

Felix Hwei Peng

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Education

New York University 2004–2008
College of Arts and Science – BA, Biology, Chemistry (minor)

Research Experience

New York University School of Medicine, Cancer Institute — Research Technician/Lab Manager for Ramanuj DasGupta Aug 2009– Present

- *Assessed fertility of a loss-of-function of a miRNA cluster found in a screen for regulators of Wg signalling.*
- *Characterised the phenotype of miRNA loss-of-function in the Drosophila germline.*
- *Tested the genetic interactions of loss-of-function with components of the Wg signalling pathway.*
- *Results incorporated in a manuscript under preparation.*

University of Chicago, Committee on Developmental Biology — Rotation project with Edwin L (Chip) Ferguson, PhD Summer 2008
Searched for downstream effectors of JNK activity that promote BMP signalling in Drosophila germline stem cells.

Memorial Sloan Kettering Cancer Center, Sloan Kettering Institute — Undergraduate researcher with Eric Lai, PhD 2007–2008
Characterised miRtrons, a novel class of miRNAs, from computational data.

Columbia University, Department of Molecular Medicine — Undergraduate researcher with Nan Wang PhD, Alan Tall MD 2006–2007
Assisted in research investigating the effect of the ABC transporter ABCG1 on Alzheimer's Disease.

Assisted in research investigating the effect of the ABC transporter ABCG1 on cellular cholesterol efflux. Summer 2005

New York University School of Medicine, Department of Microbiology — Undergraduate Research Volunteer with Martin Blaser, MD Spring 2005
Assisted in research investigating H. pylori.

Skills and Abilities

Laboratory

Drosophila genetics and husbandry. Highly skilled in tissue dissection, handling, and processing for immunofluorescence.

Drosophila cell culture, transient transfection. Advanced confocal and epifluorescence microscopy using Zeiss and Nikon systems.

Subcloning, western blotting, northern blotting, genomic DNA isolation, RNA extraction and processing.

Presentation

Regularly present research progress reports and journal clubs at group meetings.

2011 *Drosophila* Research Conference, San Diego, USA; poster co-presenter.

Computing

Proficient in MS Office, iWork office suites.

Advanced skills in Adobe Creative Suite Family (Photoshop, InDesign, Illustrator).

Management

Maintain inventory of lab supplies, equipment, and *Drosophila* stocks.

Act as liaison to vendors, staff, and administration to ensure smooth laboratory operation.

Teaching Experience

Mentored a high school summer student during project.

Mentored a rotation student during rotation project.

Publications, Awards, and Honours

Raluca Pancratov, **Felix Peng**, Peter Smibert, Jr-Shuan Yang, Emily Ruth Olson, Ciaran Guha-Gilford, Feng-Xia Liang, Eric C. Lai, Ramanuj DasGupta. The microRNA-310/13 cluster antagonises beta-catenin/armadillo function in the regulation of germline stem cell differentiation in *Drosophila*. 2011 (in preparation)

Nan Wang, Mollie Ranalletta, Fumihiko Matsuura, **Felix Peng**, Alan R. Tall. LXR-Induced Redistribution of ABCG1 to Plasma Membrane in Macrophages Enhances Cholesterol Mass Efflux to HDL. *Arterioscler Thromb Vasc Biol.* June 2006; 26(6): p.1310–1316. Published online 23 March 2006. PMID: 16556852

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| National Residence Hall Honorary Northeast Educational Program of 2006 the Month of September, "Using DNA to Overturn Wrongful Convictions" | 2006 |
| New York University College of Arts and Science Trustees Scholarship | 2004–2008 |
| National Merit Scholarship Semifinalist | 2003 |
| AAA High School Travel Challenge, National Co-Champion | 2003 |
| National Geographic Bee, National Champion | 2000 |

Activities and Interests

Languages spoken: Fluent in English, Mandarin. Working knowledge of Spanish.

Other Interests: Gastronomy, architecture (particularly modern architecture), design, domestic and international politics.

References

Eric Lai – Associate Member
Developmental Biology
Sloan-Kettering Institute
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Ramanuj DasGupta – Assistant Professor
Cancer Institute/Dept of Pharmacology
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Edwin L (Chip) Ferguson – Professor
Molecular Genetics and Cell Biology
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