00:34:23.380 around this as as you know,

NOTE Confidence: 0.81679183

00:34:23.380 --> 00:34:25.355 someone that knows a little

NOTE Confidence: 0.81679183

00:34:25.355 --> 00:34:27.800 bit about the science but very

NOTE Confidence: 0.81679183

00:34:27.800 --> 00:34:29.730 little about the you know,

NOTE Confidence: 0.81679183

00:34:29.730 --> 00:34:31.346 the the advocacy component,

NOTE Confidence: 0.81679183

00:34:31.346 --> 00:34:34.226 and so these people have got together

NOTE Confidence: 0.81679183

00:34:34.226 --> 00:34:36.879 and act up an they engaged media.
NOTE Confidence: 0.81679183

00:34:36.880 --> 00:34:38.870 They staged protests, Anaza results.
NOTE Confidence: 0.81679183

00:34:38.870 --> 00:34:42.038 They were able to curb the public opinion,
NOTE Confidence: 0.81679183

00:34:42.040 --> 00:34:44.422 which then also changed the way
NOTE Confidence: 0.81679183

00:34:44.422 --> 00:34:45.610 science functions, right?
NOTE Confidence: 0.874405589

00:34:45.610 --> 00:34:47.332 And there were.
NOTE Confidence: 0.874405589

00:34:47.332 --> 00:34:51.350 Yes, because one of the big questions.
NOTE Confidence: 0.874405589

00:34:51.350 --> 00:34:53.835 Which goes back to what I was.
NOTE Confidence: 0.874405589

00:34:53.840 --> 00:34:56.334 I had mentioned Mary Lasker, Mary Lasker's,
NOTE Confidence: 0.874405589

00:34:56.334 --> 00:34:58.868 and the 1971 War on Cancer was
NOTE Confidence: 0.874405589

00:34:58.868 --> 00:35:01.288 based on the notion that we don't.
NOTE Confidence: 0.874405589

00:35:01.290 --> 00:35:03.065 We can't just sit around
NOTE Confidence: 0.874405589

00:35:03.065 --> 00:35:04.840 and wait for basic research.
NOTE Confidence: 0.874405589

00:35:04.840 --> 00:35:07.311 We have to have targeted research and
NOTE Confidence: 0.874405589

00:35:07.311 --> 00:35:09.136 that's huge policy argument about
NOTE Confidence: 0.874405589

00:35:09.136 --> 00:35:11.586 where it where does work come from.

NOTE Confidence: 0.874405589

00:35:11.590 --> 00:35:13.550 But but.

NOTE Confidence: 0.874405589

00:35:13.550 --> 00:35:16.043 At some point you have to say that we

NOTE Confidence: 0.874405589

00:35:16.043 --> 00:35:18.710 have this massive public health problem.

NOTE Confidence: 0.874405589

00:35:18.710 --> 00:35:20.648 We have to just worry about

NOTE Confidence: 0.874405589

00:35:20.648 --> 00:35:22.729 this and think about things that

NOTE Confidence: 0.874405589

00:35:22.729 --> 00:35:24.895 will make a difference in this.

NOTE Confidence: 0.874405589

00:35:24.900 --> 00:35:25.980 Anne Marie lost,

NOTE Confidence: 0.874405589

00:35:25.980 --> 00:35:28.892 we wanted to do that with cancer and

NOTE Confidence: 0.874405589

00:35:28.892 --> 00:35:31.436 it turned out it was way too early.

NOTE Confidence: 0.874405589

00:35:31.440 --> 00:35:33.498 Nobody even when in 1971 nobody

NOTE Confidence: 0.874405589

00:35:33.498 --> 00:35:34.184 even knew

NOTE Confidence: 0.82534134

00:35:34.190 --> 00:35:36.598 what caused cancer. I mean it was

NOTE Confidence: 0.82534134

00:35:36.600 --> 00:35:38.658 not. Uncle genes were not discovered.

NOTE Confidence: 0.82534134

00:35:38.660 --> 00:35:40.730 They weren't discovered until 1976 in

NOTE Confidence: 0.82534134

00:35:40.730 --> 00:35:43.479 chickens and then in 1981 and human beings.

NOTE Confidence: 0.82534134

00:35:43.480 --> 00:35:45.856 So that was a lot of.
NOTE Confidence: 0.82534134

00:35:45.860 --> 00:35:47.888 Time passed and everybody the money
NOTE Confidence: 0.82534134

00:35:47.888 --> 00:35:50.631 it was was money and it did support
NOTE Confidence: 0.82534134

00:35:50.631 --> 00:35:52.617 basic research that led to those
NOTE Confidence: 0.82534134

00:35:52.688 --> 00:35:54.508 discoveries which are just now
NOTE Confidence: 0.82534134

00:35:54.508 --> 00:35:57.030 starting to lead to drugs and well
NOTE Confidence: 0.8454631

00:35:57.030 --> 00:35:58.770 the precision medicine you know.
NOTE Confidence: 0.8454631

00:35:58.770 --> 00:36:01.213 Oncology is the poster child of precision
NOTE Confidence: 0.8454631

00:36:01.213 --> 00:36:03.310 medicine nowadays right? Also the actual
NOTE Confidence: 0.8454631

00:36:03.310 --> 00:36:05.403 numbers of people who get help or
NOTE Confidence: 0.8454631

00:36:05.403 --> 00:36:07.808 are much lower than you would think
NOTE Confidence: 0.8454631

00:36:07.808 --> 00:36:09.974 about because one of the difficulties
NOTE Confidence: 0.8454631

00:36:10.041 --> 00:36:12.279 about doing a story about something
NOTE Confidence: 0.8454631

00:36:12.279 --> 00:36:14.506 like a new immunotherapy for cancer
NOTE Confidence: 0.8454631

00:36:14.506 --> 00:36:16.684 is you find somebody who was.
NOTE Confidence: 0.8454631

00:36:16.690 --> 00:36:19.030 Almost dead yesterday and is now

NOTE Confidence: 0.8454631

00:36:19.030 --> 00:36:21.289 is running the marathon and yeah,

NOTE Confidence: 0.8454631

00:36:21.290 --> 00:36:24.331 but it turns out that only 12% of

NOTE Confidence: 0.8454631

00:36:24.331 --> 00:36:25.775 people who get immunotherapy's

NOTE Confidence: 0.8454631

00:36:25.775 --> 00:36:28.039 overall show any kind of response

NOTE Confidence: 0.8454631

00:36:28.039 --> 00:36:30.391 that I'm talking about not talking

NOTE Confidence: 0.8454631

00:36:30.391 --> 00:36:32.010 about surviving for years.

NOTE Confidence: 0.8454631

00:36:32.010 --> 00:36:34.308 I'm just any kind of response,

NOTE Confidence: 0.8454631

00:36:34.310 --> 00:36:36.220 let alone people who were.

NOTE Confidence: 0.82468283

00:36:38.280 --> 00:36:39.827 What you would call a cure it

NOTE Confidence: 0.82468283

00:36:39.827 --> 00:36:41.980 if you have go for several years

NOTE Confidence: 0.82468283

00:36:41.980 --> 00:36:43.250 without recurrence? Well, so

NOTE Confidence: 0.82468283

00:36:43.250 --> 00:36:46.234 how do you view so one of the

NOTE Confidence: 0.82468283

00:36:46.234 --> 00:36:48.618 things I've observed is that.

NOTE Confidence: 0.82468283

00:36:48.620 --> 00:36:50.390 More specifically in in psychiatry,

NOTE Confidence: 0.82468283

00:36:50.390 --> 00:36:52.854 my field every five to 10 years.

NOTE Confidence: 0.82468283

00:36:52.860 --> 00:36:54.535 Someone writes this paper that
NOTE Confidence: 0.82468283

00:36:54.535 --> 00:36:56.653 we are about to enter the
NOTE Confidence: 0.82468283

00:36:56.653 --> 00:36:58.502 Golden age of psychiatry, right?
NOTE Confidence: 0.82468283

00:36:58.502 --> 00:37:00.973 See a lot of Golden Age is
NOTE Confidence: 0.82468283

00:37:00.973 --> 00:37:02.739 a lot of goals, and
NOTE Confidence: 0.8075631

00:37:02.740 --> 00:37:05.629 then you see it in every field of medicine
NOTE Confidence: 0.8075631

00:37:05.629 --> 00:37:08.735 is a world where about we're about there,
NOTE Confidence: 0.8075631

00:37:08.740 --> 00:37:12.148 I mean, and it's absolutely fascinating.
NOTE Confidence: 0.8075631

00:37:12.150 --> 00:37:14.929 About how long things can take Francis
NOTE Confidence: 0.8075631

00:37:14.929 --> 00:37:18.005 Collins, who's now the director of
NOTE Confidence: 0.8075631

00:37:18.005 --> 00:37:20.680 the National Institutes of Health?
NOTE Confidence: 0.8075631

00:37:20.680 --> 00:37:23.032 As head of the Human Genome Project
NOTE Confidence: 0.8075631

00:37:23.032 --> 00:37:24.766 discovered, the gene for cystic
NOTE Confidence: 0.8075631

00:37:24.766 --> 00:37:27.400 fibrosis in I have to look it up.
NOTE Confidence: 0.8075631

00:37:27.400 --> 00:37:28.744 I don't have it.
NOTE Confidence: 0.8075631

00:37:28.744 --> 00:37:31.095 I thought I had, but it was,

NOTE Confidence: 0.8075631

00:37:31.095 --> 00:37:32.774 I think in the 1980s,

NOTE Confidence: 0.8075631

00:37:32.774 --> 00:37:34.120 before the Genome project.

NOTE Confidence: 0.8075631

00:37:34.120 --> 00:37:35.795 Yeah before long because yeah,

NOTE Confidence: 0.8075631

00:37:35.800 --> 00:37:38.145 in the days when it took forever,

NOTE Confidence: 0.8075631

00:37:38.150 --> 00:37:40.145 but it was just this last week

NOTE Confidence: 0.8075631

00:37:40.145 --> 00:37:42.245 that the FDA approved a gene

NOTE Confidence: 0.8075631

00:37:42.245 --> 00:37:44.195 based drug for cystic fibrosis.

NOTE Confidence: 0.8075631

00:37:44.200 --> 00:37:46.216 That seems to be truly effective.

NOTE Confidence: 0.8075631

00:37:46.220 --> 00:37:46.890 Oh, I

NOTE Confidence: 0.8383486

00:37:46.890 --> 00:37:48.230 hadn't heard of that.

