

Brittany N. Lasseigne, Ph.D.

601 Genome Way, Huntsville, AL 35806

Phone: (256) 327-5264, (210) 332-2953; Twitter: @bnlasse

Email: blasseigne@hudsonalpha.org; Website: www.lasseigne.org

Current Position

2018- Senior Scientist, HudsonAlpha Institute for Biotechnology, Huntsville, AL
Research focus: Developing frameworks for multidimensional genomics data integration
K99 NIH Pathway to Independence Award, NHGRI, (16 May 2018-30 April 2019):
“Integrating multidimensional genomic data to discover clinically-relevant predictive models.” (Mentor: Richard M. Myers, Ph.D., Co-Mentor: Greg M. Cooper, Ph.D.)
Certified Software and Data Carpentry Instructor (June 2017-present) and member of the Software Carpentry Curriculum Advisory Committee (April 2018-present)
Faculty Advisor, International Society for Computational Biology Regional Student Group (April 2017-present)

Education and Research Experience

2014-2017 Postdoctoral Fellow, HudsonAlpha Institute for Biotechnology, Huntsville, AL
Advisor: Richard M. Myers, Ph.D.
Research focus: Applying genetics and genomics to complex human diseases
William J. Maier III Fellowship in Cancer Prevention, Prevent Cancer Foundation (15 January 2016-14 January 2018): “Development of an early diagnostic urine test for kidney cancer.”

2009-2013 Ph.D., Biotechnology Science and Engineering interdisciplinary program
The University of Alabama in Huntsville, Huntsville, AL
Research focus: DNA methylation, copy number variation, and microsatellite instability in cancer
Ph.D. Research, HudsonAlpha Institute for Biotechnology, Huntsville, AL
Advisor: Richard M. Myers, Ph.D. (HudsonAlpha); Committee: Drs. James Brooks (Stanford), Devin Absher (HudsonAlpha), Joseph Ng. (UAHuntsville), Debra Moriarity (UAHuntsville)
Dissertation: *Analysis of DNA methylation and copy number variation in renal cell carcinoma*

2004-2008 B.S., Biological Engineering, Cum Laude, Phase I Honors
Mississippi State University, Starkville, MS

Research Assistant, Mississippi State University, Starkville, MS (Fall 2005-Spring 2008)
Laboratory of James Warnock, Ph.D. (Biological Engineering Department)
Research focus: Biofuel production

Research Intern, The University of Miss. Medical Center, Jackson, MS (Summer 2005)
Laboratory of John Hall, Ph.D. (Physiology and Biophysics Department)
Research focus: Obesity induced renal tubule oxidative and ER stress

2002-2004 High School Diploma, Mississippi School for Math and Science, Columbus, MS

Research Intern, Mississippi State University, Starkville, MS (Summer 2003- Spring 2004)
Research advisor: Ms. Emily Easterling (Chemical Engineering Department)
Research focus: Bacterial hydrocarbon bioremediation

Research Intern, Mississippi State University, Starkville, MS (January 2003-May 2003)
Laboratory of Mark Lawrence, D.V.M., Ph.D. (College of Veterinary Medicine)
Research focus: Catfish viruses

Funding: Principal Investigator

- **K99 NIH Pathway to Independence Award**, NHGRI, (16 May 2018-30 April 2019), \$112,117 total costs: “Integrating multidimensional genomic data to discover clinically-relevant predictive models.”
- **NVIDIA GPU Grant Award**, Nvidia (17 January 2018), Nvidia GeForce TitanXp GPU (equipment only): “Integrating multidimensional data with deep neural networks to discover clinically-relevant predictive models.”
- **Cancer Genomics Cloud Collaborative Project Award**, Seven Bridges (5 February 2017-1 September 2017), \$3,000 cloud credits: “Dosage effects, context dependency, and tissue specificity of tumor suppressor genes.”
- **William J. Maier III Fellowship in Cancer Prevention**, Prevent Cancer Foundation (15 January 2016-14 January 2018), \$80,000 direct costs: “Development of an early diagnostic urine test for kidney cancer.”

