
BIOGRAPHICAL SKETCH

NAME in English Yaa-Jyuhn James Meir	POSITION TITLE Assistant Professor, Department of Biomedical Sciences
NAME in Chinese 梅雅俊	

EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
National Chang Kung University	B.S.	05/88	Biology
Vanderbilt University	Ph.D.	07/99	Cell Biology
University of California, Santa Cruz	Postdoctoral Fellow	07/05	Molecular Genetics
Medical College of Georgia	Research Assistant Scientist	07/08	Gene & Cell Therapy

A. Positions and Honors

Positions and Employment

August 2007-Present: Vice President of Research and Technology, Celgenomics, LLC.

August 2005-July 2007: Assistant Research Scientist, Center for Molecular Chaperone/Radiobiology and Cancer Virology, Medical College of Georgia.

July 2004-July 2005: Postdoctoral fellow, Department of Environmental Toxicology, University of California, Santa Cruz, CA.

May 2000-July 2004: Research Associate, Howard Hughes Medical Institute, Department of MCD Biology, University of California, Santa Cruz, CA.

August 1999-March 2000: Postdoctoral fellow, Department of Cell Biology, Vanderbilt University School of Medicine, Nashville, TN.

September 1994-July 1999: Graduate Student, Department of Cell Biology, Vanderbilt University School of Medicine, Nashville, TN.

B. Selected Peer-reviewed Publications (2005-2010) (in chronological order)

(1) JOURNAL

1. J. Reproduction and Fertility 94, 431-436 (1992). SCI (2005)

Jiann-Ping Wang, Wann-Yee Her, **Yaa-Jyuhn James Meir**, Ts'an-Shiuu Lir, Hsiu-Luan Chang, Fore-Lien Haung. Seasonal variation in cell cycle during early development of the mouse embryo.

2. Development 124, 1699-1709 (1997). SCI 7.60 (2005)

Amy Pflugrad*, **Yaa-Jyuhn James Meir***, Tom M. Barnes, and David M. Miller, III. The Groucho-like transcription factor UNC-37 functions with the neural specificity gene *unc-4* to govern motor neuron identity in *C. elegans*. (***These authors contributed equally to this work**)

3. Genes and Development 13(21), 2774-2786 (1999). SCI 15.61 (2005)

Angela R. Winnier*, **Yaa-Jyuhn James Meir***, Jennifer M. Ross, Nektarios Tavernerakis, Monica Driscoll, Takeshi Ishihara, Isao Katsura, and David M. Miller, III. UNC-4/UNC-37-dependent repression of motor neuron-specific genes controls synaptic choice in *Caenorhabditis elegans*. (***These authors contributed equally to this work**)

4. Molecular Microbiology 60(2), 331-348 (2006). SCI 6.20 (2005)

Bently Lim, **Yaa-Jyuhn James Meir**, and Fitnat Yildiz. Cyclic-di-GMP signal transduction system in *Vibrio cholerae*: Modulation of Rugosity and Biofilm formation.

5. Proc Natl Acad Sci USA 103(41), 15008-13 (2006). SCI 10.23 (2005)

Wu SC*, **Yaa-Jyuhn James Meir***, Coates CJ, Handler AM, Moisyadi S, Pelczar P, Kaminski JM (2006). *piggyBac* is a flexible and highly active transposon as compared to *Sleeping Beauty*, *Tol2*, and *Mos1* in mammalian cells. (*** These authors contributed equally to this work.**)

6. Current Biology 17(7), 592-8 (2007). SCI 11.73 (2005)

Sakaguchi-Nakashima A., **Yaa-Jyuhn James Meir**, Yishi J., Matsumoto K., & Hisamoto N. LRK-1, a *C. elegans* PARK8-Related Kinase, Regulates Axonal-Dendritic Polarity of SV Proteins.

(2) PATENTS

1. Cell and animal transgenesis with single plasmid transposase (Helper) and transposon (Donor) constructs. (US patent no. 60-840-780; 2006)

2. Methods and Compositions for Drug-Free Selection in Genetic Engineering. (US patent no. 61-127-479; May 2008)

3. A Transposon-Mediated Genetic Engineering System with a Self-Activating Reporter for a Rapid Indication of Transposition (US patent no. 61-131-298; June 2008)

4. Methods and Compositions for Drug-Free Selection in Genetic Engineering. (US patent no. 12/588,708; 10/26/2009) Confirmation No. 3763

C. Research Support

Ongoing Research Support

NMRPD190521 Meir (PI) 08/01/10—7/31/11
Identifying biomarkers/genes involving in brain formation and function via a piggyBac-based in vivo genetic screen in living mice.
Role: PI

VHYK-9904 Yang (PI) 01/01/10- 12/31/10
Developing a novel transposon-mediated gene therapy strategy in brain--- using primary hippocampal neuron culture of MPS IIIA mouse as a therapeutic model
Role: co-PI

CMRPD180042 Meir (PI) 03/01/09 – 02/28/11
Combinatory of gene and cell therapy in Stroke using VEGF engineered mesenchymal stem cells via a viral packaged piggyBac transposon
Role: PI

Completed Research Support (2006-2010)

vhyk-9704 Yang (PI) 01/01/08-12/31/08
Developing the highly active mammalian DNA transposons as tools for gene therapy
Role: co-PI

vhyk-9804 Yang (PI) 01/01/09-12/31/09
Developing the highly active Adeno-piggyBac gene delivery system as tools for gene therapy
Role: co-PI

NMRPD180021 Meir (PI) 03/01/09 – 07/31/10
Establishing the Neurogenesis Pathways in C17.2 Neural Stem Cell by Innovating a High Efficient Gene Entrapment System
Role: PI

CMRPD180021 Meir (PI) 03/01/08 – 02/28/09
Combinatory of gene and cell therapy in Stroke using VEGF engineered mesenchymal stem cells via a viral packaged piggyBac transposon
Role: PI