NOTE Confidence: 0.83391863

00:37:49.760 --> 00:37:52.112 King, about decades between you and it

NOTE Confidence: 0.83391863

00:37:52.112 --> 00:37:54.560 looks so exciting when you and it's true,

NOTE Confidence: 0.83391863

00:37:54.560 --> 00:37:56.800 it was exciting to know that there

NOTE Confidence: 0.83391863

00:37:56.800 --> 00:37:59.228 was this gene. But at the time,

NOTE Confidence: 0.83391863

00:37:59.228 --> 00:38:01.063 kids with cystic fibrosis were

NOTE Confidence: 0.83391863

00:38:01.063 --> 00:38:03.194 living there be 6 or 7 you know.
NOTE Confidence: 0.83391863

00:38:03.200 --> 00:38:05.423 Now you have 40 and 50 year olds and
NOTE Confidence: 0.83391863

00:38:05.423 --> 00:38:08.130 it looks like they may soon have a
NOTE Confidence: 0.83391863

00:38:08.130 --> 00:38:10.240 completely normal life expectancy. So
NOTE Confidence: 0.83391863

00:38:10.240 --> 00:38:12.800 so this perennial question of the Golden Age.
NOTE Confidence: 0.83391863

00:38:12.800 --> 00:38:14.485 This is something that really
NOTE Confidence: 0.83391863

00:38:14.485 --> 00:38:16.532 fascinates me and I spend time
NOTE Confidence: 0.83391863

00:38:16.532 --> 00:38:18.876 agonizing over because a lot of it is,
NOTE Confidence: 0.83391863

00:38:18.880 --> 00:38:21.176 you know, science is based on this.
NOTE Confidence: 0.83391863

00:38:21.180 --> 00:38:22.320 Idea of of grants right?
NOTE Confidence: 0.83391863

00:38:22.320 --> 00:38:24.128 If you want to be an academic scientist,
NOTE Confidence: 0.83391863

00:38:24.130 --> 00:38:25.946 you write a grant for five years, right?
NOTE Confidence: 0.83391863

00:38:25.946 --> 00:38:27.754 And you say I'm going to do this.
NOTE Confidence: 0.83391863

00:38:27.760 --> 00:38:29.244 That and the other an at the
NOTE Confidence: 0.83391863

00:38:29.244 --> 00:38:32.120 end of five years, you know.
NOTE Confidence: 0.83391863

00:38:32.120 --> 00:38:34.598 Reflective scientists will be like did

NOTE Confidence: 0.83391863

00:38:34.598 --> 00:38:36.948 I actually accomplish those things and

NOTE Confidence: 0.83391863

00:38:36.948 --> 00:38:39.139 something that you know in your book

NOTE Confidence: 0.83391863

00:38:39.139 --> 00:38:41.740 is how after there is this increased

NOTE Confidence: 0.83391863

00:38:41.740 --> 00:38:44.291 funding for breast cancer or the NCI,

NOTE Confidence: 0.83391863

00:38:44.291 --> 00:38:46.076 the National Cancer Institute had

NOTE Confidence: 0.83391863

00:38:46.076 --> 00:38:48.028 their budget tripled or doubled.

NOTE Confidence: 0.83391863

00:38:48.030 --> 00:38:51.360 His order order of magnitude all of a sudden.

NOTE Confidence: 0.83391863

00:38:51.360 --> 00:38:53.526 All these scientists who were basic

NOTE Confidence: 0.83391863

00:38:53.526 --> 00:38:55.413 scientists began to be interested

NOTE Confidence: 0.83391863

00:38:55.413 --> 00:38:56.909 in a few sentences.

NOTE Confidence: 0.83391863

00:38:56.910 --> 00:38:59.130 At the end of their granite

NOTE Confidence: 0.83391863

00:38:59.130 --> 00:39:00.610 studying cancer right right?

NOTE Confidence: 0.83391863

00:39:00.610 --> 00:39:00.980 And

NOTE Confidence: 0.7975435

00:39:00.980 --> 00:39:02.970 you can do it, yeah?

NOTE Confidence: 0.7975435

00:39:02.970 --> 00:39:05.328 Is pretty easy as you know,

NOTE Confidence: 0.7975435

00:39:05.330 --> 00:39:08.867 as a scientist that to write those words in,
NOTE Confidence: 0.7975435

00:39:08.870 --> 00:39:10.645 because almost any basic science
NOTE Confidence: 0.7975435

00:39:10.645 --> 00:39:13.774 can be said to be relevant to the
NOTE Confidence: 0.7975435

00:39:13.774 --> 00:39:15.904 cancer problem because the cancer
NOTE Confidence: 0.7975435

00:39:15.904 --> 00:39:18.300 problem is how cells work, right?
NOTE Confidence: 0.8097041

00:39:18.300 --> 00:39:21.830 Yes, how does the body where? How does the
NOTE Confidence: 0.8097041

00:39:21.830 --> 00:39:23.864 body work and therefore you can
NOTE Confidence: 0.8097041

00:39:23.864 --> 00:39:26.160 make it an it's interesting,
NOTE Confidence: 0.8097041

00:39:26.160 --> 00:39:28.125 the immuno therapy stuff came
NOTE Confidence: 0.8097041

00:39:28.125 --> 00:39:30.090 from 2 lines of research.
NOTE Confidence: 0.8097041

00:39:30.090 --> 00:39:32.590 One was just really basic
NOTE Confidence: 0.8097041

00:39:32.590 --> 00:39:34.590 research immunology and mice.
NOTE Confidence: 0.8097041

00:39:34.590 --> 00:39:35.802 By James Allison.
NOTE Confidence: 0.8097041

00:39:35.802 --> 00:39:38.226 When when he was at Berkeley,
NOTE Confidence: 0.8097041

00:39:38.230 --> 00:39:41.450 now he's at MD Anderson an the
NOTE Confidence: 0.8097041

00:39:41.450 --> 00:39:44.669 the other came from a discovery.

NOTE Confidence: 0.8097041

00:39:44.670 --> 00:39:47.130 That was made very, very applied.

NOTE Confidence: 0.8097041

00:39:47.130 --> 00:39:49.972 An HIV discovery that when the HIV

NOTE Confidence: 0.8097041

00:39:49.972 --> 00:39:52.894 attacks the type of word but white

NOTE Confidence: 0.8097041

00:39:52.894 --> 00:39:55.330 blood cells called CD four cells.

NOTE Confidence: 0.8097041

00:39:55.330 --> 00:39:57.380 It doesn't just attach to

NOTE Confidence: 0.8097041

00:39:57.380 --> 00:39:59.430 11 protein on the surface,

NOTE Confidence: 0.8097041

00:39:59.430 --> 00:40:00.368 it attached.

NOTE Confidence: 0.8097041

00:40:00.368 --> 00:40:03.651 To a coreceptor and there was a

NOTE Confidence: 0.8097041

00:40:03.651 --> 00:40:06.896 study of sex workers female sex

NOTE Confidence: 0.8097041

00:40:06.896 --> 00:40:10.150 workers in Nairobi which found that.

NOTE Confidence: 0.8020532

00:40:12.170 --> 00:40:13.965 A very small percentage less

NOTE Confidence: 0.8020532

00:40:13.965 --> 00:40:16.220 than one by far of them,

NOTE Confidence: 0.8020532

00:40:16.220 --> 00:40:18.045 had unprotected sex with thousands

NOTE Confidence: 0.8020532

00:40:18.045 --> 00:40:20.657 of men who were infected and it

NOTE Confidence: 0.8020532

00:40:20.657 --> 00:40:22.467 never got the diseases themselves.

NOTE Confidence: 0.8020532

00:40:22.470 --> 00:40:24.717 And it turned out that they had
NOTE Confidence: 0.8020532

00:40:24.717 --> 00:40:27.260 a defect in this coreceptor Ann.
NOTE Confidence: 0.8020532

00:40:27.260 --> 00:40:29.732 This is the Co receptor that makes up
NOTE Confidence: 0.8020532

00:40:29.732 --> 00:40:32.779 what the basis for immunotherapy for cancer.
NOTE Confidence: 0.8020532

00:40:32.780 --> 00:40:35.012 Now we have these two 2
NOTE Confidence: 0.8020532

00:40:35.012 --> 00:40:36.830 lines of research that say
NOTE Confidence: 0.8020532

00:40:36.830 --> 00:40:38.302 you never know, right?
NOTE Confidence: 0.8020532

00:40:38.302 --> 00:40:39.768 Yeah, exactly unknown unknown.
NOTE Confidence: 0.8020532

00:40:39.770 --> 00:40:41.390 Yeah you were working
NOTE Confidence: 0.8020532

00:40:41.390 --> 00:40:43.820 with mice in a lab about.
NOTE Confidence: 0.8020532

00:40:43.820 --> 00:40:46.524 Immunology is is one thing and but also
NOTE Confidence: 0.8020532

00:40:46.524 --> 00:40:48.677 studying Kenyan sex workers is another.
NOTE Confidence: 0.8020532

00:40:48.680 --> 00:40:51.158 Another thing is why is he why
NOTE Confidence: 0.8020532

00:40:51.158 --> 00:40:52.840 somebody bothering to do this?
NOTE Confidence: 0.8020532

00:40:52.840 --> 00:40:55.115 Well it turns out that you know
NOTE Confidence: 0.8020532

00:40:55.115 --> 00:40:57.349 in the world one human being,

NOTE Confidence: 0.8020532

00:40:57.350 --> 00:40:59.126 the Berlin patient has been cured

NOTE Confidence: 0.8020532

00:40:59.126 --> 00:41:01.382 of HIV and it was because he

NOTE Confidence: 0.8020532

00:41:01.382 --> 00:41:03.052 got a transplant from somebody

NOTE Confidence: 0.8020532

00:41:03.052 --> 00:41:05.018 who had this defective receptor

NOTE Confidence: 0.8020532

00:41:05.018 --> 00:41:07.068 as a treatment for leukemia.

NOTE Confidence: 0.8020532

00:41:07.070 --> 00:41:09.499 So he is now cured of HIV.

NOTE Confidence: 0.8020532

00:41:09.500 --> 00:41:11.581 Kind of incidentally yeah I saw

NOTE Confidence: 0.8020532

00:41:11.581 --> 00:41:12.995 that but unfortunately it's

NOTE Confidence: 0.8020532

00:41:12.995 --> 00:41:14.770 not something you want to.

NOTE Confidence: 0.8020532

00:41:14.770 --> 00:41:17.068 Do is routinely, for you know,

NOTE Confidence: 0.8020532

00:41:17.070 --> 00:41:19.362 the 35 million people in the

NOTE Confidence: 0.8020532

00:41:19.362 --> 00:41:21.280 world who are moving with

NOTE Confidence: 0.79865956

00:41:21.280 --> 00:41:23.200 HIV, but my head well.

NOTE Confidence: 0.79865956

00:41:23.200 --> 00:41:25.112 So yes, I I fully.

NOTE Confidence: 0.79865956

00:41:25.112 --> 00:41:26.640 I fully accept that.

