

Syllabus: Radiobiology for Residents 2011-2012**Thursdays, 1:00 – 2:00 pm**

Rad. Onc. Conference Room E, Smilow Lower Level

<u>Date</u>	<u>Topic</u>	<u>Instructor</u>	<u>Room</u>
September 15, 2011	Basic Molecular Biology	Ryan Jensen	Classroom LL412
September 22, 2011	Molecular Biology Techniques	Ryan Jensen	Classroom LL412
September 29, 2011	DNA Strand Breaks & Chromosomal Aberrations	Brooks Low	Classroom LL412
October 6, 2011	ASTRO	ASTRO	
October 13, 2011	Molecular Mechanisms of Radiation Damage	Doug Brash	Classroom LL412
October 20, 2011	Molecular Mechanisms of DNA Repair	Doug Brash	Classroom LL412
October 27, 2011	Repair at the Cellular Level	Doug Brash	Classroom LL412
November 3, 2011	Exam	Ryan Jensen Brooks Low Doug Brash	Classroom LL412
November 10, 2011	Mechanisms of Cell Death	Dean Rupp	Classroom LL412
November 17, 2011	Molecular Signaling – Cytoplasmic	Dean Rupp	Classroom LL412
November 24, 2011	HOLIDAY	HOLIDAY	
December 1, 2011	RESIDENT INTERVIEWS		
December 08, 2011	open	open	
December 15, 2011	RESIDENT INTERVIEWS		
December 31, 2011	HOLIDAY	HOLIDAY	
January 5, 2012	Molecular Signaling – Nuclear	Dean Rupp	Classroom LL412
January 12, 2012	Cancer	William Summers	Classroom LL412
January 19, 2012	Radiation Carcinogenesis	William Summers	Classroom LL412
January 26, 2012	Exam	Dean Rupp William Summers	Classroom LL412
February 2, 2012	Cell and Tissue Kinetics	Joann Sweasy	Classroom LL412
February 09, 2012	Cell & Tissue Survival Assays	Sara Rockwell	Classroom LL412
February 16, 2012	Solid Tumor Systems	Sara Rockwell	Classroom LL412
February 23, 2012	Models of Cell Survival	David Carlson	Classroom LL412
March 1, 2012	IN-SERVICE	IN-SERVICE	
March 08, 2012	Tumor Microenvironment	Zhong Yun	Classroom LL412
March 15, 2012	Oxygen Effect	Zhong Yun	Classroom LL412
March 22, 2012	Exam	Joann Sweasy Sara Rockwell David Carlson Zhong Yun	

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March 29, 2012	Therapeutic Ratio, Time–Dose, Fractionation	Joe Contessa	Classroom LL412
April 5, 2012	Low Dose Hypersensitivity, Bystander Effects, Genomic Instability	Joe Contessa	Classroom LL412
April 12, 2012	Clinically Relevant Normal Tissue Responses & Mechanisms	Shari Damast	Classroom LL412
April 19, 2012	Biological Aspects of Alternative Dose Delivery Systems	Abhi Patel	Classroom LL412
April 26, 2012	Radiosensitizers, Bioreductive Drugs, Radioprotectors	Joanne Weidhaas	Classroom LL412
May 03, 2012	Biology of Brachytherapy	Suzanne Evans	Classroom LL412
	Exam week		If uncertain of answers to exam, email the lecturer
May 10, 2012	Interaction of RT with Chemotherapeutic Agents, PDT; MDR, Gene Therapy	Bruce McGibbon	Classroom LL412
May 17, 2012	Total Body Irradiation – Therapeutic & Accidental	Abhi Patel	Classroom LL412
May 24, 2012	Hyperthermia	Meena Moran	Classroom LL412
May 31, 2012	Cataracts; Radiation Effects in the Developing Embryo	Bryan Chang	Classroom LL412
June 7, 2012	Heritable Effects of Radiation	Faye Rogers	Classroom LL412
	Exam week		If uncertain of answers to exam, email the lecturer

INSTRUCTIONS FOR LECTURERS

Lectures last one hour.

1. Handouts are to be given for each lecture. Handouts can be the slides. Please cite references in the handouts.
2. Provide a PowerPoint file of your lecture to **Amrit Dhawan** (amrit.dhawan@yale.edu) for uploading onto the Department Server **BEFORE** your lecture.
3. Please give practice questions for each lecture. Practice questions can be taken from the in-service exam and other exam books.
4. Please e-mail exam questions to **Amrit Dhawan** (amrit.dhawan@yale.edu) one week prior to the exam date.
5. For basic science lectures, the instructors will go over the questions with the residents on the exam date.
NEW!! For clinical lectures, exam questions will be emailed after the lecture and the residents may email the lecturer that week to ask about any points they don't understand.
The exams are not graded.
To better prepare the residents for the Board Exam, it is recommended that you use the format found in the in-service exam and other relevant exam books. Alternatively, you may want to include questions from the in-service exam and previous Boards. Include the answers on a separate sheet.

Directions to Smilow Cancer Center and the Radiation Oncology Conference Room ("Room E") from the Hunter Building:

Go through the Atrium in the main hospital into the Smilow lobby; take an elevator to the lower level, LL.

Enter the Radiation Oncology patient reception area (sign). Take an immediate right, go through the wooden door, go past the receptionists' desk, and go through the wooden double doors. Turn right and go halfway down the long hallway to the overhead sign that says "E" (near ceiling on left). The conference room is in Room E (LL412).

To use a laptop with the projector, it looks like you unplug the existing Dell computer connection at the projector and plug in the connector from your laptop.