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BMED 643.01: Cellular and Molecular Toxicology

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| Cellular and Molecular Toxicology (BMED 643, 3 credits; CRN #73151) | | | |
|---|---|--------------------------------|--------|
| Fall 2008 | | | |
| Course Coordinator: Mark Pershouse, Ph.D Office:Skaggs 281 Phone: 4769 Email: mark.pershouse@umontana.edu | | | |
| Textbook: Current Literature/Alberts-Molecular Biology of the Cell | | | |
| Class will meet in SB 275 Tuesday and Thursdays 3:00-4:30 pm | | | |
| Date | Unit | Lecturer(s) | Unit # |
| August 26, 2008 | Signal Transduction Overview | David Shepherd | Unit 1 |
| August 28, 2008 | Toxicants, AhR, and signal transduction | David Shepherd | |
| September 2, 2008 | NF-kB | David Shepherd | |
| September 4, 2008 | Estrogen receptor and endocrine disruptors | David Shepherd | |
| September 9, 2008 | Student presentations | David Shepherd | |
| September 11, 2008 | Unit Test | David Shepherd | |
| September 16, 2008 | Cell Cycle-Intro | Doug Coffin, Mark Pershouse | |
| September 18, 2008 | Current Literature | Doug Coffin, Mark Pershouse | |
| September 23, 2008 | Cell Cycle-Cyclins | Doug Coffin | |
| September 25, 2008 | Current Literature | Doug Coffin | |
| September 30, 2008 | Cell Cycle-Tumor Suppressors and Oncogenes | Mark Pershouse | |
| October 2, 2008 | Unit Test | Mark Pershouse, Doug Coffin | |
| October 7, 2008 | "Cellular physiology and pathophysiology of reactive oxygen and nitrogen species" | Howard Beall, Fernando Cardozo | Unit 3 |
| October 9, 2008 | " | Howard Beall, Fernando Cardozo | |
| October 14, 2008 | " | Howard Beall, Fernando Cardozo | |
| October 16, 2008 | " | Howard Beall, Fernando Cardozo | |
| October 21, 2008 | " | Howard Beall, Fernando Cardozo | |
| October 23, 2008 | Unit Test | Howard Beall, Fernando Cardozo | |
| October 28, 2008 | Genetic mechanisms in toxicology | Liz Putnam | Unit 4 |
| October 30, 2008 | Genetic mechanisms in toxicology | Liz Putnam | |
| November 6, 2008 | Genetic mechanisms in toxicology | Liz Putnam | |
| November 13, 2008 | Molecular Epidemiology | Liz Putnam | |
| November 18, 2008 | Unit Test | Liz Putnam | |
| November 20, 2008 | Apoptosis-Overview and regulation | Andrij Holian | Unit 5 |
| November 25, 2008 | Apoptosis-Signaling pathways | Andrij Holian | |
| December 2, 2008 | Apoptosis-Current research areas | Andrij Holian | |
| December 4, 2008 | Apoptosis-Current literature | Andrij Holian | |
| December 9, 2008 | Apoptosis-Current literature | Andrij Holian | |
| December 11, 2008 | Unit Test | Andrij Holian | |
| <p>Grades in this course will be based on five unit exams, presentations, written assignments . Instructors within each unit will be responsible for a breakdown of points within their unit. Prerequisite are BMED 641 and 642 or consent of the coordinator. The purpose of the course is to provide an advanced course in cellular and molecular biology as they pertain to the field of toxicology. The five focus areas chosen are considered critical to many disciplines and thus the course has wide applicability in manyof the biomedical sciences. Students will gain a better understanding of these five focus areas through lectures, journal club style presentations, written assignments, and class discussion. There is no assigned textbook, but Molecular Biology of the Cell by Alberts et al. serves as a good reference text. Course attendance is mandatory. With prior consent of the instructor, make up work may be substituted for the lectures or presentations missed</p> | | | |