NOTE Confidence: 0.79865956

00:41:26.640 --> 00:41:28.172 You know serendipity is
NOTE Confidence: 0.79865956

00:41:28.172 --> 00:41:30.087 a large part of science.
NOTE Confidence: 0.79865956

00:41:30.090 --> 00:41:32.322 And embracing these serendipitous
NOTE Confidence: 0.79865956

00:41:32.322 --> 00:41:34.554 discoveries often leads to.
NOTE Confidence: 0.79865956

00:41:34.560 --> 00:41:37.146 Wonderful things like the unknown unknown.
NOTE Confidence: 0.79865956

00:41:37.150 --> 00:41:40.606 So yeah, there's a lot of potential there.
NOTE Confidence: 0.79865956

00:41:40.610 --> 00:41:43.058 However, one of the things that
NOTE Confidence: 0.79865956

00:41:43.058 --> 00:41:46.042 makes me anxious is the selling of
NOTE Confidence: 0.79865956

00:41:46.042 --> 00:41:49.010 science in a way that isn't completely
NOTE Confidence: 0.79865956

00:41:49.090 --> 00:41:51.410 driven by the science itself.
NOTE Confidence: 0.79865956

00:41:51.410 --> 00:41:52.550 O for example,
NOTE Confidence: 0.79865956

00:41:52.550 --> 00:41:55.708 the the idea of selling your work is
NOTE Confidence: 0.79865956

00:41:55.708 --> 00:41:58.222 being curated for a specific disease
NOTE Confidence: 0.79865956

00:41:58.222 --> 00:42:00.910 when it's not directly related.
NOTE Confidence: 0.79865956

00:42:00.910 --> 00:42:03.658 You know there is some salesmanship
NOTE Confidence: 0.79865956

00:42:03.658 --> 00:42:04.574 in grantsmanship.

NOTE Confidence: 0.79865956

00:42:04.580 --> 00:42:07.124 And you know, in order to get funded,

NOTE Confidence: 0.79865956

00:42:07.130 --> 00:42:09.050 you have to get people excited.

NOTE Confidence: 0.79865956

00:42:09.050 --> 00:42:10.640 However, this Golden age question.

NOTE Confidence: 0.8597226

00:42:15.460 --> 00:42:16.399 Sorry, go ahead

NOTE Confidence: 0.8597226

00:42:16.400 --> 00:42:18.290 and now the goal it well.

NOTE Confidence: 0.8597226

00:42:18.290 --> 00:42:20.558 One of the things that happens if you talk

NOTE Confidence: 0.8597226

00:42:20.558 --> 00:42:22.314 about there are lobbyists in Washington

NOTE Confidence: 0.8597226

00:42:22.314 --> 00:42:24.205 who work on behalf of organizations

NOTE Confidence: 0.8597226

00:42:24.205 --> 00:42:26.539 like the American Association for the

NOTE Confidence: 0.8597226

00:42:26.539 --> 00:42:29.408 Advancement of Science or the American

NOTE Confidence: 0.8597226

00:42:29.408 --> 00:42:31.543 Association of Universities. Anne.

NOTE Confidence: 0.8597226

00:42:31.543 --> 00:42:35.440 The way that they have ways of doing it,

NOTE Confidence: 0.8597226

00:42:35.440 --> 00:42:37.744 which is they tie it all it gets

NOTE Confidence: 0.8597226

00:42:37.744 --> 00:42:39.929 tide up with other social service

NOTE Confidence: 0.8597226

00:42:39.929 --> 00:42:43.112 programs and as a result it lifts the

NOTE Confidence: 0.8597226

00:42:43.112 --> 00:42:45.548 tide and then then then scientists.

NOTE Confidence: 0.8597226

00:42:45.550 --> 00:42:48.902 Add places like the NIH or the National

NOTE Confidence: 0.8597226

00:42:48.902 --> 00:42:51.403 Science Foundation can make the decision

NOTE Confidence: 0.8597226

00:42:51.403 --> 00:42:54.080 about what where the money should go,

NOTE Confidence: 0.8597226

00:42:54.080 --> 00:42:56.782 and it doesn't just go to silly

NOTE Confidence: 0.8597226

00:42:56.782 --> 00:42:59.690 projects that are designed to try to

NOTE Confidence: 0.8597226

00:42:59.690 --> 00:43:02.192 cure diseases kind of offbeat way,

NOTE Confidence: 0.8597226

00:43:02.200 --> 00:43:05.950 but a lot of stuff.

NOTE Confidence: 0.8597226

00:43:05.950 --> 00:43:07.966 As you know, does get published.

NOTE Confidence: 0.8597226

00:43:07.970 --> 00:43:09.314 It never gets replicated,

NOTE Confidence: 0.8597226

00:43:09.314 --> 00:43:11.338 replicated or reproduced or refer to

NOTE Confidence: 0.8597226

00:43:11.340 --> 00:43:14.036 and just goes off in the deep end,

NOTE Confidence: 0.8597226

00:43:14.040 --> 00:43:16.632 and there's a lot of concern about that

NOTE Confidence: 0.8597226

00:43:16.632 --> 00:43:19.316 and exactly how you steer this gigantic

NOTE Confidence: 0.8597226

00:43:19.316 --> 00:43:21.631 ship and the scientific enterprise is

NOTE Confidence: 0.8597226

00:43:21.631 --> 00:43:23.863 just growing so rapidly it if you look

NOTE Confidence: 0.8597226

00:43:23.863 --> 00:43:26.509 at the charts of the number of journals,

NOTE Confidence: 0.8597226

00:43:26.510 --> 00:43:28.532 the number of people working in

NOTE Confidence: 0.8597226

00:43:28.532 --> 00:43:29.880 science and everything else.

NOTE Confidence: 0.8597226

00:43:29.880 --> 00:43:32.800 So any argument that we're in an age

NOTE Confidence: 0.8597226

00:43:32.800 --> 00:43:35.626 that's not a Golden age where we are.

NOTE Confidence: 0.8597226

00:43:35.630 --> 00:43:37.148 Where the public doesn't support size.

NOTE Confidence: 0.8597226

00:43:37.150 --> 00:43:38.420 I don't buy into that,

NOTE Confidence: 0.8597226

00:43:38.420 --> 00:43:39.440 only we have we

NOTE Confidence: 0.82715887

00:43:39.440 --> 00:43:40.460 have. So you think

NOTE Confidence: 0.82715887

00:43:40.460 --> 00:43:41.978 this is the Golden age thing?

NOTE Confidence: 0.82715887

00:43:41.980 --> 00:43:43.320 Yeah, we're definitely the

NOTE Confidence: 0.82715887

00:43:43.320 --> 00:43:44.995 goal of the things that.

NOTE Confidence: 0.82715887

00:43:45.000 --> 00:43:47.484 I hear about that are going on on this

NOTE Confidence: 0.82715887

00:43:47.484 --> 00:43:49.635 campus and others and other institutes

NOTE Confidence: 0.82715887

00:43:49.635 --> 00:43:51.892 around the country are just astounding

NOTE Confidence: 0.82715887

00:43:51.892 --> 00:43:54.948 because the tools are getting so much better.
NOTE Confidence: 0.82715887

00:43:54.950 --> 00:43:57.344 The Genome Project is the obvious one.
NOTE Confidence: 0.82715887

00:43:57.350 --> 00:44:00.437 You know. It used to take months and months.
NOTE Confidence: 0.82715887

00:44:00.440 --> 00:44:04.750 I mean I remember. The.
NOTE Confidence: 0.82715887

00:44:04.750 --> 00:44:07.270 There aren't very many single.
NOTE Confidence: 0.82715887

00:44:07.270 --> 00:44:10.766 Based as you know, the single gene disease
NOTE Confidence: 0.82715887

00:44:10.766 --> 00:44:14.416 is caused by a defect in one gene or more.
NOTE Confidence: 0.82715887

00:44:14.420 --> 00:44:16.400 An alteration in one gene,
NOTE Confidence: 0.82715887

00:44:16.400 --> 00:44:19.179 but the first one that we discovered
NOTE Confidence: 0.82715887

00:44:19.179 --> 00:44:20.370 was Huntington's disease,
NOTE Confidence: 0.82715887

00:44:20.370 --> 00:44:23.190 which was in 1984.
NOTE Confidence: 0.82715887

00:44:23.190 --> 00:44:25.269 And it took them until 1994 to
NOTE Confidence: 0.82715887

00:44:25.269 --> 00:44:26.883 actually sequence that gene because
NOTE Confidence: 0.82715887

00:44:26.883 --> 00:44:28.528 the technology was so crude.
NOTE Confidence: 0.82715887

00:44:28.530 --> 00:44:30.100 Now. Now if somebody knew
NOTE Confidence: 0.82715887

00:44:30.100 --> 00:44:31.670 the location of that gene,

NOTE Confidence: 0.82715887

00:44:31.670 --> 00:44:33.240 they could hear it, Yale,

NOTE Confidence: 0.82715887

00:44:33.240 --> 00:44:34.810 it would put it outside.

NOTE Confidence: 0.82715887

00:44:34.810 --> 00:44:37.950 They could do it in a much even faster way,

NOTE Confidence: 0.82715887

00:44:37.950 --> 00:44:40.569 but usually what they do is they put it

NOTE Confidence: 0.82715887

00:44:40.569 --> 00:44:42.920 outside their door in a bucket like you

NOTE Confidence: 0.82715887

00:44:42.920 --> 00:44:45.249 see outside of your doctors office for

NOTE Confidence: 0.82715887

00:44:45.249 --> 00:44:47.704 blood and urine samples is picked up.

NOTE Confidence: 0.82715887

00:44:47.704 --> 00:44:50.710 It's taken to a gene sequencing and they get

NOTE Confidence: 0.82715887

00:44:50.784 --> 00:44:53.131 it back in the morning on their computer.

NOTE Confidence: 0.82715887

00:44:53.131 --> 00:44:56.078 And they can compare it to every

NOTE Confidence: 0.82715887

00:44:56.078 --> 00:44:58.374 known gene sequence in every

NOTE Confidence: 0.82715887

00:44:58.374 --> 00:45:00.659 animal creature on Earth an.

