### Daniel E. Cook

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### **Education**

Northwestern University

Ph.D. Graduate Student – Interdisciplinary Program in Biological Sciences (IBiS)

University of Iowa

B.S. Biology with Honors

Evanston, IL

Expected 2017

Iowa City, IA

May 2010

### **Experience**

#### Andersen Lab, Northwestern University

Evanston, IL

Graduate Student

2014-Present

- O Developed Genome-wide association portal for C. elegans community.
- o Developed bioinformatic pipelines population resequencing analysis of *C. elegans*.
- o Creation and maintainance of laboratory website.

#### Ober Lab, University of Chicago

Chicago, IL

Research Assistant

2012-2013

- Assisted with development of databases for phenotypic and genotypic data.
- o Helped disclose carrier status to individuals.

### Murray Lab, University of Iowa

Iowa City, IL

Research Assistant 2009-2012

- o Wrote and published statistical, data-management, and graphing programs.
- o Conducted geographic analysis of Iowa newborn screen data.
- o Collected Human Placental tissue for genetic, epigenetic, and expression studies.

#### Skills

Projects: GitHub.com/danielecook Package Development: R, Python

Programming: Python, Bash, R, Stata, Travis C.I. Database: SQL, BigQuery, Google Datastore

Web: HTML, Javascript, CSS, Django, Flask, Genetic Analysis: BWA, Samtools, Bcftools, Plink,

Mediawiki, Wordpress Galaxy

Cloud/Cluster: AWS, Google Cloud, Slurm

General: LATEX, sketch

#### **Professional Activities**

- o 2015 NSF-GRFP data workshop
- o 2015 Teaching Assistant, Genetic Analysis
- 2014 Contributed to development of computational bootcamp for incoming graduate students within the IBiS program.

### **Honors and Awards**

- o 2015 IBiS Travel Award (\$975)
- o 2014 National Science Foundation Graduate Research Fellowship
- 2006 University of Iowa National Scholars Award

### 2016 The Genetic Basis of Natural Variation in *Caenorhabditis elegans* Telomere Length

Cook, Daniel C, Stefan Zdraljevic, Robyn E Tanny, Beomseok Seo, David D Riccardi, Luke M Noble, Matthew V Rockman, Mark J Alkema, Christian Braendle, Jan E Kammenga, John Wang, Leonid Kruglyak, Marie-Anne Félix, Junho Lee, and Erik C Andersen *Genetics*. PMID: 27449056 DOI: 10.1534/genetics.116.191148.

## 2015 DYRK1A controls the transition from proliferation to quiescence during lymphoid development by destabilizing Cyclin D3

Thompson, Benjamin J, Rahul Bhansali, Lauren Diebold, **Cook, Daniel E**, Lindsay Stolzenburg, Anne-Sophie Casagrande, Thierry Besson, Bertrand Leblond, Laurent Désiré, and Sébastien Malinge

The Journal of experimental medicine. PMID: 26008897 DOI: 10.1084/jem.20150002.

### 2013 The heritability of metabolic profiles in newborn twins.

Alul, Farah Y, Cook, Daniel E, Oleg a Shchelochkov, Lauren G Fleener, Stanton L Berberich, Jeffrey C Murray, and Kelli K Ryckman

Heredity 110.3. PMID: 23149456 DOI: 10.1038/hdy.2012.75.

### Generating Manhattan plots in Stata

**Cook, Daniel E**, Kelli R Ryckman, and Jeffrey C Murray *Stata Journal* 13.2.

### Clinical and environmental influences on metabolic biomarkers collected for newborn screening

Ryckman, Kelli K., Stanton L. Berberich, Oleg a. Shchelochkov, **Cook, Daniel E.**, and Jeffrey C. Murray

Clinical Biochemistry 46.1-2. PMID: 23010448 DOI: 10.1016/j.clinbiochem.2012.09.013.

### The influence of maternal disease on metabolites measured as part of newborn screening

Ryckman, Kelli K, Oleg A Shchelochkov, Daniel E Cook, Stanton L Berberich, Sara Copeland, John M Dagle, and Jeffrey C Murray

The Journal of Maternal-Fetal & Neonatal Medicine 26.14. PMID: 23550828 DOI: 10.3109/14767058.2013.791267.

# 2012 Replication of clinical associations with 17-hydroxyprogesterone in preterm newborns

Ryckman, Kelli K., **Cook, Daniel E.**, Stanton L. Berberich, Oleg a. Shchelochkov, Susan K. Berends, Tamara Busch, John M. Dagle, and Jeffrey C. Murray

Journal of Pediatric Endocrinology and Metabolism 25.3-4. PMID: 22768660 DOI: 10.1515/jpem-2011-0456.

### **Presentations**

- 2015 Genome-Wide and Species-Wide Variation in *C. elegans* Reveals Association of Telomere Length With Population Differences in *pot-2*Talk International Worm Meeting 2015, UCLA.
- **2012 Mapping Newborn Screen Data: A Geographic Exploration** Poster Pediatric Academic Societies Meeting, Boston, MA.