

**Jessica Johnson**  
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## EDUCATION

**Pratt Institute**, Brooklyn, NY: August 2009 – May 2011  
*Master of Fine Arts*, New Forms, May 16, 2011  
Cumulative GPA: 4.0

**Duke University**, Durham, NC: August 2002 – May 2006  
*Bachelor of Science*, Biology, May 14, 2006; Certificate: Visual Arts  
Cumulative GPA: 3.4 Certificate GPA: 4.0

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## EXPERIENCE

**Mount Sinai School of Medicine, Division of Psychiatric Genomics, Sklar Laboratory** March 2012 - Present  
*Laboratory Supervisor* New York, NY

- Responsible for the set-up and maintenance of the Sklar lab in the Division of Psychiatric Genomics. The focus of the lab is to understand the underlying genetic causes of debilitating psychiatric diseases such as schizophrenia and bipolar disorder. Projects include GWAS and Whole-Exome sequencing for multiple Schizophrenia studies, and production of induced Pluripotent Stem cell lines from fibroblasts collected from patients with schizophrenia and bipolar disorder.
- Project manager for the CommonMind Consortium, a large consortium whose goal is to generate and analyze large-scale genomic data from human subjects with neuropsychiatric disease. Responsible for coordination of all CommonMind sample delivery, storage, sequencing, genotyping and tracking, including PsychENCODE project tracking. Performed RNA and DNA isolation from homogenized brain tissue for RNAseq and genotyping (+2,000 samples).
- Project manager for the PsychChip genotyping project. Responsible for coordination of all sample delivery, storage and tracking for over 15,000 DNA samples being genotyped at the Mount Sinai Genomics Core on the Illumina PsychChip.
- Responsible for the receipt, tracking and isolation of DNA, RNA, plasma and serum from blood for 5 different studies.
- Responsible for culturing and freezing fibroblast cell lines from patient skin biopsies for two studies, to be later used for the creation of iPSC. Also responsible for culturing human and mouse cell lines for laboratory DropSeq experiments.
- Responsible for all ordering of laboratory supplies and machinery, as well as maintenance of all laboratory equipment, and including setting up new equipment for future projects.
- Responsible for the tracking, shipment and storage of over 60,000 DNA, RNA, blood and tissue samples. Responsible for the freezer alarm monitoring software and virtual freezer sample tracker for the lab.
- Responsible for training new lab members in lab safety and laboratory-specific SOPs.

**Memorial Sloan Kettering Cancer Center, Sloan Kettering Institute, Mayr Laboratory** June 2011 – March 2012  
*Research Technician II* New York, NY

- Performed experiments to study the regulation of gene expression in mammalian cells with an emphasis on the biological consequences of Alternative Polyadenylation (APA) in normal, stem, and cancer cells. Responsibilities include maintaining and harvesting cell lines with subsequent RNA and mRNA extraction/purification, Fluorescence-Activated Cell Sorting (FACS), Northern blots, cDNA synthesis, cloning and transformation, mini-, midi-, and maxi-prep of plasmids, PCR, qPCR.
- Was responsible for the maintenance of laboratory stocks, buffers and other supplies, as well as for making sure that the laboratory complied with radioactive, chemical and fire safety protocols.

**Ronald Feldman Fine Arts** June 2010 – May 2011  
*Intern to the Archivist* New York, NY

- Digitally catalogued the entire gallery library and digitally archived gallery images by scanning slides, transparencies and photographs into Photoshop, where they were subsequently colour-corrected and organized.
- Created and edited Press Kits for the gallery's artists.

**Duke University, Duke Center for Human Genetics** June 2006 – August 2009  
*Research Technician II* Durham, NC

- Performed Comparative Genomic Hybridization (CGH) experiments using microarrays to identify candidate genes involved in Autism Spectrum Disorder.
- Performed high-throughput genotyping of SNPs on Illumina linkage panels for individuals with Osteoarthritis and performed sequencing of candidate genes to identify novel SNPs in a family-based study for Osteoarthritis.

- Carried out Taqman allelic discrimination of SNPs for the HABC, AGENDA, CATHGEN, and GENECARD projects (over 1,000 SNPs on 30,000 samples); performed high-throughput genotyping of candidate genes involved in Atherosclerosis and Sarcopenia.
- Carried out bisulfite conversion, cloning and sequencing of *E. coli* clones to study methylation patterns of aortic smooth muscle cells.
- Performed basic lab tasks including the following: gel electrophoresis, PCR, Sanger sequencing, DNA and RNA isolation, making reagents, etc.

**National Institute of Environmental Health Sciences (NIEHS), Mason Laboratory**  
Research Assistant

May 2005 – August 2005  
Research Triangle Park, NC

- Studied the expression of telomeric genes in *Drosophila melanogaster* using RT PCR, DNA and RNA extraction, cDNA synthesis, chromatin immunoprecipitation, nuclei isolation and southern blots.
- Was responsible for maintaining fly colonies and fly breeding.