NOTE Confidence: 0.82715887

00:45:00.660 --> 00:45:01.240 At best,

NOTE Confidence: 0.7965321

00:45:01.240 --> 00:45:02.392 pretty Golden age. Yeah,

NOTE Confidence: 0.7965321

00:45:02.392 --> 00:45:04.120 that's pretty Golden age and and

NOTE Confidence: 0.7965321

00:45:04.120 --> 00:45:05.560 what's happening now is one
NOTE Confidence: 0.7965321

00:45:05.560 --> 00:45:07.000 of the biggest problems is
NOTE Confidence: 0.7965321

00:45:07.062 --> 00:45:08.718 there's so much data coming in.
NOTE Confidence: 0.7965321

00:45:08.720 --> 00:45:11.024 How do you deal with all the data?
NOTE Confidence: 0.7965321

00:45:11.030 --> 00:45:12.470 There's so much information? Well,
NOTE Confidence: 0.7965321

00:45:12.470 --> 00:45:14.479 what are your thoughts on neuroscience then?
NOTE Confidence: 0.7965321

00:45:14.480 --> 00:45:16.208 Like how do you view that?
NOTE Confidence: 0.7965321

00:45:16.210 --> 00:45:18.226 Our understanding of the brain in relation
NOTE Confidence: 0.7965321

00:45:18.230 --> 00:45:20.526 to these? Otherwise I think we have a
NOTE Confidence: 0.7965321

00:45:20.530 --> 00:45:22.928 long way to go and understanding science.
NOTE Confidence: 0.7965321

00:45:22.928 --> 00:45:27.468 What makes. It is very interesting if you.
NOTE Confidence: 0.7965321

00:45:27.470 --> 00:45:30.578 Think about evolution and Richard Dawkins
NOTE Confidence: 0.7965321

00:45:30.578 --> 00:45:34.689 who's one of my favorite writers of
NOTE Confidence: 0.7965321

00:45:34.689 --> 00:45:37.929 all these brilliant actually written.
NOTE Confidence: 0.7965321

00:45:37.930 --> 00:45:40.946 He but. And he he gets pounced on
NOTE Confidence: 0.7965321

00:45:40.946 --> 00:45:44.369 all the time by the religious right,

NOTE Confidence: 0.7965321

00:45:44.370 --> 00:45:47.090 because of he thinks that religion is a

NOTE Confidence: 0.7965321

00:45:47.090 --> 00:45:49.748 meme term that he invented, but it's.

NOTE Confidence: 0.7965321

00:45:49.748 --> 00:45:52.620 But it's a meme is a conscious thing.

NOTE Confidence: 0.7965321

00:45:52.620 --> 00:45:55.084 It's not a gene and he and he

NOTE Confidence: 0.7965321

00:45:55.084 --> 00:45:57.333 constantly says that we've developed a

NOTE Confidence: 0.7965321

00:45:57.333 --> 00:46:00.160 consciousness we because we have a brain.

NOTE Confidence: 0.7965321

00:46:00.160 --> 00:46:01.592 It came from evolution.

NOTE Confidence: 0.7965321

00:46:01.592 --> 00:46:03.382 But we don't understand it.

NOTE Confidence: 0.7965321

00:46:03.390 --> 00:46:05.185 We don't have the mechanism

NOTE Confidence: 0.7965321

00:46:05.185 --> 00:46:06.980 to understand our own brains.

NOTE Confidence: 0.7965321

00:46:06.980 --> 00:46:09.412 And as an example of why everything is

NOTE Confidence: 0.7965321

00:46:09.412 --> 00:46:12.009 not driven by Darwinian natural selection,

NOTE Confidence: 0.7965321

00:46:12.010 --> 00:46:14.686 he says, well, we wouldn't have.

NOTE Confidence: 0.7965321

00:46:14.690 --> 00:46:16.110 Option one practice contraception

NOTE Confidence: 0.7965321

00:46:16.110 --> 00:46:18.559 if we wanted to just increase our

NOTE Confidence: 0.7965321

00:46:18.559 --> 00:46:19.829 our genes in the world.
NOTE Confidence: 0.7965321

00:46:19.830 --> 00:46:21.750 Well so so I think his
NOTE Confidence: 0.82474583

00:46:21.750 --> 00:46:23.010 arguments pretty sound though.
NOTE Confidence: 0.82474583

00:46:23.010 --> 00:46:25.603 So like why would we suppose that our
NOTE Confidence: 0.82474583

00:46:25.603 --> 00:46:27.529 brains evolved to understand the brain?
NOTE Confidence: 0.82474583

00:46:27.530 --> 00:46:29.776 No, I don't think we have the
NOTE Confidence: 0.82474583

00:46:29.776 --> 00:46:31.700 capacity to do that. So then.
NOTE Confidence: 0.82474583

00:46:31.700 --> 00:46:34.068 So then what direction like in terms of
NOTE Confidence: 0.82474583

00:46:34.068 --> 00:46:36.200 the Golden age of neuroscience then.
NOTE Confidence: 0.82474583

00:46:36.200 --> 00:46:38.468 So so there have been many stories
NOTE Confidence: 0.82474583

00:46:38.468 --> 00:46:40.688 purporting that this decade of the brain,
NOTE Confidence: 0.82474583

00:46:40.690 --> 00:46:42.616 for example, right like you know,
NOTE Confidence: 0.82474583

00:46:42.620 --> 00:46:45.830 we're going to devote a lot of money to this,
NOTE Confidence: 0.82474583

00:46:45.830 --> 00:46:47.490 like we did with the.
NOTE Confidence: 0.82474583

00:46:47.490 --> 00:46:49.807 Human genome and in 10 years will
NOTE Confidence: 0.82474583

00:46:49.807 --> 00:46:51.790 shake her hand and what happened?

NOTE Confidence: 0.82474583
00:46:51.790 --> 00:46:53.114 No, not much right.
NOTE Confidence: 0.82474583
00:46:53.114 --> 00:46:54.438 There was a decade
NOTE Confidence: 0.82788557
00:46:54.440 --> 00:46:56.848 of the brain. Sounds like a good idea
NOTE Confidence: 0.82788557
00:46:56.848 --> 00:46:59.740 and I'm sure they pay for decent science.
NOTE Confidence: 0.82788557
00:46:59.740 --> 00:47:01.720 I'm not up on the literature
NOTE Confidence: 0.82788557
00:47:01.720 --> 00:47:04.128 on that. I don't know what to tell
NOTE Confidence: 0.82788557
00:47:04.128 --> 00:47:06.687 ya to say that that we learned.
NOTE Confidence: 0.82788557
00:47:06.690 --> 00:47:08.670 You know nothing is obviously false.
NOTE Confidence: 0.82788557
00:47:08.670 --> 00:47:11.318 I mean we know wealth of information about
NOTE Confidence: 0.82788557
00:47:11.318 --> 00:47:13.304 the brain, like how neurons function,
NOTE Confidence: 0.82788557
00:47:13.304 --> 00:47:15.704 how they organized you, know sub circuits
NOTE Confidence: 0.82788557
00:47:15.704 --> 00:47:17.852 and circuits and networks and systems.
NOTE Confidence: 0.82788557
00:47:17.860 --> 00:47:20.932 Throughout the brain, but are we able to
NOTE Confidence: 0.82788557
00:47:20.932 --> 00:47:23.818 bring that to the level of healthcare?
NOTE Confidence: 0.82788557
00:47:23.820 --> 00:47:25.408 Not quite yet right?
NOTE Confidence: 0.82788557

00:47:25.408 --> 00:47:27.790 And so that's the question then,
NOTE Confidence: 0.82788557

00:47:27.790 --> 00:47:30.958 is like something that I've been musing over.
NOTE Confidence: 0.82788557

00:47:30.960 --> 00:47:32.950 Is all of these movements.
NOTE Confidence: 0.82788557

00:47:32.950 --> 00:47:36.568 I hope that I don't mean that in a
NOTE Confidence: 0.82788557

00:47:36.568 --> 00:47:39.296 derogatory way to say like the AIDS.
NOTE Confidence: 0.82788557

00:47:39.300 --> 00:47:42.390 Advocates were like a movement, but I don't.
NOTE Confidence: 0.82788557

00:47:42.390 --> 00:47:44.610 I don't know another word to
NOTE Confidence: 0.82788557

00:47:44.610 --> 00:47:46.837 describe that like that movement.
NOTE Confidence: 0.82788557

00:47:46.840 --> 00:47:48.145 The cancer movement,
NOTE Confidence: 0.82788557

00:47:48.145 --> 00:47:50.320 specifically the breast cancer movement.
NOTE Confidence: 0.82788557

00:47:50.320 --> 00:47:53.330 These people were able to create a
NOTE Confidence: 0.82788557

00:47:53.330 --> 00:47:56.249 lot of enthusiasm which then trickled
NOTE Confidence: 0.82788557

00:47:56.249 --> 00:47:58.301 into the scientific enterprise
NOTE Confidence: 0.82788557

00:47:58.301 --> 00:48:00.839 in the form of funding,
NOTE Confidence: 0.82788557

00:48:00.840 --> 00:48:03.230 which then allows treatments to
NOTE Confidence: 0.82788557

00:48:03.230 --> 00:48:05.620 eventually be brought to market.

NOTE Confidence: 0.82788557

00:48:05.620 --> 00:48:07.528 Which one is lucky?

NOTE Confidence: 0.82788557

00:48:07.530 --> 00:48:08.482 I mean,

NOTE Confidence: 0.82788557

00:48:08.482 --> 00:48:09.920 there's feel like,

NOTE Confidence: 0.82359964

00:48:09.920 --> 00:48:12.782 yeah, but it also allows the

NOTE Confidence: 0.82359964

00:48:12.782 --> 00:48:13.736 scientific understanding.

NOTE Confidence: 0.82359964

00:48:13.740 --> 00:48:17.520 Sometimes that doesn't wait to treatments.

NOTE Confidence: 0.82359964

00:48:17.520 --> 00:48:19.266 And it's not a bad thing.

NOTE Confidence: 0.82359964

00:48:19.270 --> 00:48:21.734 I mean, and there still is support

NOTE Confidence: 0.82359964

00:48:21.734 --> 00:48:23.340 despite everything else for the.

NOTE Confidence: 0.82359964

00:48:23.340 --> 00:48:27.430 Like the wonderful things that say,

NOTE Confidence: 0.82359964

00:48:27.430 --> 00:48:30.070 Carl Zimmer writes about about the

NOTE Confidence: 0.82359964

00:48:30.070 --> 00:48:32.970 interaction of a lichen and fungus and

NOTE Confidence: 0.82359964

00:48:32.970 --> 00:48:36.380 sure or the which is terrifying. By the

NOTE Confidence: 0.7091239

00:48:36.380 --> 00:48:40.010 way they are. Or or or

NOTE Confidence: 0.8040609

00:48:40.010 --> 00:48:42.179 does this interest that we all have in in

NOTE Confidence: 0.8040609

00:48:42.179 --> 00:48:44.509 the origin of human population migrations?

