SYLLABUS
Special Topics in Regenerative Medicine (ANAT 6223; SPRING 2016)

COURSE DESCRIPTION:
ANAT 6223 is a new graduate course at a certificate level designed to expose students to cutting edge research in Regenerative Medicine. Students are expected to attend weekly seminars presented by speakers from the GW community and other institutions invited by the Department of Anatomy and Regenerative Biology, the George Washington Institute of Neuroscience (GWIN), or the Molecular Medicine Program (IBS graduate course MMED 8214). The course director will provide students with a list of seminars scheduled for the fall or spring semester, from which students will select seminars matching their interest. These seminar series are detailed the IBS, GWIN or Department of Anatomy and Regenerative Biology website.

LEARNING OBJECTIVES:
1) Explain scientific concepts in stem cell biology and regenerative medicine.
2) Write eight (8) short press releases to distill essential information on a topic relevant to stem cell biology and regenerative medicine.

CREDIT HOURS: 2

PREREQUISITE: Introductory Biology for Science or non-Science Majors. Enrollment in the Graduate Certificate in Anatomical and Translational Sciences or permission of the Director of the Graduate Certificate.

LECTURE CONTACT TIME/HOURS: Weekly 1-hour seminar throughout the semester. Students must submit their list of seminars that he/she will attend during the semester. Students are expected to attend 12 seminars per semester. Seminars can be sponsored by the department of Anatomy and Regenerative Biology, GWIN, the Molecular Medicine Graduate Program, and any other GW departments. All seminars are advertised on various venues of the GW School of Medicine.

METHOD OF ASSESSMENT: Students will write eight (8) short press releases on different topics from invited speakers. The short press release (250 words) must encapsulate the main questions articulated by the speaker, a brief description of the health-related issue, key conceptual advances and how this research may lead to better treatments or therapeutic modalities. Each press release will make 12.5% of the final grade.

FACULTY: Anne Chiaramello, Ph.D., (Course Director), Associate Professor, Department of Anatomy & Regenerative Biology; Ross Hall 111; Email: achiaram@gwu.edu

TEXTBOOK: None
READING LIST: None

CLASS POLICIES
Mandatory attendance to weekly seminars.
Late work: accepted with permission, penalty may be incurred if unduly late as determined by instructor
Religious Holidays: will be accommodated if requested
[NOTE: for university policies on teaching, see http://www.gwu.edu/~academic/Teaching/main.htm ]

ACADEMIC INTEGRITY
I personally support the GW Code of Academic Integrity. It states: “Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information.” For the remainder of the code, see: http://www.gwu.edu/~ntegrity/code.html

SUPPORT FOR STUDENTS OUTSIDE THE CLASSROOM
DISABILITY SUPPORT SERVICES (DSS)
Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in the Marvin Center, Suite 242, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: http://gwired.gwu.edu/dss/

UNIVERSITY COUNSELING CENTER (UCC) 202-994-5300
The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include:
- crisis and emergency mental health consultations
- confidential assessment, counseling services (individual and small group), and referrals http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices

SECURITY
In the case of an emergency, if at all possible, the class should shelter in place. If the building that the class is in is affected, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location.

SPRING SEMINAR SERIES
Seminars from the Molecular Medicine Program are scheduled on Mondays and Wednesdays from 12:30 pm to 1:30 pm in Ross Hall 643.

Seminars from the George Washington Institute of Neuroscience (GWIN) are scheduled on Thursdays from 4:00 pm to 5:00 pm, either at GWU Medical School (Ross Hall 227), as described in the GWIN website (http://smhs.gwu.edu/neuroscience/series).
Seminars from the Grand Rounds of Neurology are held on Tuesdays and live streamed: [http://smhs.gwu.edu/epilepsy/epilepsy-seminar-series](http://smhs.gwu.edu/epilepsy/epilepsy-seminar-series). Already aired seminars in the Fall semester can be viewed on Video on Demand via [http://smhs.gwu.edu/epilepsy/epilepsy-seminar-series](http://smhs.gwu.edu/epilepsy/epilepsy-seminar-series).

Seminars from the Department of Microbiology, Immunology and tropical medicine are held in Ross Hall 602 on Wednesdays at 5:00 pm. However, there are several exceptions in the schedule listed below.

**January 14, 2016** (Thursday, GW Hospital Auditorium (Basement); 12:00 pm to 1:00 pm): Dr. Pedro Greer, Professor of Medicine, Florida International University Herbert Weitheim College of Medicine: How medical school curricula can make America better.

**January 19, 2016** (Tuesday, Ross Hall 229; 12:00 pm to 1:00 pm): Dr. Katherine Chiapinelli, Postdoctoral fellow, Johns Hopkins University School of Medicine: Inhibiting DNA methylation causes an interferon response via dsRNA including endogenous retroviruses and sensitizes tumors to immune therapy.

**January 20, 2016** (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Allison Burrell, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Bonner, NIH, NCI: The HEART-BREAK study: using the gamma-H2AX assay to evaluate diagnostic ionizing radiation exposure from cardiac imaging.

**January 21, 2016** (Thursday; Ross Hall 227; 4:00 pm): Dr. Massimo Scanziani, Professor of Neurobiology, University of San Diego: Cortical Visual Processing.

**January 27, 2016** (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Jaya Punetha, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Hoffman, Children’s National Medical Center: Investigating genetic mechanisms underlying clinical heterogeneity in neuromuscular diseases.

**January 27, 2016** (Wednesday; Ross Hall 602; 5:00 pm): Dr. Michael Hsieh, Director of Translational Urology, Children’s National Medical Center: Understanding epithelial immunity through a tail of two molecules: IL-22 and IPSE.

**February 2, 2016** (Tuesday, Marvin Center; Room 307; 8:00 am or live streamed): Dr. Michael Privitera, University of Cincinnati, School of Medicine: Generic-brand antiepileptic drug equivalence: from anecdotes to evidence.

**February 4, 2016** (Thursday; Ross Hall 227; 4:00 pm): Dr. David Badre, Associate Professor of Cognitive, Linguistic & Psychological Sciences, Brown University: Cognitive neuroscience of memory and executive function.
February 8, 2016 (Monday, Ross Hall 227; 12:00 pm to 1:00 pm): Ling Lang, Integrative Medicine Track, GW School of Medicine: Yoga and meditation as therapeutic partners or medial therapeutic for special conditions.

February 10, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Sarah Deasy, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Lee, GWUMC: Candidate susceptibility genes in breast cancer.

February 10, 2016 (Wednesday; Ross Hall 602; 5:00 pm): Dr. Yasmine Belkaid, Chief, Mucosal Immunology Section, Laboratory of Parasitic Diseases, NIH, National Institute of Allergy and Infectious diseases, NIH: Leukocytes, leukemia and lymphedema: many facets of GATA2.

February 18, 2016 (Thursday; Ross Hall 227; 4:00 pm): Dr. Nicholas Turk-Browne, Associate Professor of Psychology, Princeton University: Treating the mind and brain as integrated systems.

February 24, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Jacqueline Olender, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Hunter, NCI: Exon skipping as a mechanism for health disparities in African American prostate cancer.

March 2, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Eshini Panditharatna, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Nazarian, Children’s National Medical Center: Neuroanatomical and intramural heterogeneity in diffuse intrinsic pontine glioma.

March 8, 2016 (Tuesday, Marvin Center; Room 307; 8:00 am or live streamed): Dr. Robert Miller, Senior Associate Dean for Research, George Washington University School of Medicine: ALS disease and the immune system.

March 9, 2016 (Wednesday; Ross Hall 602; 12:00 pm to 1:00 pm): Dr. Steven Holland, Laboratory of clinical infectious diseases, Immunopathogenesis section, National Institute of Allergy and Infectious diseases, NIH: Leukocytes, leukemia and lymphedema: many facets of GATA2.

March 23, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Hayley Dingerdissen, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Mazumder: HIVE proteomics: Integrated, cloud-based RNA-Seq and proteomics analysis of prostate adenocarcinoma samples.

March 28, 2016 (Monday; Ross Hall 643, 12:30 pm to 1:30 pm): Meg Goswani, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Hourigan, NIH: The phenotype and function of marrow-infiltrating lymphocytes in healthy subjects and AML patients.
March 31, 2016 (Thursday; Ross Hall 227; 4:00 pm): Dr. Sabine Kastner, Professor of Psychology, Princeton University: The neural basis of visual perception, attention and awareness.

April 6, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Emily Levy, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Childs, NIH: Enhancement of the homing of adoptively transferred NK cells to the bone marrow for the treatment of hematological malignancies.

April 11, 2016 (Monday; Ross Hall 643, 12:30 pm to 1:30 pm): Kelly Murphy, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Chen, Children’s National Medical Center: Infantile onset facioscapulohumeral muscular dystrophy.

April 12, 2016 (Tuesday, Marvin Center; Room 307; 8:00 am or live streamed): Dr. Jaideep Kapur, University of Virginia School of Medicine: Mechanisms and treatment of status epilepticus.

April 13, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Stephanie Perkail, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Tzatsos, GWUMC: Small molecule inhibitors for epigenetic enzymes.

April 14, 2016 (Thursday; Ross Hall 227; 4:00 pm): Dr. Daniel O’Connor, Assistant Professor of Neuroscience, Johns Hopkins University.

April 18, 2016 (Monday, Ross Hall 643; 12:30 pm to 1:30 pm): Nick Sciascia, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Misteli, NIH: Identification of gene positioning factors using high-throughput imaging mapping.

April 20, 2016 (Wednesday, Ross Hall 643; 12:30 pm to 1:30 pm): Adam Swiercz, Graduate Student of the Molecular Medicine Program in the laboratory of Dr. Marvar, GWUMC: How environmental factors, such as stress and anxiety related disorders contribute to high blood pressure and cardiovascular disease development.