Inside This Issue

2 QUOTES
3 UPCOMING DEPARTMENT MEETINGS
3 ASA NEWS
3 NIH NEWS
3 ENAR NEWS
4-5 INTERESTING READS
6 STATISTICS CARTOONS
QUOTES

Statistical love poems for Valentine’s Day
- http://andrewgelman.com/2010/02/14/valentines_day/

“If you have only one smile in you give it to the people you love.” –Maya Angelou

“All you need is love. But a little chocolate now and then doesn’t hurt” –Charles M. Schulz
UPCOMING DEPARTMENT MEETINGS
• None this week

ASA NEWS
• See weekly digest

NIH NEWS
• Mine Immunology Data on New ImmuneSpace Website
  o You can now access and analyze data from the Human Immunology Project Consortium (HIPC) online through ImmuneSpace. Registration is free and access will let you use software modules designed for data integration and visualization.
  o The ImmuneSpace database is currently composed of 21 studies covering 10 types of assays and 2,500 total participants. Gene Expression, Flow Cytometry, and CyTOF are among the included assay types; participants include children, adults, and elderly after vaccination or infection, as well as healthy controls.
  o Approximately 75 studies will be made available to the public by Spring 2016. These studies will include previously published and unpublished results. While the majority of the current studies focus on immune responses generated during influenza infection and vaccination, data for immune responses to other infectious diseases such as malaria, herpes, and dengue will soon follow.
  o To mine the data, you can export a filtered subset or use one of the following modules:
    ▪ Data Explorer—quickly plot a selected immunological response variable across multiple analytes.
    ▪ Gene Expression Explorer—plot the expression level of one or more genes against a selected immunological response variable.
    ▪ Gene Set Enrichment Analysis—perform a gene set enrichment analysis across time or across a prespecified contrast.
    ▪ Immune Response Predictor—automatically select a group of genes whose expression at a given time point best predicts a given immunological response at a later time point.
  o Posted video tutorials demonstrate how to use ImmuneSpace’s tools and resources. You can also follow the Twitter handle @ImmuneSpace for tips and updates.

ENAR NEWS
• Nothing new this week
How to Read a Paper
  - https://github.com/tleek/readingpapers

Stats+Stories Episode 17: A new equation for modern journalism
  - Greetings,
    Episode 17 (“A new equation for modern journalism”) of S+S is now available. Trevor Butterworth, Director of Sense About Science USA and editor of stats.org<http://stats.org/>, joined the Stats+Stories regulars (for a second time) to discuss the skills now required for success in journalism. To listen now, please visit [http://www.statsandstories.net<http://www.statsandstories.net/> or iTunes. Please forward information about S+S to any of your colleagues or friends who might enjoy considering the statistics behind the stories and the stories behind the statistics. As always, comments and suggestions for future guests are welcome, and you are invited to post comments and program ratings on iTunes.

INTERESTING READS (RIGOR AND REPRODUCIBILITY)

Next week's Public Health Grand Rounds will be an overview of navigating the new NIH requirement for “Rigor and Reproducibility” by Gary Miller and Janet Gross. Noon on Friday (PIZZA!)

The following list provides information on the new guidelines regarding reproducibility and rigor at NIH. As of January 2016 applicants must address these issues in their proposals. The majority of this information must be embedded within the Research Strategy section of the proposal. For questions or comments please contact Dr. Miller at gary.miller@emory.edu.
  - This site is the official home for reproducibility at NIH: http://grants.nih.gov/reproducibility/index.htm
  - Frequently asked questions- essential reading as it contains many “how to” instructions (perhaps the most useful site concerning this topic): http://grants.nih.gov/reproducibility/faqs.htm
  - NIH Blog Series (Open Mike): a series that address the four major areas:
INTERESTING READS (RIGOR AND REPRODUCIBILITY) CONT’D

- Information from NIH Office of Research on Women’s Health on sex/gender as a biological variable in medical research: http://orwh.od.nih.gov/sexinscience/index.asp
- NIH Administrative Supplements for expanding research to expand studies on sex/gender:
- Editorials in Science and Nature on Reproducibility:
  - http://science.sciencemag.org/content/346/6210/679.full?sid=0377bc54-cd7c-4ed0-8ae5-bdc90a55434f
  - http://www.nature.com/news/journals-unite-for-reproducibility-1.16259
- Editorial in New York Times
- Editorials in Toxicological Sciences related to reproducibility, rigor, and data sharing:
  - http://toxsci.oxfordjournals.org/content/139/1/1.full (Reproducibility)
  - http://toxsci.oxfordjournals.org/content/143/1/3.full?sid=f40b905a-6cfb-4d29-8879-4408f4d38513 (Data Sharing)
  - http://toxsci.oxfordjournals.org/content/149/1/2.full?sid=f40b905a-6cfb-4d29-8879-4408f4d38513 (Data Transparency/Accessibility)
  - http://toxsci.oxfordjournals.org/content/149/2/275.full?sid=10cbf446-05be-4e37-8b03-581affe9388a (Rigor and Reproducibility in Big Data)
Bios Buzz

“Sweetheart, my neural net predicts that you and I are 98.9% compatible. Will you be my Valentine?”

CARTOONS SOURCE:
- https://s-media-cache-ak0.pinimg.com/236x/77/41/2a/77412a3e2955ab15694a322076113851.jpg
- https://s-media-cache-ak0.pinimg.com/564x/65/22/15/6522151db4786bdb73aa43dcf130d30b.jpg