NOTE Confidence: 0.8040609

00:48:44.510 --> 00:48:46.547 That's not going to. That probably is

NOTE Confidence: 0.8040609

00:48:46.547 --> 00:48:48.625 not going to tell us anything that's

NOTE Confidence: 0.8040609

00:48:48.625 --> 00:48:50.810 going to be useful in the clinic,

NOTE Confidence: 0.8040609

00:48:50.810 --> 00:48:53.386 but I think it should be supported not

NOTE Confidence: 0.8040609

00:48:53.386 --> 00:48:55.606 just because I like to read about it,

NOTE Confidence: 0.8040609

00:48:55.610 --> 00:48:57.110 but I think, you know,

NOTE Confidence: 0.8040609

00:48:57.110 --> 00:48:58.610 tells us more about who

NOTE Confidence: 0.8040609

00:48:58.610 --> 00:49:00.110 we are and it's absolutely

NOTE Confidence: 0.8040609

00:49:00.110 --> 00:49:01.310 fascinating. So any knowledge

NOTE Confidence: 0.8040609

00:49:01.310 --> 00:49:03.075 is good knowledge, then yeah, well,

NOTE Confidence: 0.8040609

00:49:03.075 --> 00:49:04.930 any yeah? Any knowledge that is not

NOTE Confidence: 0.8040609

00:49:04.930 --> 00:49:07.009 used for destructive purposes as good

NOTE Confidence: 0.8040609

00:49:07.010 --> 00:49:08.210 knowledge? Napalm? It's not

NOTE Confidence: 0.8040609

00:49:08.210 --> 00:49:09.710 good. No, I don't think.

NOTE Confidence: 0.83639115

00:49:09.820 --> 00:49:11.788 I don't think Napalm is good

NOTE Confidence: 0.83639115

00:49:11.788 --> 00:49:12.772 under any circumstances,

NOTE Confidence: 0.83639115

00:49:12.780 --> 00:49:16.070 and it goes for a lot of other other things.

NOTE Confidence: 0.83639115

00:49:16.070 --> 00:49:18.710 But if you're thinking about.

NOTE Confidence: 0.83639115

00:49:18.710 --> 00:49:21.599 The scientific enterprise.

NOTE Confidence: 0.83639115

00:49:21.600 --> 00:49:24.488 Yeah, I get back to these Pew surveys.

NOTE Confidence: 0.83639115

00:49:24.490 --> 00:49:27.378 Science has never been held in higher regard.

NOTE Confidence: 0.83639115

00:49:27.380 --> 00:49:30.481 Let me people there are these awful

NOTE Confidence: 0.83639115

00:49:30.481 --> 00:49:33.120 things that are going on like.

NOTE Confidence: 0.83639115

00:49:33.120 --> 00:49:34.544 Cuts in environmental regulations

NOTE Confidence: 0.83639115

00:49:34.544 --> 00:49:36.680 that are based on pseudoscience that,

NOTE Confidence: 0.83639115

00:49:36.680 --> 00:49:39.875 but a lot of that is a political decision.

NOTE Confidence: 0.83639115

00:49:39.880 --> 00:49:42.352 Are we willing to be like India and

NOTE Confidence: 0.83639115

00:49:42.352 --> 00:49:44.899 China and breed really horrible air so

NOTE Confidence: 0.83639115

00:49:44.899 --> 00:49:47.720 that some people can make more profits?

NOTE Confidence: 0.83639115

00:49:47.720 --> 00:49:50.369 Or are we?

NOTE Confidence: 0.83639115

00:49:50.370 --> 00:49:52.908 Those are political ideas and the
NOTE Confidence: 0.83639115

00:49:52.908 --> 00:49:55.503 other the other thing that keeps
NOTE Confidence: 0.83639115

00:49:55.503 --> 00:49:58.373 coming that I keep thinking about is.
NOTE Confidence: 0.83639115

00:49:58.380 --> 00:50:00.780 This idea of the.
NOTE Confidence: 0.83639115

00:50:00.780 --> 00:50:04.820 Global warming and climate change are so.
NOTE Confidence: 0.83639115

00:50:04.820 --> 00:50:07.214 Threatening that are we wasting our time
NOTE Confidence: 0.83639115

00:50:07.214 --> 00:50:09.069 thinking about almost anything else?
NOTE Confidence: 0.83639115

00:50:09.070 --> 00:50:11.894 And there are people that make that argument.
NOTE Confidence: 0.83639115

00:50:11.900 --> 00:50:14.378 Jonathan Franzen had a very good piece.
NOTE Confidence: 0.83639115

00:50:14.380 --> 00:50:16.704 And then in The New Yorker a
NOTE Confidence: 0.83639115

00:50:16.704 --> 00:50:18.630 few months ago about that,
NOTE Confidence: 0.83639115

00:50:18.630 --> 00:50:21.160 that it's so hopeless that.
NOTE Confidence: 0.83639115

00:50:21.160 --> 00:50:23.712 So we we we go on as if our children our
NOTE Confidence: 0.83639115

00:50:23.712 --> 00:50:26.246 grandchildren are going to have decent lives.
NOTE Confidence: 0.83639115

00:50:26.250 --> 00:50:27.470 Whenever I was talking about
NOTE Confidence: 0.83639115

00:50:27.470 --> 00:50:28.690 the financial aspects of my

NOTE Confidence: 0.83639115

00:50:28.737 --> 00:50:30.217 generation versus your generation,

NOTE Confidence: 0.83639115

00:50:30.220 --> 00:50:32.026 but think about what it could be

NOTE Confidence: 0.83639115

00:50:32.026 --> 00:50:34.180 like for our kids and our grandkids.

NOTE Confidence: 0.83639115

00:50:34.180 --> 00:50:36.203 If if the world really goes to

NOTE Confidence: 0.83639115

00:50:36.203 --> 00:50:38.677 hell in the way it seems to be in

NOTE Confidence: 0.83639115

00:50:38.677 --> 00:50:41.346 a lot of people think it will be

NOTE Confidence: 0.83639115

00:50:41.346 --> 00:50:42.528 because of reinforcing.

NOTE Confidence: 0.83639115

00:50:42.530 --> 00:50:45.232 Feedbacks that are just getting worse and

NOTE Confidence: 0.83639115

00:50:45.232 --> 00:50:47.712 worse and nobody is doing anything about

NOTE Confidence: 0.83639115

00:50:47.712 --> 00:50:50.590 it at any kind of scale that it could.

NOTE Confidence: 0.83639115

00:50:50.590 --> 00:50:52.900 Matter and so maybe you know you

NOTE Confidence: 0.83639115

00:50:52.900 --> 00:50:55.434 thinking about the brain or me talking

NOTE Confidence: 0.83639115

00:50:55.434 --> 00:50:57.648 about breast cancer activism for HIV,

NOTE Confidence: 0.83639115

00:50:57.650 --> 00:50:59.769 AIDS, or even trying to illuminate.

NOTE Confidence: 0.83639115

00:50:59.769 --> 00:51:00.828 And it's horrible.

NOTE Confidence: 0.83639115

00:51:00.830 --> 00:51:02.948 Probably you know, tuberculosis or HIV,
NOTE Confidence: 0.83639115

00:51:02.950 --> 00:51:05.062 aids and all these other terrible
NOTE Confidence: 0.83639115

00:51:05.062 --> 00:51:06.118 global health problems.
NOTE Confidence: 0.83639115

00:51:06.120 --> 00:51:08.256 But all that could be meaningless
NOTE Confidence: 0.83639115

00:51:08.256 --> 00:51:11.180 in a big hurry if if climate change
NOTE Confidence: 0.83639115

00:51:11.180 --> 00:51:13.721 gets so bad that there's no food
NOTE Confidence: 0.83639115

00:51:13.721 --> 00:51:16.353 and there's a lack of water and all
NOTE Confidence: 0.8359463

00:51:16.360 --> 00:51:20.110 that, well, so so this is again an area that.
NOTE Confidence: 0.8359463

00:51:20.110 --> 00:51:22.560 You know you see the science, right?
NOTE Confidence: 0.8359463

00:51:22.560 --> 00:51:25.010 The science is fairly clear and robust.
NOTE Confidence: 0.8359463

00:51:25.010 --> 00:51:27.014 I mean, there are these models
NOTE Confidence: 0.8359463

00:51:27.014 --> 00:51:29.209 that have been known for decades,
NOTE Confidence: 0.8359463

00:51:29.210 --> 00:51:30.960 and there are advocacy groups
NOTE Confidence: 0.8359463

00:51:30.960 --> 00:51:32.360 like there's a movement.
NOTE Confidence: 0.8359463

00:51:32.360 --> 00:51:34.110 You know that it's getting
NOTE Confidence: 0.8359463

00:51:34.110 --> 00:51:35.510 more popular with young

NOTE Confidence: 0.86674

00:51:35.510 --> 00:51:38.310 people, which is good. Which is good. But

NOTE Confidence: 0.86674

00:51:38.310 --> 00:51:40.242 so, like when, how do you

NOTE Confidence: 0.86674

00:51:40.242 --> 00:51:42.160 view a critical mass forming?

NOTE Confidence: 0.86674

00:51:42.160 --> 00:51:44.960 So at what point? I don't know. This

NOTE Confidence: 0.86674

00:51:44.960 --> 00:51:47.760 is not something that I've been involved in.

NOTE Confidence: 0.86674

00:51:47.760 --> 00:51:51.078 Sometimes I feel like I should be.

NOTE Confidence: 0.86674

00:51:51.080 --> 00:51:53.236 You know involved in it and you

NOTE Confidence: 0.86674

00:51:53.236 --> 00:51:55.386 see things like Jane Fonda getting

NOTE Confidence: 0.86674

00:51:55.386 --> 00:51:57.316 arrested every Friday along with

NOTE Confidence: 0.86674

00:51:57.316 --> 00:51:59.540 a bunch of other celebrities.

NOTE Confidence: 0.86674

00:51:59.540 --> 00:52:02.116 Now on the steps of the Capitol.

NOTE Confidence: 0.86674

00:52:02.120 --> 00:52:04.696 Maybe that will call attention to it,

NOTE Confidence: 0.86674

00:52:04.700 --> 00:52:07.059 but it's very hard to wrap your

NOTE Confidence: 0.86674

00:52:07.059 --> 00:52:09.758 head around how bad it is an

NOTE Confidence: 0.86674

00:52:09.758 --> 00:52:11.768 particularly because you've got just

NOTE Confidence: 0.86674

00:52:11.768 --> 00:52:14.257 become a religion to be against it.
NOTE Confidence: 0.86674

00:52:14.260 --> 00:52:15.732 For certain political parties.
NOTE Confidence: 0.86674

00:52:15.732 --> 00:52:17.572 So people are much more.
NOTE Confidence: 0.82804006

00:52:19.680 --> 00:52:21.410 Aligned to disbelieve it even,
NOTE Confidence: 0.82804006

00:52:21.410 --> 00:52:23.486 even though the evidence is stronger.
NOTE Confidence: 0.82804006

00:52:23.490 --> 00:52:25.597 And also it's happening over a time
NOTE Confidence: 0.82804006

00:52:25.597 --> 00:52:27.978 frame that we don't quite understand.
NOTE Confidence: 0.82804006

00:52:27.980 --> 00:52:30.008 Have a new treatment for cystic
NOTE Confidence: 0.82804006

00:52:30.008 --> 00:52:31.790 fibrosis or cancer comes along.
NOTE Confidence: 0.82804006

00:52:31.790 --> 00:52:33.800 Yeah yesterday it wasn't here today
NOTE Confidence: 0.82804006

00:52:33.800 --> 00:52:36.289 is here and we suddenly see it.
NOTE Confidence: 0.82804006

00:52:36.290 --> 00:52:37.328 This is given
NOTE Confidence: 0.82804006

00:52:37.330 --> 00:52:40.440 to patients better and in some way. But this
NOTE Confidence: 0.782969376

00:52:40.440 --> 00:52:44.000 doesn't work that way. Anne.
NOTE Confidence: 0.782969376

00:52:44.000 --> 00:52:46.250 It could be just awful an I I don't
NOTE Confidence: 0.782969376

00:52:46.250 --> 00:52:48.481 know if there are people here an

NOTE Confidence: 0.782969376

00:52:48.481 --> 00:52:50.558 elsewhere here yell and elsewhere who

NOTE Confidence: 0.782969376

00:52:50.558 --> 00:52:53.134 work at the idea of communicating this.