Publications

Gelfman S, Dugger SA, Moreno CAM, Ren Z, Wolock CJ, Schneider NA, Phatnani H, Cirulli ET, **Lasseigne BN**, Harris T, Maniatis T, Rouleau GA, Brown Jr RH, Gitler AD, Myers RM, Petrovski S, Allen A, Harms MB, Goldstein DB. Regional collapsing of rare variation implicates specific genic regions in ALS. **bioRxiv (in submission for peer review)**. 2018. <https://doi.org/10.1101/375774>

Lasseigne BN* and Brooks JD. The role of DNA methylation in renal cell carcinoma (Invited Review). **Molecular Diagnosis & Therapy**. 2018;22(4):431-442. ***Corresponding Author**

Nicolas A, Kenna KP, Renton AE, Ticozzi N, ... **Lasseigne BN** (ALS Sequencing Consortium member), ... Chiò A, Shaw CE, Traynor BJ, Landers JE. Genome-wide Analyses Identify *KIF5A* as a Novel ALS Gene. **Neuron**. 2018;97(6):1268-1283. PMID: 29566793

Ramaker RC*, Bowling KM*, **Lasseigne BN***, Hagenauer MH, Davis NS, Gertz J, Cartagena PM, Walsh DM, Vawter MP, Schatzberg AF, Barchas JD, Watson SJ, Bunney BG, Akil H, Bunney WE, Li JZ, Cooper SJ, Myers RM. Post-mortem molecular profiling of three psychiatric disorders. **Genome Medicine**. 2017;9(1):72. PMID: 28754123 (also on biorxiv: <http://www.biorxiv.org/content/early/2017/06/02/061416>). ***Equal Contribution**

Ramaker RC*, **Lasseigne BN***, Hardigan AA, Palacio L, Gunther DS, Myers RM, Cooper SJ. RNA sequencing-based cell proliferation analysis across 19 cancers identifies a subset of proliferation-informative cancers with a common survival signature. **Oncotarget**. 2017;8(24):38668-38681. PMID: 28454104 (also on biorxiv: <http://www.biorxiv.org/content/early/2016/07/10/063057>). ***Equal Contribution**

Kirby MK, Ramaker RC, Roberts BS, **Lasseigne BN**, Gunther DS, Burwell TC, Davis NS, Gulzar ZG, Absher DM, Cooper SJ, Brooks JD, Myers RM. Genome-wide DNA methylation measurements in prostate tissues uncovers novel prostate cancer diagnostic biomarkers and transcription factor binding patterns. **BMC Cancer**. 2017;17(1):273. PMID: 28412973.

Alonso A, **Lasseigne BN**, Williams K, Nielsen J, Ramaker RC, Hardigan AA, Johnston B, Roberts BS, Cooper SJ, Marsal S, Myers RM. aRNApipe: A balanced, efficient and distributed pipeline for processing RNA-seq data in high performance computing environments. **Bioinformatics**. 2017;pii:btx023. PMID: 28108448 (also on biorxiv: <http://www.biorxiv.org/content/early/2017/01/20/060277>).

McDaniel JM, Varley KE, Gertz J, Savic DS., Roberts BS, Bailey SK, Shevde LA, Ramaker RC, **Lasseigne BN**, Kirby MK, Newberry KM, Partridge EC, Jones AL, Boone B, Levy SE, Oliver PG, Sexton KC, Grizzle WE, Forero A, Buchsbaum DJ, Cooper SJ, Myers RM. Genomic regulation of invasion by STAT3 in Triple Negative Breast Cancer. **Oncotarget**. 2017;8(5):8226-38. PMID: 28030809.

Ghatalia P*, Yang ES*, **Lasseigne BN***, Ramaker RC, Cooper SJ, Chen D, Wei S, Guru AS, Zhao A, Cooper T, Della Manna DL, Naik G, Myers RM, Sonpavde G. Kinase gene expression profiling of metastatic clear cell renal cell carcinoma tissue identifies potential new therapeutic targets. **PLOS ONE**. 2016;11(8):e0160924. PMID: 27574806. ***Equal Contribution**

Cirulli ET*, **Lasseigne BN***, Petrovski S, Sapp PC, ... Biogen Idec ALS Sequencing Consortium Members, ... Cooper GM, Harris T, Myers RM, Goldstein DB. Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways. *Science*. 2015;347(6229):1436-41. PMID: 25700176. ***Equal Contribution**

Lasseigne BN, Burwell TC, Patil MA, Absher DM, Brooks JD, Myers RM. DNA methylation profiling reveals novel diagnostic biomarkers in renal cell carcinoma. *BMC Medicine*. 2014;12:235. PMID: 25472429.

