**Cell Death (GMS6691, Section 0002) 2023 Spring Semester Schedule (Course Director: Dr. Daiqing Liao,** [**dliao@ufl.edu**](mailto:dliao@ufl.edu)**)**

CGRC 491 - Module II - Tuesdays and Thursdays – 1:30-3:30PM

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| Date | Lecturer and lecture title | Student Presenter | Paper for presentation and class discussion |
| Tuesday  Feb. 14 | Dr. Daiqing Liao (Pyroptosis, Necroptosis and Ferroptosis) |  | Yan B et al. Membrane Damage during Ferroptosis Is Caused by Oxidation of Phospholipids Catalyzed by the Oxidoreductases POR and CYB5R1  Mol Cell 2020 <https://www.ncbi.nlm.nih.gov/pubmed/33321093> |
| Thursday  Feb. 16 | Dr. Yehia Daaka (Apoptosis) |  | Medina CB et al. Metabolites released from apoptotic cells act as tissue messengers, Nature, 2020 Apr;580(7801):130-135. doi: 10.1038/s41586-020-2121-3. Epub 2020 Mar 18. <https://pubmed.ncbi.nlm.nih.gov/32238926/> |
| Thursday  Feb. 21 | Dr. Rene Opavsky (Epigenetic regulation of apoptosis) |  | Motiwala T et al. PTPROt-mediated regulation of p53/Foxm1 suppresses leukemic phenotype in a CLL mouse model. Leukemia (2015) 29, 1350–1359; doi:10.1038/leu.2014.341 <https://www.nature.com/articles/leu2014341> |
| Tuesday  Feb. 23 | Dr. Shuang Huang (Anoikis and its molecular pathways and implication in cancer progression) |  | Bao X et al. 2018 Proteolytic Release of the p75NTR Intracellular Domain by ADAM10 Promotes Metastasis and Resistance to Anoikis. Cancer Res. 2018 May 1;78(9):2262-2276 <https://cancerres.aacrjournals.org/content/78/9/2262.long> |
| Tuesday  Feb. 28 | Dr. Satya Narayan (DNA damage and apoptosis) |  | Tavora B. et al. Endothelial-cell FAK targeting sensitizes tumours to DNA-damaging therapy. Nature. 2014;514:112-6. <https://www.ncbi.nlm.nih.gov/pubmed/25079333> |
| Thursday  March 2 | Dr. Nadja Makki (Cell death in development and disease) |  | Fritsch, M., et al. Caspase-8 is the molecular switch for apoptosis, necroptosis and pyroptosis. Nature 575, 683-687, doi:10.1038/s41586-019-1770-6 (2019). <https://www.ncbi.nlm.nih.gov/pubmed/31748744> |
| Tuesday  March 7 | Dr. Brian Law (Utilizing oncogene addiction and synthetic lethality for cancer therapy) |  | O’Connor CM et al. Targeting Ribonucleotide Reductase Induces Synthetic Lethality in PP2A-Deficient Uterine Serous Carcinoma, Cancer Res (2022) 82 (4): 721–733. <https://doi.org/10.1158/0008-5472.CAN-21-1987> |
| Thursday  March 9 | Dr. John Aris (Senescence) |  | Baker DJ, at al. Naturally occurring p16(Ink4a)-positive cells shorten healthy lifespan. Nature. 2016 Feb 11;530(7589):184-9. <https://www.nature.com/articles/nature16932> |
| March 11-18 | Spring break |  |  |
| Tuesday March 21 | Dr. William A. Dunn, Jr. (Autophagy-mediated cell death) |  | Yang et al. 2019. Increased expression of lncRNA CASC9 promotes tumor progression by suppressing autophagy-mediated cell apoptosis via the AKT/mTOR pathway in OSCC. *Cell Death and Disease* 10:41  <https://www.nature.com/articles/s41419-018-1280-8> |
| Thursday March 23 | Take-home quiz |  |  |

The course is offered on Tuesdays and Thursdays online via zoom from 1:30 – 3:30 PM. It is designed to have nine classroom sessions (90 to 120 minutes) that will consist of a 45-60 minute lecture followed by a 45-60 minute discussion of article(s) chosen by the faculty. One student will present an article after each lecture, but all students are required to read the article and to participate in discussion. For group paper discussion, a roundtable discussion of the publication will take place. A quiz of 6-10 questions will be handed out on Thursday, March 24th and due back on Monday March 28th before 5 pm.

Grading: 50% Presentation and classroom participation

50% Take-home short answer quiz