NOTE Confidence: 0.782969376

00:52:53.140 --> 00:52:55.226 You know, how do you tell people

NOTE Confidence: 0.782969376

00:52:55.226 --> 00:52:57.163 this is such a serious problem

NOTE Confidence: 0.782969376

00:52:57.163 --> 00:52:59.431 that we have to worry about it?

NOTE Confidence: 0.782969376

00:52:59.440 --> 00:53:01.288 I remember even a few one of

NOTE Confidence: 0.782969376

00:53:01.288 --> 00:53:03.259 the few times we were talking

NOTE Confidence: 0.782969376

00:53:03.259 --> 00:53:05.109 bout good reactions to stories.

NOTE Confidence: 0.782969376

00:53:05.110 --> 00:53:07.126 I did it with the one time

NOTE Confidence: 0.782969376

00:53:07.126 --> 00:53:09.518 I got a lot of hate Mail.

NOTE Confidence: 0.782969376

00:53:09.520 --> 00:53:12.040 And in those days it was just Mail.

NOTE Confidence: 0.782969376

00:53:12.040 --> 00:53:13.924 It was an email or social

NOTE Confidence: 0.782969376

00:53:13.924 --> 00:53:16.308 media when I did a story about.

NOTE Confidence: 0.782969376

00:53:16.310 --> 00:53:16.912 Global warming,

NOTE Confidence: 0.782969376

00:53:16.912 --> 00:53:18.718 one of the first stories when

NOTE Confidence: 0.782969376

00:53:18.718 --> 00:53:20.748 I was starting to become more
NOTE Confidence: 0.782969376

00:53:20.748 --> 00:53:22.750 public issue what year is that?
NOTE Confidence: 0.782969376

00:53:22.750 --> 00:53:24.683 Oh, is in the 80s eighties.
NOTE Confidence: 0.782969376

00:53:24.683 --> 00:53:26.618 Brian Johansson came out and but
NOTE Confidence: 0.782969376

00:53:26.618 --> 00:53:28.550 it didn't phase and people can't.
NOTE Confidence: 0.782969376

00:53:28.550 --> 00:53:29.387 You know, then,
NOTE Confidence: 0.782969376

00:53:29.387 --> 00:53:31.340 when it's really hot on the East
NOTE Confidence: 0.782969376

00:53:31.401 --> 00:53:33.376 Coast and everybody in Washington,
NOTE Confidence: 0.782969376

00:53:33.380 --> 00:53:34.985 New York's miserable and or
NOTE Confidence: 0.782969376

00:53:34.985 --> 00:53:36.269 there's a power outage.
NOTE Confidence: 0.782969376

00:53:36.270 --> 00:53:37.880 Or there's a big hurricane.
NOTE Confidence: 0.782969376

00:53:37.880 --> 00:53:39.490 Now people are starting to
NOTE Confidence: 0.782969376

00:53:39.490 --> 00:53:40.778 accept the severe weather.
NOTE Confidence: 0.782969376

00:53:40.780 --> 00:53:43.332 Is is part of global climate change and
NOTE Confidence: 0.782969376

00:53:43.332 --> 00:53:45.607 that wasn't accepted for a long time.
NOTE Confidence: 0.7970482

00:53:45.610 --> 00:53:47.560 Well, so so this is.

NOTE Confidence: 0.7970482

00:53:47.560 --> 00:53:50.146 One of my editors at Scientific

NOTE Confidence: 0.7970482

00:53:50.146 --> 00:53:51.444 American, Mike Lemonick,

NOTE Confidence: 0.7970482

00:53:51.444 --> 00:53:54.036 who had interviewed for this podcast.

NOTE Confidence: 0.7970482

00:53:54.040 --> 00:53:56.146 He and I had a discussion

NOTE Confidence: 0.7970482

00:53:56.146 --> 00:53:58.208 about the impact of science

NOTE Confidence: 0.7970482

00:53:58.208 --> 00:54:00.516 journalism on science policy,

NOTE Confidence: 0.7970482

00:54:00.520 --> 00:54:03.145 and so I'm curious if you feel

NOTE Confidence: 0.7970482

00:54:03.145 --> 00:54:05.696 like your journalism in AIDS and

NOTE Confidence: 0.7970482

00:54:05.696 --> 00:54:07.941 cancer treatments and you covered

NOTE Confidence: 0.7970482

00:54:07.941 --> 00:54:10.459 Alzheimer's and Human Genome project,

NOTE Confidence: 0.7970482

00:54:10.460 --> 00:54:13.356 do you feel like that has had an

NOTE Confidence: 0.7970482

00:54:13.356 --> 00:54:16.070 affect in sculpting policy? I

NOTE Confidence: 0.840795

00:54:16.070 --> 00:54:17.850 think not mine necessarily,

NOTE Confidence: 0.840795

00:54:17.850 --> 00:54:19.630 but overall it does.

NOTE Confidence: 0.840795

00:54:19.630 --> 00:54:21.435 I think that awareness does

NOTE Confidence: 0.840795

00:54:21.435 --> 00:54:22.879 help people appreciate where
NOTE Confidence: 0.840795

00:54:22.879 --> 00:54:24.590 their tax dollars are going,
NOTE Confidence: 0.840795

00:54:24.590 --> 00:54:28.046 but there and that's been part of perhaps
NOTE Confidence: 0.840795

00:54:28.046 --> 00:54:31.318 the reason that there was not a lot of.
NOTE Confidence: 0.840795

00:54:31.320 --> 00:54:33.270 Objection to it science is
NOTE Confidence: 0.840795

00:54:33.270 --> 00:54:34.830 always done pretty well.
NOTE Confidence: 0.840795

00:54:34.830 --> 00:54:37.364 I'd get has its ups and downs
NOTE Confidence: 0.840795

00:54:37.364 --> 00:54:39.361 and you mentioned before the
NOTE Confidence: 0.840795

00:54:39.361 --> 00:54:41.845 when the NIH doubled its budget,
NOTE Confidence: 0.840795

00:54:41.850 --> 00:54:43.716 which was a huge mistake that
NOTE Confidence: 0.840795

00:54:43.716 --> 00:54:46.166 was made during the Clinton Bill
NOTE Confidence: 0.840795

00:54:46.166 --> 00:54:47.700 Clinton administration, the.
NOTE Confidence: 0.78034496

00:54:49.770 --> 00:54:51.246 They doubled the budget,
NOTE Confidence: 0.78034496

00:54:51.246 --> 00:54:53.460 but then they didn't fall through,
NOTE Confidence: 0.78034496

00:54:53.460 --> 00:54:55.677 so there's all these graduate students
NOTE Confidence: 0.78034496

00:54:55.677 --> 00:54:57.890 and postdocs who suddenly given fell

NOTE Confidence: 0.78034496

00:54:57.890 --> 00:55:00.026 off a Cliff like doubling the

NOTE Confidence: 0.78034496

00:55:00.026 --> 00:55:01.950 enrollment in medical school without

NOTE Confidence: 0.78034496

00:55:01.950 --> 00:55:03.422 doubling residency right exactly.

NOTE Confidence: 0.78034496

00:55:03.422 --> 00:55:06.008 Yeah, it was a bad idea, yeah?

NOTE Confidence: 0.78034496

00:55:06.008 --> 00:55:08.952 But then again, there's a big tendency to.

NOTE Confidence: 0.78034496

00:55:08.960 --> 00:55:11.156 If somebody puts money on the

NOTE Confidence: 0.78034496

00:55:11.156 --> 00:55:13.790 table to take it and not say

NOTE Confidence: 0.78034496

00:55:13.790 --> 00:55:15.962 we're not going to take that.

NOTE Confidence: 0.78034496

00:55:15.970 --> 00:55:18.178 But but those stories are satisfying.

NOTE Confidence: 0.78034496

00:55:18.180 --> 00:55:19.708 I enjoy reading about.

NOTE Confidence: 0.78034496

00:55:19.708 --> 00:55:22.694 Science or and I enjoy just like I

NOTE Confidence: 0.78034496

00:55:22.694 --> 00:55:25.142 enjoy a good play or a movie that

NOTE Confidence: 0.78034496

00:55:25.218 --> 00:55:27.588 has nothing to do with science.

NOTE Confidence: 0.78034496

00:55:27.590 --> 00:55:29.498 It's part of the human experience

NOTE Confidence: 0.78034496

00:55:29.498 --> 00:55:32.394 and I think that it makes people feel

NOTE Confidence: 0.78034496

00:55:32.394 --> 00:55:34.339 satisfied to get good information.
NOTE Confidence: 0.78034496

00:55:34.340 --> 00:55:35.760 Well, you certainly made
NOTE Confidence: 0.781417

00:55:35.760 --> 00:55:37.890 thousands of millions of people satisfied.
NOTE Confidence: 0.781417

00:55:37.890 --> 00:55:40.648 Flickering through the years and I guess
NOTE Confidence: 0.781417

00:55:40.648 --> 00:55:43.206 we're actually running a little low on time.
NOTE Confidence: 0.781417

00:55:43.210 --> 00:55:45.534 I don't want you to be late
NOTE Confidence: 0.781417

00:55:45.534 --> 00:55:48.910 for your new class, OK?
NOTE Confidence: 0.781417

00:55:48.910 --> 00:55:51.459 But we are OK. We are we OK?
NOTE Confidence: 0.781417

00:55:51.459 --> 00:55:54.330 Yeah, I think we have 5 minutes 5 minutes.
NOTE Confidence: 0.781417

00:55:54.330 --> 00:55:56.890 OK, I use magic that out about time,
NOTE Confidence: 0.781417

00:55:56.890 --> 00:55:59.095 but you know, just in the last
NOTE Confidence: 0.781417

00:55:59.095 --> 00:56:01.028 five minutes here I'm like what?
NOTE Confidence: 0.781417

00:56:01.030 --> 00:56:02.545 Where do you see science
NOTE Confidence: 0.781417

00:56:02.545 --> 00:56:04.540 journalism an going in the future?
NOTE Confidence: 0.781417

00:56:04.540 --> 00:56:07.100 I because I have this sense that science
NOTE Confidence: 0.781417

00:56:07.100 --> 00:56:09.219 is becoming more and more complex and

NOTE Confidence: 0.781417

00:56:09.219 --> 00:56:11.560 to be able to report about science,

NOTE Confidence: 0.781417

00:56:11.560 --> 00:56:13.474 you're going to have to become

NOTE Confidence: 0.781417

00:56:13.474 --> 00:56:14.750 more and more sophisticated.