Invited Presentations, Seminars, and First Author Presentations Selected from Abstracts

- **Invited Seminar, Chemistry Seminar Series at Oakwood University**, Huntsville, AL (15 February 2018): “Frameworks for multidimensional data integration in complex human disease.”
- **Invited Seminar, UAB Informatics Institute Colloquia**, Birmingham, AL (13 October 2017): Lasseigne BN. “Frameworks for multidimensional data integration in complex human diseases.”
- **Invited Seminar, Chemistry Seminar Series at Oakwood University**, Huntsville, AL (21 September 2017): “Applying machine learning to complex human disease.”
- **Selected Presentation, Biotweeps Twitter Conference 2017**, Online (28-30 June 2017): Lasseigne BN. “RNA sequencing-based cell proliferation analysis across 19 cancers identifies a subset of proliferation-informative cancers with a common survival signature.”
- **Invited Presentation, Women Who Code-Huntsville Chapter Series**, Huntsville AL (27 June 2017): Lasseigne BN. “An Introduction to Machine Learning and Genomics.”
- **Invited Seminar, Chemistry Seminar Series at Oakwood University**, Huntsville, AL (9 February 2017): “Applying genomics to complex human diseases.”
- **Invited Presentation, University of Alabama at Birmingham & HudsonAlpha 11th Annual Genetics Scientific Retreat**, Lake Guntersville, AL (18-19 November 2016): Lasseigne BN, Cooper GC, Cooper SJ, Myers RM. “Genomic instability phenotypes and predicting survival in cancer.”
- **Invited Seminar, Chemistry Seminar Series at Oakwood University**, Huntsville, AL (8 September 2016): “Genome-based human disease research.”
- **Selected Late Breaking Research Presentation, Intelligent Systems for Molecular Biology International Society for Computational Biology Annual Conference**, Orlando, FL (8-12 July 2016): Lasseigne BN, Ramaker RC, Palacio L, Gunther DS, Cooper SJ, Myers RM. “RNA sequencing-based cell proliferation analysis across 19 cancers identifies a subset of proliferation-informative cancers with a common survival signature.”
View here: https://www.iscb.org/cms_addon/multimedia/flvmedia.php?i=3003
- **Invited Presentation, WellStone Behavioral Health**, Huntsville, AL (17 February 2015): Lasseigne, BN and Bowling, KB. “Applying next generation sequencing to psychiatric disorders.” (1 hour CE credit)
- **Invited Presentation, Alabama Mental Health Center Clinical Directors**, Montgomery, AL (13 November 2014): Lasseigne, BN and Bowling, KB. “Applying next generation sequencing to psychiatric disorders.”
- **Selected Presentation, University of Alabama at Birmingham & HudsonAlpha 9th Annual Genetics Scientific Retreat**, Huntsville, AL (7 November 2014): Lasseigne BN, Cirulli ET, Petrovski S, Sapp PC, ... Biogen Idec ALS Sequencing Consortium Members, ... Cooper GM, Harris T, Goldstein DB, Myers RM. “Exome sequencing in ALS identifies new risk genes and pathways.”
- **Invited Presentation, Genetic Degrees of Separation Symposium**, Huntsville, AL (18 April 2014): “Genetic Degrees of Separation: Current Myers Lab”
- **Department Seminar, HudsonAlpha Seminar Series**, Huntsville, AL (23 October 2013): Lasseigne BN. “Novel DNA methylation biomarkers for renal cell carcinoma.”
- **Department Seminar, HudsonAlpha Seminar Series**, Huntsville, AL (6 October 2010): Lasseigne BN. “Copy number variation in renal cell carcinoma.”
- **Selected Presentation, The University of Alabama in Huntsville Bioretreat**, Rogersville, AL (13-14 November 2009): Lasseigne BN, Absher DM, Brooks JD, Myers RM. “DNA methylation in renal cell carcinoma.”
- **Invited Lecture, Mississippi School for Math and Science Day**, Columbus, MS (19 September 2009): Lasseigne BN. “Genomics Research and Graduate School.”

