

PUBLICATIONS:

“Modelling pathogenesis and treatment of familial dysautonomia using patient-specific iPSCs.” Lee G, Papapetrou EP, Kim H, Chambers SM, Tomishima MJ, Fasano CA, Ganat YM, Menon J, Shimizu F, Viale A, Tabar V, Sadelain M, Studer L. *Nature*. 2009 Sep 17;461(7262):402-6. Epub 2009 Aug 19.

“Precursors with glial fibrillary acidic protein promoter activity transiently generate GABA interneurons in the postnatal cerebellum.” Silbereis J, Cheng E, Ganat YM, Ment LR, Vaccarino FM. *Stem Cells*. 2009 May;27(5):1152-63.

“Fgfr1 is required for cortical regeneration and repair after perinatal hypoxia.” Fagel DM, Ganat Y, Cheng E, Silbereis J, Ohkubo Y, Ment LR, Vaccarino FM. *J Neurosci*. 2009 Jan 28;29(4):1202-11.

“Astroglial cells in development, regeneration, and repair.” Vaccarino FM, Fagel DM, Ganat Y, Maragnoli ME, Ment LR, Ohkubo Y, Schwartz ML, Silbereis J, Smith KM. *Neuroscientist*. 2007 Apr;13(2):173-85. Review.

“Early postnatal astroglial cells generate multilineage precursors and neural stem cells in vivo.” Ganat YM, Silbereis J, Cave C, Ngu H, Anderson JM, Ohkubo Y, Ment LR, Vaccarino FM. *J Neurosci*. 2006 Aug 16;26(33):8609-21.

“Cortical neurogenesis enhanced by chronic perinatal hypoxia.” Fagel DM, Ganat Y, Silbereis J, Ebbitt T, Stewart W, Zhang H, Ment LR, Vaccarino FM. *Exp Neurol*. 2006 May;199(1):77-91.

“Chronic hypoxia up-regulates fibroblast growth factor ligands in the perinatal brain and induces fibroblast growth factor-responsive radial glial cells in the sub-ependymal zone.” Ganat Y, Soni S, Chacon M, Schwartz ML, Vaccarino FM. *Neuroscience*. 112(4):977-91, 2002.

“Stem cells in neurodevelopment and plasticity.” Vaccarino FM, Ganat Y, Zhang Y, Zheng W. *Neuropsychopharmacology*. 25(6):805-15, 2001 Dec.

EDUCATION:

Cornell University - Ithaca, NY

Activities: President of WSH Chess Club, Black Students Association.

BA Degree earned 1999 – Religious Studies/Pre-Med

St. Luke's School - New Canaan, CT

HS student body president; 7 year honor student

Post –bachelorette research education program (PREP) Scholar - Yale Graduate School
2002-2004, developmental neuroscience research.

RESEARCH SKILLS:

Stem cell neural differentiation, stereotactic injections, FACS, southern/western blotting, transgenic engineering, PCR and Q-PCR, perfusion, sectioning, confocal microscopy, stereology, viral production, BAC recombineering.

WORK EXPERIENCE:

October 2000 – August 2002 Research Assistant/Yale University School of Medicine –
230 So. Frontage Rd./SHM I-259, New Haven, CT 06520

Performed research on a hypoxia project where we examined the effects of chronic hypoxia on neurodevelopment. Published two papers, constructed transgenic mouse model, and presented my data at two annual Society for Neuroscience conferences.

June 2000 – October 2000 School Teacher/ Norwalk Public Schools – Norwalk, CT
06854

Taught lessons from math, science, history, and english. Gained valuable experience in getting children's attention and conveying ideas.

January 2000 – June 2000 Stamford Computer Group – 74 West Park Pl., Stamford, CT
06901

E-Commerce Administrator. Web-site management, design, and updates. Buying and selling equipment on the internet. Handling invoices and accounts for B-B leasing. Quality control.

VOLUNTEER EXPERIENCE:

January 2004 - present Science Outreach (Cornell) – TA'g science labs in high schools in Queen's and the Bronx

Brain Awareness Week (Cornell) – Teaching middle school kids about the brain

November 2001 – June 2004 Science Education Outreach Program (Yale University) - Taught basic genetic concepts and techniques (DNA and electrophoresis) to children in New Haven public middle schools.

July 2001- Present Comer Kid's (Yale University) - Annually present a real human brain to children from around the country who need an extra push to become leaders. Planning and development of learning activities.

Feb 2000 – October 2000 Weekend EMT volunteer in Stamford CT.

Summer 1998 AIDS Work of Ithaca, NY. Provided security for concert events.