NOTE Confidence: 0.781417

00:56:14.750 --> 00:56:16.976 Like for example, you you had a,

NOTE Confidence: 0.781417

00:56:16.980 --> 00:56:20.250 you know, a whole leg and not just a shoe.

NOTE Confidence: 0.781417

00:56:20.250 --> 00:56:22.483 Because you had a lot of scientific

NOTE Confidence: 0.781417

00:56:22.483 --> 00:56:25.168 training and so that gave you a springboard

NOTE Confidence: 0.781417

00:56:25.168 --> 00:56:27.580 into the world of science journalism.

NOTE Confidence: 0.781417

00:56:27.580 --> 00:56:30.084 So how do you feel the next generation

NOTE Confidence: 0.781417

00:56:30.084 --> 00:56:32.118 of science journalists are going

NOTE Confidence: 0.8710991

00:56:32.120 --> 00:56:34.208 to feel very optimistic about it?

NOTE Confidence: 0.8710991

00:56:34.210 --> 00:56:36.930 Because like the stuff that you do in

NOTE Confidence: 0.8710991

00:56:36.930 --> 00:56:39.078 Scientific American and all the good

NOTE Confidence: 0.8710991

00:56:39.078 --> 00:56:41.190 stuff that's in National Geographic sites,

NOTE Confidence: 0.8710991

00:56:41.190 --> 00:56:43.302 and there, there is an enormous

NOTE Confidence: 0.8710991

00:56:43.302 --> 00:56:45.379 amount of good information out there.

NOTE Confidence: 0.8710991

00:56:45.380 --> 00:56:47.125 And there are certain percentage

NOTE Confidence: 0.8710991

00:56:47.125 --> 00:56:48.870 of people who seek it.

NOTE Confidence: 0.8710991

00:56:48.870 --> 00:56:51.246 The big problems are that a lot of

NOTE Confidence: 0.8710991

00:56:51.246 --> 00:56:53.054 stuff gets trivialized, particularly.

NOTE Confidence: 0.8710991

00:56:53.054 --> 00:56:54.430 Nutritional Epidemiology, you know,

NOTE Confidence: 0.8710991

00:56:54.430 --> 00:56:56.558 I can promise you that they'll in

NOTE Confidence: 0.8710991

00:56:56.558 --> 00:56:58.226 February there will be stories

NOTE Confidence: 0.8710991

00:56:58.226 --> 00:56:59.971 that just before Valentine's Day

NOTE Confidence: 0.8710991

00:56:59.971 --> 00:57:01.828 that chocolate is good for you.

NOTE Confidence: 0.73138845

00:57:03.250 --> 00:57:05.326 Yeah this and wanted by Hershey.

NOTE Confidence: 0.73138845

00:57:05.330 --> 00:57:07.400 Sponsored by you know somebody will

NOTE Confidence: 0.73138845

00:57:07.400 --> 00:57:09.929 do is to study of 17 people and find

NOTE Confidence: 0.73138845

00:57:09.929 --> 00:57:12.250 out that there's an antioxidant.

NOTE Confidence: 0.73138845

00:57:12.250 --> 00:57:15.434 Chocolate of course you have to eat so

NOTE Confidence: 0.73138845

00:57:15.434 --> 00:57:19.177 much of the chocolate you gain 10 pounds.

NOTE Confidence: 0.73138845

00:57:19.180 --> 00:57:23.317 But the and those things are constant.

NOTE Confidence: 0.7386996

00:57:27.300 --> 00:57:28.584 Uh, with evergreens,

NOTE Confidence: 0.7386996

00:57:28.584 --> 00:57:30.724 they think they're constantly showing

NOTE Confidence: 0.7386996

00:57:30.724 --> 00:57:33.358 up on the morning talk shows like

NOTE Confidence: 0.7386996

00:57:33.358 --> 00:57:35.527 the Today Show and Good Morning

NOTE Confidence: 0.7386996

00:57:35.527 --> 00:57:37.879 America and the CBS Morning show.

NOTE Confidence: 0.7386996

00:57:37.880 --> 00:57:40.238 The people are all whole another.

NOTE Confidence: 0.7386996

00:57:40.240 --> 00:57:44.929 John Oliver did a great spot on this on.

NOTE Confidence: 0.7386996

00:57:44.930 --> 00:57:48.136 John Oliver did a very good spot

NOTE Confidence: 0.7386996

00:57:48.136 --> 00:57:51.000 about science, journalism and.

NOTE Confidence: 0.7386996

00:57:51.000 --> 00:57:53.114 It in the whole lot of stuff

NOTE Confidence: 0.7386996

00:57:53.114 --> 00:57:55.522 gets blown on it, blown up.

NOTE Confidence: 0.7386996

00:57:55.522 --> 00:57:57.340 Out of proportion.

NOTE Confidence: 0.7386996

00:57:57.340 --> 00:58:00.980 And it's not just.

NOTE Confidence: 0.7386996

00:58:00.980 --> 00:58:02.930 These small studies get a lot

NOTE Confidence: 0.7386996

00:58:02.930 --> 00:58:04.553 of attention because they come
NOTE Confidence: 0.7386996

00:58:04.553 --> 00:58:06.113 to a result that people want
NOTE Confidence: 0.7386996

00:58:06.113 --> 00:58:08.080 to hear or it scares people or
NOTE Confidence: 0.78326505

00:58:08.080 --> 00:58:09.264 whatever it takes to.
NOTE Confidence: 0.78326505

00:58:09.264 --> 00:58:10.744 I love the wine study.
NOTE Confidence: 0.78326505

00:58:10.750 --> 00:58:12.520 Yeah, one drink two to three
NOTE Confidence: 0.78326505

00:58:12.520 --> 00:58:14.000 glasses of wine. Your heart.
NOTE Confidence: 0.78326505

00:58:14.000 --> 00:58:15.662 Well yeah, right and under the
NOTE Confidence: 0.78326505

00:58:15.662 --> 00:58:17.260 guise Sinclair it at Harvard,
NOTE Confidence: 0.78326505

00:58:17.260 --> 00:58:18.910 David Sinclair has been fortunate
NOTE Confidence: 0.78326505

00:58:18.910 --> 00:58:20.560 company to try supposedly distills
NOTE Confidence: 0.78326505

00:58:20.616 --> 00:58:22.485 the antioxidant from red wine into a
NOTE Confidence: 0.78326505

00:58:22.485 --> 00:58:24.069 pill that prevents you from aging.
NOTE Confidence: 0.78326505

00:58:24.070 --> 00:58:26.725 So why would you ever want to take the
NOTE Confidence: 0.78326505

00:58:26.730 --> 00:58:29.098 pill? And you can just drink the wine?
NOTE Confidence: 0.78326505

00:58:29.100 --> 00:58:31.399 Yeah, exactly exactly. You have to drink.

NOTE Confidence: 0.78326505

00:58:31.400 --> 00:58:33.424 Case of it together, but alright here.

NOTE Confidence: 0.78326505

00:58:33.424 --> 00:58:36.620 Let's say in an afternoon. But

NOTE Confidence: 0.8359416

00:58:36.620 --> 00:58:39.968 but the as I clear that that's going to work.

NOTE Confidence: 0.8359416

00:58:39.968 --> 00:58:42.320 The problem is that that part of the

NOTE Confidence: 0.8359416

00:58:42.390 --> 00:58:45.267 scientific process is not as getting better.

NOTE Confidence: 0.8359416

00:58:45.270 --> 00:58:47.000 Major publications like the New

NOTE Confidence: 0.8359416

00:58:47.000 --> 00:58:48.730 York Times and Washington Post,

NOTE Confidence: 0.8359416

00:58:48.730 --> 00:58:50.977 and I think to a certain extent

NOTE Confidence: 0.8359416

00:58:50.977 --> 00:58:52.745 the networks in their coverage

NOTE Confidence: 0.8359416

00:58:52.745 --> 00:58:54.947 have done less of that dude.

NOTE Confidence: 0.8359416

00:58:54.950 --> 00:58:56.972 Taking small studies and they can

NOTE Confidence: 0.8359416

00:58:56.972 --> 00:58:59.448 go for a whole lot of reasons,

NOTE Confidence: 0.8359416

00:58:59.450 --> 00:59:01.185 go either way and making

NOTE Confidence: 0.8359416

00:59:01.185 --> 00:59:03.260 a big deal out of it.

NOTE Confidence: 0.878582

00:59:05.590 --> 00:59:08.006 But there is a lot of lack of

NOTE Confidence: 0.878582

00:59:08.006 --> 00:59:09.539 understanding of the need for.
NOTE Confidence: 0.8399461

00:59:11.750 --> 00:59:14.030 This consistent beta the data coming to
NOTE Confidence: 0.8399461

00:59:14.030 --> 00:59:16.353 the same conclusion before you make it
NOTE Confidence: 0.8399461

00:59:16.353 --> 00:59:18.740 recommendation and a lot of things changed.
NOTE Confidence: 0.8399461

00:59:18.740 --> 00:59:20.930 I mean it was a really big deal in the
NOTE Confidence: 0.8399461

00:59:20.992 --> 00:59:23.482 1990s when the Women's Health Initiative
NOTE Confidence: 0.8399461

00:59:23.482 --> 00:59:25.142 showed that hormone replacement
NOTE Confidence: 0.8399461

00:59:25.208 --> 00:59:27.672 therapy was not was more harmful than
NOTE Confidence: 0.8399461

00:59:27.672 --> 00:59:29.236 beneficial and millions of women
NOTE Confidence: 0.8399461

00:59:29.236 --> 00:59:31.260 there went off it in an afternoon and
NOTE Confidence: 0.8399461

00:59:31.317 --> 00:59:33.352 suffered severe consequences like hot
NOTE Confidence: 0.8399461

00:59:33.352 --> 00:59:35.387 flashes and feeling really terrible.
NOTE Confidence: 0.8399461

00:59:35.390 --> 00:59:37.812 But there have been all these small
NOTE Confidence: 0.8399461

00:59:37.812 --> 00:59:40.388 studies and when I was guilty of doing,
NOTE Confidence: 0.8399461

00:59:40.390 --> 00:59:42.526 going along with some of these
NOTE Confidence: 0.8399461

00:59:42.526 --> 00:59:43.950 small studies that said.