First Author Poster Presentations

- **University of Alabama at Birmingham & HudsonAlpha 12th Annual Genetics Scientific Retreat**, Huntsville, AL (27 October 2017): Lasseigne BN, Cooper SJ, Cooper GM, Myers RM. “Genomic instability phenotypes in multidimensional genomic cancer studies.”
- **American Society of Human Genetics Annual Meeting**, Orlando, FL (17-21 October 2017): Lasseigne BN, Cooper SJ, Cooper GM, Myers RM. “Genomic instability phenotypes in multidimensional genomic cancer studies.”
- **Intelligent Systems for Molecular Biology International Society for Computational Biology Annual Conference**, Prague, CZ (21-25 July 2017): Lasseigne BN, Cooper SJ, Cooper GM, Myers RM. “Genomic instability phenotypes in multidimensional genomic cancer studies.”
- **Reviewer’s Choice Abstract, American Society of Human Genetics Annual Meeting**, Vancouver, BC (18-22 October 2016): Lasseigne BN, Ramaker RC, Bowling KM, Cooper SJ, Myers RM. “Postmortem transcriptional profiling of three psychiatric disorders reveals widespread dysregulation of cell-type associated transcripts and novel disease-related transcription changes.”
- **Intelligent Systems for Molecular Biology International Society for Computational Biology Annual Conference**, Orlando, FL (8-12 July 2016): Lasseigne BN, Ramaker RC, Bowling KM, Cooper SJ, Myers RM. “Postmortem transcriptional profiling of three psychiatric disorders reveals widespread dysregulation of cell-type associated transcripts and novel disease-related transcription changes.”
- **American Society of Human Genetics Annual Meeting**, Baltimore, MD (6-10 October 2015): Lasseigne BN, Ramaker RC, Kirby MK, Gunther DS, Cooper SJ, Myers RM. “Characterization of differential DNA methylation in transcription factor binding sites across human cancers.”
- **American Society of Human Genetics Annual Meeting**, San Diego, CA (18-22 October 2014): Lasseigne BN, Burwell TC, Patil MA, Absher DM, Brooks JD, Myers RM. “DNA Methylation Profiling Reveals Novel Diagnostic Biomarkers in Renal Cell Carcinoma.”
- **University of Alabama at Birmingham Comprehensive Cancer Center 17th Annual Research Retreat**, Birmingham, AL (6 October 2014): Lasseigne BN, Burwell TC, Patil MA, Absher DM, Brooks JD, Myers RM. “DNA Methylation Profiling Reveals Novel Diagnostic Biomarkers in Renal Cell Carcinoma.”
- **Chemistry in Medicine Madison Marshall Symposium**, Huntsville, AL (17 May 2011): Lasseigne BN, Absher DM, Brooks JD, Myers RM. “DNA methylation and copy number variation in the mismatch repair pathway in renal cell carcinoma.”
- **HudsonAlpha Spring Symposium Scientific Conference for Genetics and Genomics Research**, Huntsville, AL (6 April 2011): Lasseigne BN, Absher DM, Brooks JD, Myers RM. “DNA methylation and copy number variation in the mismatch repair pathway in renal cell carcinoma.”
- **The University of Alabama in Huntsville Bioretreat**, Huntsville, AL (1-2 October 2010): Lasseigne BN, Absher DM, Brooks JD, Myers RM. “Copy number variation in renal cell carcinoma.”
- **HudsonAlpha Spring Symposium Scientific Conference for Genetics and Genomics Research**, Huntsville, AL (30 March 2010): Lasseigne BN, Jain P, Sherlock G, Absher DM, Brooks JD, Myers RM. “The epigenetics of renal cell carcinoma.”

Teaching and Supervising Experience

- **Content Developer and Instructor, BioTrain Computational Biology Bootcamp**, HudsonAlpha Institute for Biotechnology, Huntsville, AL (4 June 2018): Unix shell, R programming, keeping a computational lab notebook, getting help, and continued learning: <https://www.lasseigne.org/post/2018-06-04-biotraincompbioworkshop2018/>
- **Co-Lead Instructor, Software Carpentry Workshop**, George Washington University, Washington D.C. (8-9 March 2018): Unix shell, Git version control, R programming: <https://rrlove.github.io/2018-03-08-gwu/>
- **Content Developer and Instructor, Undergraduate Workshop**, International Society for Computational Biology Student Regional Group – Southeast USA Computational Biology Symposium, Columbia, SC (8-9 December 2017): “A hands-on introduction to machine learning.”
- **Invited Lecturer, Cancer Genomics**, HudsonAlpha/UAB/UAH Genomics Graduate Course, Huntsville, AL (15 April 2016): “Applying the genomics toolkit to cancer research.”