**Duke University, Dong Laboratory**  
Research Assistant

June 2004 – June 2006  
Durham, NC

- Investigated cross-talk in the SAR pathway in *Arabidopsis thaliana* by performing a mutant screen and using DNA and RNA extraction/isolation, PCR, Northern blots, plant infection and cloning techniques.

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#### GRANTS/AWARDS

**Collaboration Development Grant**, Duke University, February 2014  
**Award for Academic Excellence**, Pratt Institute, May 15, 2011  
**Mary Duke Biddle Foundation Visual Arts Award**, Duke University, May 13, 2006  
**Undergraduate Research Support Grant**, Duke University, January 2006

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#### EXHIBITIONS/PUBLICATIONS

- 2015 **Exposition Art & Science**, Group Show, Curie Museum, Institut Curie, Paris, FR: May 16 – October 31, 2015.  
**Translating the Exome**, Solo Show, Brown Gallery, Duke University, Durham, NC: March 20 – April 20, 2015.
- 2013 **Hot Wood Resident Artists Show**, Group Show, Hot Wood Arts Gallery, Brooklyn, NY: November – December, 2013.  
**Curate NYC 2013**, Group Show, Rush Arts Gallery, New York, NY: October 24 – November 2, 2013.  
**Crumbs of Light: Glitter, Sequins & Tinsel in Contemporary Art**, Group Show, The Oak Room Gallery, Columbus, OH: October 5 – 31, 2013.  
**2013 Governor's Island Art Fair**, Governor's Island, New York, NY: September 7 – 29, 2013.  
**Hot Wood Volume VI: Winter Masquerade Ball**, Group Show, Hot Wood Arts Gallery, Brooklyn, NY: February 23 – March 31, 2013.
- 2012 **Hot Wood Volume V: Resident Artists Show**, Group Show, Hot Wood Arts Gallery, Brooklyn, NY: November 10 – December 16, 2012.  
**Exogenesis**, Group Show, C.C.C.P. North Light Gallery, Brooklyn, NY: August 31 – September 30, 2012.  
**MATTER**, Group show, Brooklyn Artists Gym, Brooklyn, NY: June 9 – July 9, 2012.  
**The 4<sup>th</sup> Annual Mount Sinai Employee Art Exhibit**, Mount Sinai Hospital, New York, NY: May 9 – May 29, 2012.  
Khan, Suhair, Louise Hohorst, Zahra Khan and Jessica Johnson. **"The New Art Stars"**, Vogue India [Online], February 21, 2012.  
[www.vogue.in/content/new-art-stars](http://www.vogue.in/content/new-art-stars).
- 2011 **Global Art Projects: International Artists at Home and Abroad**, Group show, Broadway Gallery, New York, NY: October 19 – November 7, 2011.  
Artist Lecture for the **Yo! Brooklynites!** Exhibition, Hadas Gallery, Brooklyn, NY: August 17, 2011.  
**Yo! Brooklynites!**, Group show, Hadas Gallery, Brooklyn, NY: July 10 – August 17, 2011.  
**Pratt Fine Art Graduate MFA Exhibition**, Group show, Pratt Manhattan Gallery, New York, NY: May 13 – 27, 2011.  
**Last Dance with the Red Queen**, Solo show, Pratt Studios Gallery, Brooklyn, NY: April 25 – 29, 2011.  
**College Art Association NY Area MFA Exhibition**, Group show, Hunter College, New York, NY: February 9 – April 9, 2011.
- 2010 **TedX 2<sup>nd</sup> Year MFA Pratt Graduate Group Show**, Group show, Steuben Gallery, Pratt Institute, Brooklyn, NY: November 8 – 15, 2010.  
**Fall Semester Pratt MFA Graduate Student Group Show**, Group show, Steuben Gallery, Pratt Institute, Brooklyn, NY: September 2010.
- 2009 **Fall Semester Pratt MFA Graduate Student Group Show**, Group show, Steuben Gallery, Pratt Institute, Brooklyn, NY: September 2009.  
**Genetics!** Solo show, Duke Center for Human Genetics, Duke University, Durham, NC: June 6 – August 17, 2009.
- 2008 **Human Code**, Solo show, Smith Warehouse, Duke University, Durham, NC: November 8 – January 8, 2008.
- 2006 **Visual Poetics**, Group show, Smith Warehouse, Duke University, Durham, NC: April 27 – May 14, 2006.  
**A Human Construction**, Solo show, Smith Warehouse, Duke University, Durham, NC: April 5 – 26, 2006.