NOTE Confidence: 0.8399461

00:59:43.950 --> 00:59:46.236 It enhanced your memory at made,

NOTE Confidence: 0.8399461

00:59:46.240 --> 00:59:48.532 made a woman's skin better and

NOTE Confidence: 0.8399461

00:59:48.532 --> 00:59:50.060 all kinds of stuff.

NOTE Confidence: 0.8399461

00:59:50.060 --> 00:59:52.684 And it turned out it when somebody actually

NOTE Confidence: 0.8399461

00:59:52.684 --> 00:59:55.408 did the giant randomized control trial.

NOTE Confidence: 0.8399461

00:59:55.410 --> 00:59:56.938 It wasn't the case.

NOTE Confidence: 0.7681945

00:59:56.940 --> 00:59:59.988 Well, maybe then part of the you know,

NOTE Confidence: 0.7681945

00:59:59.990 --> 01:00:01.586 science. Education that science

NOTE Confidence: 0.7681945

01:00:01.586 --> 01:00:03.581 journalists give should be more

NOTE Confidence: 0.7681945

01:00:03.581 --> 01:00:05.498 focused on the process of science.

NOTE Confidence: 0.7681945

01:00:05.500 --> 01:00:06.940 Rather, the process of

NOTE Confidence: 0.82862735

01:00:06.940 --> 01:00:08.740 science before you knowing the

NOTE Confidence: 0.82862735

01:00:08.740 --> 01:00:10.960 process of science before you report

NOTE Confidence: 0.82862735

01:00:10.960 --> 01:00:13.480 it is very important and that there

NOTE Confidence: 0.82862735

01:00:13.480 --> 01:00:14.956 are organizations like Annenberg

NOTE Confidence: 0.82862735

01:00:14.956 --> 01:00:17.044 Foundation supports a lot of of
NOTE Confidence: 0.82862735

01:00:17.044 --> 01:00:18.820 it's called there's a journalist.
NOTE Confidence: 0.82862735

01:00:18.820 --> 01:00:21.340 Tip Sheet is not just about science,
NOTE Confidence: 0.82862735

01:00:21.340 --> 01:00:23.500 but it tells you how to.
NOTE Confidence: 0.82862735

01:00:23.500 --> 01:00:25.690 How to approach this subject and
NOTE Confidence: 0.82862735

01:00:25.690 --> 01:00:28.180 to think about it and frame it.
NOTE Confidence: 0.82862735

01:00:28.180 --> 01:00:31.008 And you might want to talk to.
NOTE Confidence: 0.82862735

01:00:31.010 --> 01:00:32.816 Look at these resources and there is
NOTE Confidence: 0.82862735

01:00:32.816 --> 01:00:35.059 the AAA S the American associated with
NOTE Confidence: 0.82862735

01:00:35.059 --> 01:00:37.177 advancement of science has a whole
NOTE Confidence: 0.82862735

01:00:37.238 --> 01:00:39.088 lot of resources for journalists,
NOTE Confidence: 0.82862735

01:00:39.090 --> 01:00:41.211 so because a lot of mainstream publications
NOTE Confidence: 0.82862735

01:00:41.211 --> 01:00:43.610 have cut back on their science reporting,
NOTE Confidence: 0.82862735

01:00:43.610 --> 01:00:46.310 so you don't have people who do it day
NOTE Confidence: 0.82862735

01:00:46.310 --> 01:00:49.099 in and day out who know the process.
NOTE Confidence: 0.82862735

01:00:49.100 --> 01:00:51.038 So that's why you get the

NOTE Confidence: 0.82862735

01:00:51.038 --> 01:00:52.330 somebody from USA TODAY.

NOTE Confidence: 0.82862735

01:00:52.330 --> 01:00:53.960 Calling somebody out, asking stupid

NOTE Confidence: 0.82862735

01:00:53.960 --> 01:00:55.880 questions because they they don't have.

NOTE Confidence: 0.82862735

01:00:55.880 --> 01:00:57.173 They don't have background.

NOTE Confidence: 0.82862735

01:00:57.173 --> 01:00:59.113 They used to have a lot.

NOTE Confidence: 0.82862735

01:00:59.113 --> 01:01:00.753 USA TODAY as an example.

NOTE Confidence: 0.82862735

01:01:00.753 --> 01:01:03.540 They used to have a big size step.

NOTE Confidence: 0.82862735

01:01:03.540 --> 01:01:08.836 And if they laid off almost all an.

NOTE Confidence: 0.82862735

01:01:08.840 --> 01:01:11.570 So there, but for people who want

NOTE Confidence: 0.82862735

01:01:11.570 --> 01:01:13.550 good information is out there.

NOTE Confidence: 0.82862735

01:01:13.550 --> 01:01:17.238 I think that there's not a danger that.

NOTE Confidence: 0.82862735

01:01:17.240 --> 01:01:20.498 An when things happen that scare

NOTE Confidence: 0.82862735

01:01:20.498 --> 01:01:22.670 public health people enough,

NOTE Confidence: 0.82862735

01:01:22.670 --> 01:01:24.660 the.

NOTE Confidence: 0.82862735

01:01:24.660 --> 01:01:25.743 Like vaccine hesitancy,

NOTE Confidence: 0.82862735

01:01:25.743 --> 01:01:27.909 there is a growing movement to
NOTE Confidence: 0.82862735

01:01:27.909 --> 01:01:29.109 handle it correctly.
NOTE Confidence: 0.82862735

01:01:29.110 --> 01:01:30.965 It hasn't worked with edit
NOTE Confidence: 0.82862735

01:01:30.965 --> 01:01:32.078 global warming yet,
NOTE Confidence: 0.82862735

01:01:32.080 --> 01:01:34.537 but I think is young people get
NOTE Confidence: 0.82862735

01:01:34.537 --> 01:01:36.160 more interested in adults.
NOTE Confidence: 0.82862735

01:01:36.160 --> 01:01:38.470 It is more of a defining
NOTE Confidence: 0.82862735

01:01:38.470 --> 01:01:40.609 issue than they have when I
NOTE Confidence: 0.76530564

01:01:40.610 --> 01:01:42.094 certainly hope so, especially
NOTE Confidence: 0.76530564

01:01:42.094 --> 01:01:43.578 for creating great grandchildren.
NOTE Confidence: 0.76530564

01:01:43.580 --> 01:01:45.435 I don't think it's going
NOTE Confidence: 0.76530564

01:01:45.435 --> 01:01:47.660 to be great. I think as
NOTE Confidence: 0.76530564

01:01:47.660 --> 01:01:48.674 we grandchildren,
NOTE Confidence: 0.76530564

01:01:48.674 --> 01:01:50.702 grandchildren they're going to
NOTE Confidence: 0.76530564

01:01:50.702 --> 01:01:53.480 really have to look at these.
NOTE Confidence: 0.76530564

01:01:53.480 --> 01:01:55.212 120 degree Fahrenheit days.

NOTE Confidence: 0.76530564

01:01:55.212 --> 01:01:57.810 There are occurring out regularly in

NOTE Confidence: 0.76530564

01:01:57.884 --> 01:02:00.038 Bombay and these water tables going

NOTE Confidence: 0.76530564

01:02:00.038 --> 01:02:02.659 down all over the world and crop

NOTE Confidence: 0.76530564

01:02:02.659 --> 01:02:04.891 shifting and things like Dengue a

NOTE Confidence: 0.76530564

01:02:04.891 --> 01:02:07.694 moving North in a big hurry because

NOTE Confidence: 0.76530564

01:02:07.694 --> 01:02:10.130 of mosquitoes are moving or it's

NOTE Confidence: 0.76530564

01:02:10.130 --> 01:02:12.734 those are all that matters and well,

NOTE Confidence: 0.8031919

01:02:12.740 --> 01:02:14.960 maybe we should be re channel

NOTE Confidence: 0.8031919

01:02:14.960 --> 01:02:17.060 their energy into global warming.

NOTE Confidence: 0.8031919

01:02:17.060 --> 01:02:19.030 May be very helpful thing.

NOTE Confidence: 0.8031919

01:02:19.030 --> 01:02:21.774 Well thank you so much for coming.

NOTE Confidence: 0.8031919

01:02:21.780 --> 01:02:24.126 Yeah, I've really enjoyed speaking with

NOTE Confidence: 0.7889726

01:02:35.210 --> 01:02:36.860 Hope you enjoyed that episode.

NOTE Confidence: 0.7889726

01:02:36.860 --> 01:02:39.812 Thanks again to Bob for being on the podcast.

NOTE Confidence: 0.7889726

01:02:39.820 --> 01:02:42.252 You can find Bob on Twitter at Robert

NOTE Confidence: 0.7889726

01:02:42.252 --> 01:02:44.420 Buzzell and that's at Robert Bazell.
NOTE Confidence: 0.7889726

01:02:44.420 --> 01:02:47.056 You can also find him at his adjunct
NOTE Confidence: 0.7889726

01:02:47.056 --> 01:02:48.700 faculty profile page at yale.edu.
NOTE Confidence: 0.7889726

01:02:48.700 --> 01:02:51.330 You could also purchase this book her too,
NOTE Confidence: 0.7889726

01:02:51.330 --> 01:02:52.648 at your favorite bookseller.
NOTE Confidence: 0.7889726

01:02:52.648 --> 01:02:55.277 Pretty sure I picked up a copy on
NOTE Confidence: 0.7889726

01:02:55.277 --> 01:02:57.580 Amazon.com and it arrived in two days.
NOTE Confidence: 0.7889726

01:02:57.580 --> 01:02:58.588 It was awesome.
NOTE Confidence: 0.7889726

01:02:58.588 --> 01:03:00.604 Thanks to the Yale School of
NOTE Confidence: 0.7889726

01:03:00.604 --> 01:03:02.719 Medicine for sponsoring the podcast,
NOTE Confidence: 0.7889726

01:03:02.720 --> 01:03:04.620 and especially to Adrian Bottom
NOTE Confidence: 0.7889726

01:03:04.620 --> 01:03:06.520 Burger for producing this podcast
NOTE Confidence: 0.7889726

01:03:06.581 --> 01:03:08.567 and Ryan McEvoy for sound editing.
NOTE Confidence: 0.7889726

01:03:08.570 --> 01:03:10.537 Special thanks to you for listening again.
NOTE Confidence: 0.7889726

01:03:10.540 --> 01:03:11.950 My name is Daniel Barron
NOTE Confidence: 0.7889726

01:03:11.950 --> 01:03:13.360 and I've been your host.

NOTE Confidence: 0.7889726

01:03:13.360 --> 01:03:16.180 An will see you next time on science at all.