

Monday/Thursday Fall 2023

**CELL DEATH (MBGC 5075Q)**  
 ALL LECTURES FROM 6:00 to 7:30 P.M.

This class is hybrid (TBA; recurrent zoom)  
 Email: birgera@njms.rutgers.edu

Date	Day	Lecture	Room E-609b	Lecturer
<b>Part 1: Biology and Genetics of Cell Death</b>				
10/16	Mon	1	Introductory Remarks and History of Cell Death Field. Apoptosis, Necrosis, Autophagy	Birge
10/19	Thur	2	Methods of detecting Live/Apoptotic cells; Mechanisms of Phosphatidylserine (PS) externalization	Birge
10/23	Mon	3	PS externalization (continued) Apoptosis in Development ( <i>C. elegans</i> , <i>Drosophila</i> , and <i>Mammals</i> )	Birge
10/26	Thur	4	Molecular Mechanisms for Apoptosis-I: Caspases	Birge
10/30	Mon	5	Molecular Mechanisms for Apoptosis-II: Caspases (continued) Mitochondria	Birge
11/02	Thur	6	Molecular Mechanisms for Apoptosis-III: Bcl-2 Family Proteins	Birge
11/06	Mon	7	Review Session	Birge
11/09	Thurs		<b>Exam #1 (50% of Grade)</b>	
<b>Part 2: Therapeutic and Disease Relevance of Cell Death</b>				
11/13	Mon	8	Caspase Independent Cell Death/MPT	Birge
11/16	Thur	9	Necroptosis/Autophagy/Ferroptosis/Netosis	Birge
11/20	Mon	10	Therapeutic Targets of Apoptosis-I Cancer	Birge
11/27	Mon	11	Therapeutic Targets of Apoptosis-II: Virus & Neurodegeneration (Death in Post-Mitotic Cells)	Birge
11/30	Thur	12	Clearing the Corpses-I: Receptors and Degradation pathways	Birge
12/04	Mon	13	Clearing the Corpses-II: Inflammation, Autoimmunity, Cancer Vaccines	Birge
12/07	Thur	14	Review Session	Birge
12/11	Mon		<b>Exam #2 (50% of Grade)</b>	