Fromer, Menachem, Andrew J. Pocklington, David H. Kavanagh, Hywel J. Williams, Sarah Dwyer, Padhraig Gormley, Lyudmila Georgieva, Elliott Rees, Priit Palta, Douglas M. Ruderfer, Noa Carrera, Isla Humphreys, Jessica S. Johnson, Panos Roussos, Douglas D. Barker, Eric Banks, Vihra Milanova, Seth G. Grant, Ellis Hannon, Samuel A. Rose, Kimberly Chambert, Milind Mahajan, Edward M. Scolnick, Jennifer L. Moran, George Kirov, Aarno Palotie, Stephen A. McCarroll, Peter Holmans, Pamela Sklar, Michael J. Owen, Shaun M. Purcell and Michael C. O'Donovan. **De novo mutations in schizophrenia implicate synaptic networks.** *Nature*, 22 January, 2014.

Created the cover art for Charney, Dennis S., Joseph D. Buxbaum, Pamela Sklar and Eric J. Nestler. "Neurobiology of Mental Illness", 4<sup>th</sup> edition. Oxford University Press, 2013.

Khan, Suhair, Louise Hohorst, Zahra Khan and Jessica Johnson. "The New Art Stars", *Vogue India* [Online], February 21, 2012. [www.vogue.in/content/new-art-stars](http://www.vogue.in/content/new-art-stars).

Nolan, Daniel K., Beth Sutton, Carol Haynes, Jessica Johnson, Jacqueline Sebek, Elaine Dowdy, David Crosslin, David Crossman, Michael H. Sketch, Christopher B. Granger, David Seo, Pascal Goldschmidt-Clermont, William E. Kraus, Simon G. Gregory, Elizabeth R. Hauser, and Svati H. Shah. **Fine mapping of a linkage peak with integration of lipid traits identifies novel coronary artery disease genes on chromosome 5.** *BMC Genetics*, 13:12, February 27, 2012.

Chen, Hsiang-Cheng, Virginia Byers Kraus, Yi-Ju Li, Sarah Nelson, Carol Haynes, Jessica Johnson, Thomas Stabler, Elizabeth R. Hauser, Simon G. Gregory, William E. Kraus, Svati H. Shah. **Genome-wide linkage analysis of quantitative biomarker traits of osteoarthritis in a large, multigenerational extended family.** *Arthritis & Rheumatism*, Vol. 62 (3), 25 Feb. 2010: pp. 781-790.

Gregory, Simon G., Jessica J. Connelly, Aaron J. Towers, Jessica Johnson, Dhani Biscocho, Christina A. Markunas, Carla Lintas, Ruth K. Abramson, Harry H. Wright, Peter Ellis, Cordelia F. Langford, Gordon Worley, G. Robert DeLong, Susan K. Murphy, Michael L. Cuccaro, Antonello Persico and Margaret A. Pericak-Vance. **Genomic and epigenetic evidence for oxytocin receptor deficiency in autism.** *BMC Medicine*, 7:62, 22 October 2009.

Shah, S., N. Freedman, L. Zhang, D. Crosslin, D. Stone, C. Haynes, J. Johnson, S. Nelson, L. Wang, J. Connelly, M. Muehlbauer, G. Ginsburg, D. Crossman, C. Jones, J. Vance, M. Sketch Jr., C. Granger, C. Newgard, S. Gregory, P. Goldschmidt-Clermont, W. Kraus, E. Hauser. **Neuropeptide Y Gene Polymorphisms Confer Risk of Early Onset Atherosclerosis.** *PLoS Genetics*, v. 5 (1): January 2009.

Shah, S., E. Hauser, D. Crosslin, L. Wang, C. Haynes, J. Connelly, S. Nelson, J. Johnson, S. Gadson, C. Nelson. **ALOX5AP variants are associated with in-stent restenosis after percutaneous coronary intervention.** *Atherosclerosis*, Volume 201, Issue 1. November 2008: pp. 148 – 154.

Frydrychova, Radmila Capkova, Harald Biessmann, Alexander Y. Konev, Mikhail D. Golubovsky, Jessica Johnson, Trevor K. Archer, and James M. Mason. **Transcriptional Activity of the Telomeric Retrotransposon HeT-A in *Drosophila melanogaster* is Stimulated as a Consequence of Subterminal Deficiencies at Homologous and Nonhomologous Telomeres.** *Molecular and Cellular Biology*, Vol. 27, no. 13. July 2007: pp. 4991-5001.

Spoel, Steven H., Jessica S. Johnson, and Xinnian Dong. **Regulation of Trade-Offs Between Plant Defenses Against Pathogens with Different Lifestyles.** *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, Vol. 104, no. 47. November 20, 2007: pp. 18842 – 18847.

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#### SKILLS/INTERESTS/GROUPS

Treasurer, Pratt Artists League, Pratt Institute, Brooklyn, NY  
Member of the College Art Association

June 2010 – May 2011  
August 2010 – August 2011

Languages: French, intermediate (writing, reading, speaking)

Computer: Microsoft Office suite, Adobe Design Suite, Applied Biosystems SDS for Taqman and qPCR, GenePix Pro 6.0, Illumina BeadStudio 3.1, Sequencher 4.8, some knowledge of Unix.

Interests: Sculpture, bookmaking, cooking, reading, virology and Environmental and Public Health issues.