Genetics & genomics of disease pathway

Pathway components

1. Course, fall of 1st and 2nd years

2. Journal club, spring 1st year, year 2
3. Clinical connections, spring 1st year, year 2
4. Retreat

(Please provide feedback on how we might improve the class and pathway.)

2. Human Genetics Journal club

- 3:00 on Fridays (usually every other week)
  Biotechnology Bld. 3rd Floor Conference Rm
  Schedule: <https://zork5.wustl.edu/hsg/bio5489.html>

- Attend spring year 1
- Attend (for credit) and present in either fall or spring, year 2

First session is January 22 (Sarah Pyfrom), at 3:00
3) Clinical connections

a) Attend recurring clinical conferences
   1 per month, Spring yr 1, fall & Spring yr 2

- Genomics Tumor Board
  (Third Thurs each month, 4:00 Erlanger)

- Pediatric Genetics Conference
  (Every Mon, 12:00, Conf Rm A, 9th floor (9A), Northwest Tower)

3) Clinical connections

a) Attend recurring clinical conferences
   1 per month, Spring yr 1, fall & Spring yr 2

We have scheduled wrap-up sessions after the following conferences:

John Welch will be available after the Tumor Board on
1/21, 2/18, 3/17 (probably), 4/21 (probably), 5/19, but not
6/16

Chris Gurnett will be available after Pediatric Genetics
Conferences on 2/1, 3/7, 4/4 and 5/2.

Email Chris/John if you plan to participate in a wrap-up so that
they can prepare for the session.
3) Clinical connections

b) Shadowing a clinician (spring year 1 or year 2)
   Follow a clinician during their practice, which often involves genetically/ genomically based consideration; usually shadow for two sessions.

   - List of participating faculty is posted on the Pathway website, but the list is not all inclusive.
   - Contact Chris Gurnett <gurnettc@neuro.wustl.edu> or John Welch <JWELCH@DOM.wustl.edu> to make the initial connection with a clinician. Also contact them with additional areas of interest and they can provide more names.
   - Please write a short description of your shadowing experience.

3) Clinical connections

c) Clinical mentored project (year 2 or later) [Optional]
   A circumscribed bioinformatic project carried out with a clinical mentor on a patient case or area of mutual interest.

   The project will provide a student with a more in depth exposure to patient specific data and its analysis, and has the potential to result in novel publishable findings.

   As such projects will usually be unrelated to the students thesis work, they must be limited in duration (up 40 hrs), and thoughtfully chosen in consultation with the clinical mentor, Pathway co-directors and student's thesis mentor.
4) Retreat – October 20, 2016

- Teri Manolio (NIH/NHGRI), Keynote speaker
  [e.g., Manolio et al. Global implementation of genomic medicine: We are not alone. 2015. *Sci Transl Med.* 7:290.]

- Presentation by students (2nd year and beyond) on thesis research or on Clinical mentored project

**If you are enjoying the Pathway, please talk it up during graduate student recruiting and with first year graduate students!!!**