Molecular & Environmental Toxicology MET 699
Schedule of Classes

Contacts (Faculty & Sciences):
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Classes will meet Thursdays, noon-1:30pm, locations listed below each week

Before Summer Session Starts!!!
- This will meet with the MET Summer Research Opportunities Program tutorials
- Assignments for Week 1: Write a one page background paper on your research
  - Project Overview
  - Objective(s) and Hypothesis
  - Methods to be used

Week 1: 6/4-6/10 – Writing Research Proposals (Meets with SROP)
Room: 1360 Biotech Center
- **Potential Speaker:** Nihal Ahmad, Any MET Faculty
- How to Write and Present a Scientific Proposal (60 minutes)
  - Video on NIH Tips (5 minutes)
    https://www.youtube.com/watch?v=IAOGtr0pM6Q
  - Different sections of a Proposal (60 minutes)
  - How to develop objectives & hypotheses (30 minutes)
- **Assignment (Both):** Design a Specific Aims page with hypothesis (print & bring to class on Week 2)

Week 2: 6/11-6/17 – Types of Research Proposals (Meets with SROP)
Room: 1360 Biotech Center
- **Potential Speaker:** Nihal Ahmad, Any MET Faculty
- Turn in Specific Aims
- Introduction to NIH / NSF / AXA grants (45 minutes)
- Best Practices when writing a grant (45 minutes)
- **Assignment (Both):** Watch Scientific Writing Videos (30 minutes)
  https://www.youtube.com/watch?v=0oAFVHb21HM
  https://www.youtube.com/watch?v=3QV2c6QKsMA
  https://www.youtube.com/watch?v=zuwFDwVWp4A
Week 3: 6/18-6/24 – Scientific Writing (Meets with SROP)
Room: 1360 Biotech Center
- **Potential Speaker:** Any MET Faculty
- Specific Aims (turned in week 2) returned
- Discussion about Reading Scientific Articles (30 minutes)
  - Literature Review versus Scientific Article
  - Strategies for reading both
- Video on Scientific Writing (30 minutes)
- Discussion about Writing Scientific Article (30 minutes)
  - Video Assignment Discussion
  - Class Video Discussion
  - Avoiding Common Mistakes

**Assignment (699):**
- Select Discussion Topic (Due Week 4; see Appendix)
- Revise Specific Aims; begin writing Significance, Innovations, and Methods Pages (Due to Erin by Week 4)

**Assignment (Both):** Videos on Publishing Research (30 minutes)
- [https://www.youtube.com/watch?v=E13mWgsp_og](https://www.youtube.com/watch?v=E13mWgsp_og)
- [https://www.youtube.com/watch?v=QGii-OZVP4A](https://www.youtube.com/watch?v=QGii-OZVP4A)
- [https://www.youtube.com/watch?v=HdqfXVJKH6o](https://www.youtube.com/watch?v=HdqfXVJKH6o)

Week 4: 6/25-7/1 – Presenting Scientific Data (Meets with SROP)
Room: 1360 Biotech Center
- **Potential Speaker:** Chris Bradfield
- McConnell Video (45 minutes)
  [https://www.youtube.com/watch?v=Hp7Id3Yb9XQ](https://www.youtube.com/watch?v=Hp7Id3Yb9XQ)
- Follow-up Discussion (45 minutes)
  - Developing a Scientific Poster
  - Creating a Powerpoint Presentation
  - Further commentary

**Assignments (Both):**
- Video on How to be a Successful Scientist (15 minutes)
  [https://www.youtube.com/watch?v=7F1ee31FBWo](https://www.youtube.com/watch?v=7F1ee31FBWo)
- Poster Development for five minute talk
  - SROP: Poster based on Summer Research (Due Week 9)
  - 699: Poster based on Selected Topic (Due Week 6)

**Assignment (Both):** Read two documents e-mailed to you and make notes
- “Primary” paper be prepared to talk about in-depth
- “Secondary” paper be prepared to make comment on
- Be prepared for Week 5
7/2-7/8 – Collaboration and Misconduct (MET 699 Optional)
Room: 1360 Biotech Center
- **Potential Speaker:** Any MET Faculty, Jo Handelsman, Patti Keely
- Turn in papers electronically to Erin
- Collaboration (30 minutes)
  - What is it?
  - How to use it effectively, now and in the future
- Misconduct (60 minutes)
  - What is it?
  - Who to go to when see it?
  - Consequences of
  - Article Discussion

Week 5: 7/16-7/22 – Peer Review (Meets with SROP)
Room: 103 Taylor Hall
- **Potential Speaker:** Christopher Bradfield
- Introduction to Mock Study Section (15 minutes)
- Mock Study Section (60 minutes)
  - Primary will present thoughts
  - Secondary will include opinions
  - Group will decide funding or not
- Discussion on Providing Constructive Feedback (15 minutes)

Room: 103 Taylor Hall
- **Potential Proctor:** MET Faculty
- All students will present their (e-)posters (5min each)
- All will be questioned and given **constructive** feedback

Week 7: 7/30-8/5 – Final Presentations (Meets with SROP)
Room: 1360 Biotech Center
- **Potential Proctor:** MET Faculty
- All students will present their (e-)posters (5min each)
- All will be questioned and given **constructive** feedback
Supplementary Information For Classes

Topics for Presentations (Week 3, 699)
- An NSF example grant
- An NIH example grant
- Referencing Software: Endnote
- Software, Web of Science
- Writing an F Award
- What is the Prelim Exam Process
- PubMed
- How to present ideas on a poster
- Library resources I didn't know about
- Other funding sources (AHA, et cetera)
- Collaborative writing: dropbox/box/google docs/et al.

Tips on Grantwriting (Week 2)
http://grants.nih.gov/grants/writing_application.htm
http://nsf.gov/funding/preparing/