**GENET 591: “Workshop in Genetics”**  
**Fall 2017**

**Topic:** The 4D Nucleus: How is gene expression modulated by intra-nuclear location, genomic location, controlling elements, and time?

**Instructor information:** Jeff Essner ([jessner@iastate.edu](mailto:jessner@iastate.edu))  
**Student course leader:** Tes Posekany ([posekany@iastate.edu](mailto:posekany@iastate.edu))

**Class time:** Thursday, 3:10-4pm (see class schedule below)  
**Location:** LeBaron 2069  
**Note:** Locations and meeting times for public seminars, classes, and small group talks are different.

**Groups (to be decided on the first day of class):**
1.  
2.  
3.  
4.  
5.  
6.  
7.  
8.

**Course information can be found here:**  
[https://www.genetics.iastate.edu/workshop-genet-591](https://www.genetics.iastate.edu/workshop-genet-591)

**Expected learning outcomes:** Students should expect to enhance their ability to read, interpret, and present scientific literature to a scientific audience (the class). Students will further develop their question-asking ability through class room discussions and by asking questions at the public seminars. Students will also practice their networking skills through small group meal meetings with the invited speakers and students will have the opportunity to volunteer to introduce a speaker at the public seminar.

**Grading:** This class is offered on a satisfactory-fail basis only.

**Course guidelines:**

1. **Attendance is required at class meetings prior to each speaker.** Read all assigned papers for your group and be prepared for class discussions. Students will be allowed one class period absence. Students must provide Linda Wild ([lmwild@iastate.edu](mailto:lmwild@iastate.edu)) a list of class attendees after each class period.
2. **Students must participate in group presentations and all discussions.** Each group presentation should be approximately 15 minutes, with two presentations per class period. Group presentations should be designed to explain the assigned publication to the other students. Students are required to read all assigned papers. Students should discuss the other groups’ paper following the presentation. This should leave approximately 20 minutes for class discussion and questions. Extra time can be used to brainstorm questions for the visiting speaker and to select the introducer for the speaker. If a student does not volunteer to introduce the speaker, this responsibility will be left to the faculty host. Good class discussion and questions will increase all students’ understanding and learning outcomes.

3. **Students must attend all speaker seminars.** Students are expected to have brainstormed questions for the speaker, and are encouraged to ask their questions at the seminar. Students who miss a public seminar for an excusable circumstance (i.e. military duty, hospitalization, funeral) must write a two page review of the papers discussed for the presenting speaker. This essay must be turned in to the instructor no later than one week following the seminar; failure to do so will result in receiving an “F” for the course.

4. **Students must attend at least one small group talk.** Students are expected to come prepared to ask questions concerning the speaker’s career path, research topics, publications, etc. Attending students must provide Linda Wild ([lmwild@iastate.edu](mailto:lmwild@iastate.edu)) a list of event attendees after each meeting.

**Class schedule:**

**Thursday, August 24, 2017**
Topic: Introductions and expectations  
Class leader: Tes Posekany

**Thursday, August 31, 2017**
NO CLASS: Groups may use this time to discuss/begin preparing upcoming presentations. The classroom (Lebaron 2069) will be available Thursday from 3:10-4pm.

**Thursday, September 7, 2017**
Preparing for: Dr. Hanhui Ma  
Group 1: [http://jcb.rupress.org/content/214/5/529.long](http://jcb.rupress.org/content/214/5/529.long)  
Note: student introducer for Dr. Hanhui Ma should be selected.

**Thursday, September 14, 2017**
Preparing for: Dr. Clodagh O’Shea  
Group 3: TBD  
Group 4: TBD  
Note: student introducer for Dr. Clodagh O’Shea should be selected.
Thursday, September 21, 2017
Preparing for: Dr. Ting Wu
Group 5: https://www.nature.com/articles/ncomms8147
Group 6: http://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1004646
Note: student introducer for Dr. Ting Wu should be selected.

Thursday, September 28, 2017
Preparing for: Dr. Meng Chen
Group 7: https://www.nature.com/articles/ncomms4027
Group 8: http://www.plantcell.org/content/27/5/1409.long
Note: student introducer for Dr. Meng Chen should be selected.

Tuesday, October 3, 2017
Public Seminar: Dr. Hanhui Ma, University of Massachusetts Medical School
Time and location: 4:10 p.m. in 1414 Molecular Biology
Faculty host: Thomas Peterson

TENTATIVELY Wednesday, October 4, 2017
Small group talk with Dr. Hanhui Ma
Time and location: TBD

Tuesday, October 10, 2017
Public Seminar: Dr. Clodagh O’Shea, Salk Institute
Time and location: 4:10 p.m. in 1414 Molecular Biology
Faculty host: Marit Nilsen-Hamilton

TENTATIVELY Wednesday, October 11, 2017
Small group talk with Dr. Clodagh O’Shea
Time and location: TBD

Tuesday, October 17, 2017
Public Seminar: Dr. Ting Wu, Harvard Medical School
Time and location: 4:10 p.m. in 1414 Molecular Biology
Faculty host: Kristen Johansen

TENTATIVELY Wednesday, October 18, 2017
Small group talk with Dr. Ting Wu
Time and location: TBD

Tuesday, October 24, 2017
Public Seminar: Dr. Meng Chen, University of California, Riverside
Time and location: 4:10 p.m. in 1414 Molecular Biology
Faculty host: Steven Howell
TENTATIVELY Wednesday, October 25, 2017
Small group talk with Dr. Meng Chen
Time and location: TBD

Thursday, November 2, 2017
Topic: Discuss topic and speakers of interest for next year
Class leader: Tes Posekany
Note: Please bring your laptop and/or tablet if possible.

Thursday, November 9, 2017
Topic: Decide on topic and prioritize speaker list for next year and send invitations
Class leader: Tes Posekany
Note: Please bring your laptop and/or tablet if possible.

Thursday, November 16, 2017
Topic: Make desired syllabus changes for next year and select next year’s student leader(s)
Class leader: Tes Posekany
**Academic Dishonesty**
This class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office.
http://www.dso.iastate.edu/ja/academic/misconduct.html

**Disability Accommodation**
Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact (instructor name) to set up a meeting within the first two weeks of the semester or as soon as you become aware of your need. Before meeting with (instructor name), you will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220 or email disabilityresources@iastate.edu. Retroactive requests for accommodations will not be honored.

**Harassment and Discrimination**
Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

**Religious Accommodation**
If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.

**Contact Information**
If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu.