

RADIATION BIOLOGY-Fall 2006

Time: 5:30-8:00 PM, Tuesdays

Place: Conference Room W302; The Research Building

Course Director: Timothy J. Jorgensen, PhD, MPH
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Text (optional): Radiobiology for the Radiologist by Eric J. Hall;
J.B. Lippincott Company, Philadelphia

<u>DATE</u>	<u>TOPIC</u>	<u>LECTURER</u>
Sept. 5	Radiation: Types, Units, Interaction with Matter	Borzillary
Sept. 12	Molecular Techniques in Radiobiology	Notario
Sept. 19	Radiation Chemistry DNA Damage and Repair I: Enzymology	Jorgensen Roy
Sept. 26	Radiation Genetics I: Chromosome Damage Cytogenetic Methods for Radiation Dosimetry	Jorgensen Blancato
Oct. 3	Cell Survival: in vitro and in vivo	Jung
Oct. 10	DNA Damage and Repair II: Radiosensitivity Radiation Genetics II: Gene Mutation	Jorgensen Jorgensen
Oct. 17	MID-TERM EXAMINATION	
Oct. 24	Radiation Carcinogenesis Mechanisms of Radiation-Induced Cell Death	Notario Suy
Oct. 31	Cellular Repair: SLDR, PLDR, dose rate effects	Jung
Nov. 7	Molecular Strategies for Radiosensitizing Tumors	Kasid
Nov. 14	Biological Issues in Clinical Radiotherapy Important Radiobiology Topics for the Radiation Oncologist	Gagnon Collins
Nov. 21	STUDENT PRESENTATIONS	
Nov. 28	Radiation Exposure In-Utero	Jorgensen
Dec. 5	Transcription Targeting of DNA Repair	Soldatenkov
Dec. 12	Principles of Cancer Risk Assessment Whole-Body Effects and Tissue Sensitivity	Jorgensen Jorgensen
Dec. 19	FINAL EXAM	