- **Invited Lecturer, Genetics and Evolution BYS 219**, The University of Alabama in Huntsville, Huntsville, AL (9 April 2015): “Genetics and genomics of cancer”
- **Research Mentor, HudsonAlpha Education Outreach BioTrain Undergraduate Summer Research Program**, HudsonAlpha, Huntsville, AL (2012-2015)
 - Jennifer Fisher: “Transcription Factor Enrichment and Gene Pathway Analysis of Human Cancers” (2018)
 - David Gunther & Laura Palacio: “The Role of Cell Proliferation Across Human Cancers” (2015)
 - David Gunther: “Promoter Motif Analysis of Differentially Expressed Genes in Human Diseases” (2014)
 - Grace Cain: “Microsatellite Instability in Non-Clear Cell Renal Cell Carcinoma” (2012)
- **Guest Lecturer, HudsonAlpha Education Outreach Program**, Huntsville, AL (2011-present).
 - GTAC: Advanced Concepts Summer Professional Development Academy (28 June 2018): “Introduction to Machine Learning with Genomic Data Applications”
 - Bob Jones HS AP Biology Field Trip (30 November 2017): “Machine Learning and Cancer”
 - New Century HS Bioinformatics Class (29 August 2017): “Introduction to Biology with Computers”
 - Genetic Technology for All Classrooms (GTAC) Advanced Concepts Workshop (11 July 2017): “Genome-Based Cancer Research”
 - HudsonAlpha High School Camp (7 June 2017): “Genome-based cancer research”
 - Clay County High School Career Panel (26 April 2017)
 - Oakwood Adventist Academy A&P Class (6 April 2017): “Single- to Multi-omic Genome Based Human Disease Research”
 - HudsonAlpha Virtual Field Trip Program (30 January 2017): “Genome-based ALS research.”
 - Madison County High School AP Biology Field Trip (25 January 2017): “Applying Genomics to Psychiatric Disease Research”
 - Shades Valley AP Biology (12 October 2016): “Genetics Research in Neurodegenerative Disease”
 - Masters 7 Leadership Class Guest Speaker (1 March 2016): “Liquid Biopsies in Kidney Cancer”
 - Providence Classical School FT (5 May 2015): “Applying Genomics to Human Disease Research”
 - Genetic Resources to Empower Alabama Teachers (GREAT) Workshop (15 April 2015): “Applying Genomics to Human Disease Research”
 - Bob Jones AP Biology Field Trip (18 March 2015): “Applying Genomics to Human Diseases”
 - MSMS (16 October 2014): “Discovering Biomarkers with Genomics for Kidney Cancer”
 - Genetic Technology for All Classrooms (GTAC) Workshop (17-18 June 2014): “Applying Genomics to Cancer at HudsonAlpha” & “Applying Genomics to Neurological Disease at HudsonAlpha”
 - High School Biology Field Trip (18 March 2014): “Genetics of ALS”
 - Sparkman High School Field Trip (13 March 2014): “Genomics and Cancer Research”
 - Hewitt Trussville High School Field Trip (14 January 2014): “Copy Number Variation in Kidney Cancer”
 - Bob Jones AP Biology Field Trip (14 November 2013): “Genomics of Kidney Cancer”
 - HudsonAlpha High School Summer Camp (16 July 2013): “DNA Methylation in Kidney Cancer”
 - Fort Payne High School Field Trip (3 May 2013): “Novel Diagnostic Biomarkers in Kidney Cancer”
 - Lego Competition Expert Volunteer Panel (14 October 2010)
- **Graduate Teaching Assistant, Genetics and Evolution BYS 219**, The University of Alabama in Huntsville, Huntsville, AL (Fall 2008 and Spring 2009 semesters)
- **Tutor, Mathematics (Algebra I & II, Geometry, Pre-Calculus, Calculus I & II)**, Yorktown, VA and Columbus, MS (2000-2004)

Professional, Leadership, and Outreach Activities

- **Member, Software Carpentry Curriculum Advisory Committee** (April 2018-present)
- **Organizer, International Society for Computational Biology Student Regional Group–Southeast USA Computational Biology Symposium**, University of South Carolina, Columbia, SC (8-9 December 2017).
- **Selected Contributor, Biotweeps Twitter Takeover**, Online (13-18 November 2017).

- **Certified Instructor, Software and Data Carpentry** (July 2017-present)
- **Selected Attendee, Data Intensive Biology Summer Institute Instructor Training in Software Carpentry and Data Carpentry**, UC Davis, Davis, CA (19-23 June 2017).
- **Faculty Advisor, International Society for Computational Biology Regional Student Group Southeast** (April 2017-present)
- **Invited Member, Multiple Sclerosis Leadership Class Advisory Council**, Huntsville, AL (2017)
- **Guest Speaker, UAH and American Association of University Women Tech Trek Professional Development Night**, Huntsville, AL (6 June 2016)
- **Attendee, PACE Human Capital (Professionalism and Leadership) Course**, Montgomery, AL (27 February 2015)
- **Ad Hoc Reviewer: PLOS Genetics, Genome Research, Cancer Informatics, Disease Markers** (2015-present)
- **Consultant**, ChemoCentryx (2014-2015)
- **Vice President**, Graduate Student Association, Huntsville, AL (2009-2010)
- **System Team Lead**, MSU Unmanned Aerial Systems Team, Starkville, MS (2007-2008)
1st place, Association for Unmanned Vehicle Systems International Student UAV Competition (2008)

Software

- **Author and Co-creator, ProliferativeIndex R package (Proliferative index analysis in RNA-seq data)**. Available here: <https://cran.r-project.org/web/packages/ProliferativeIndex/index.html>
- **Co-developer, aRNAPipe (RNA-seq processing pipeline)**. Available here: <https://github.com/HudsonAlpha/aRNAPipe>

Patent Applications

- **USPTO Application #20150218643: Lasseigne BN, Myers RM, Absher D, Brooks JD**
“Differential methylation level of CpG loci that are determinative of kidney cancer”

Awards and Honors

- 2018** A Cloud Guru Award, Women Who Code (1 year full-access membership)
- 2016** Huntsville Multiple Sclerosis Society Leadership Class Member, Huntsville, AL
- 2016** Travel Award Recipient, Postdoctoral Preparation Institute: Career Transitions, Bethesda, MD
- 2013** Dean’s Scholarship, The University of Alabama in Huntsville, Huntsville, AL
- 2009** Graduate Dean’s List, The University of Alabama in Huntsville, Huntsville, AL
- 2007** President’s List, Mississippi State University, Starkville, MS
- 2007** Mississippi Biomass Council Student Scholarship, Mississippi
- 2006-2008** Gamma Beta Phi Honor Society Member, Mississippi State University, Starkville, MS
- 2005, 2007** Dean’s List, Mississippi State University, Starkville, MS
- 2004-2008** Freshmen Academic Excellence Scholarship, Mississippi State University, Starkville, MS
- 2004-2008** Hosmer Engineering Excellence Scholarship, Mississippi State University, Starkville, MS
- 2004-2008** Honors College Scholarship, Mississippi State University, Starkville, MS
- 2004** First Command Scholarship, Columbus Air Force Base, MS
- 2004** National Merit Scholar Finalist

Current Professional Association Memberships

- 2017-** Women Who Code (Huntsville Chapter)
- 2016-** International Society for Computational Biology
- 2016-** Association for Women in Science
- 2012-** The American Society of Human Genetics

References

Richard Myers, PhD (Advisor/Mentor/Collaborator)

President, Science Director and Faculty Investigator at HudsonAlpha Institute for Biotechnology
601 Genome Way, Huntsville, AL 35806
rmyers@hudsonalpha.org, (256) 327-0431

Greg Cooper, PhD (Co-Mentor/Collaborator)

Faculty Investigator at HudsonAlpha Institute for Biotechnology
601 Genome Way, Huntsville, AL 35806
gcooper@hudsonalpha.org, (256) 327-9490

Jim Brooks, MD (Collaborator)

Professor in Department of Urology, Stanford University Medical Center
300 Pasteur Drive, Stanford, California, 94305
jbrooks1@stanford.edu, (650) 725-5544

David Goldstein, PhD (Collaborator)

Director of the Institute for Genomic Medicine, Columbia University
P&S 630 West 168th Street Suite 11-101 New York, NY 10032
dg2875@cumc.columbia.edu, (212) 305-0932

Sara Cooper, PhD (Collaborator)

Faculty Investigator at HudsonAlpha Institute for Biotechnology
601 Genome Way, Huntsville, AL 35806
sjcooper@hudsonalpha.org, (256) 327-9491

Greg Barsh, MD, PhD (Head of Faculty at HudsonAlpha)

Faculty Investigator at HudsonAlpha Institute for Biotechnology and Professor Emeritus at Stanford University
601 Genome Way, Huntsville, AL 35806
gbarsh@hudsonalpha.org, (256) 327-5266