

Keh-Weei Tzung

11F, 372, Sec 1, Keelung Rd,
Taipei, Taiwan

kehweei.tzung@gmail.com

Education

University of California, San Francisco, CA, 2004

Ph.D., Oral and Craniofacial Sciences

National Defense Medical Center, Taipei, Taiwan, 1989

M.S., Pathology

National Taiwan University, Taipei, Taiwan, 1987

B.D.S., Dentistry

Awards and Honors

Non-Resident Tuition Scholarship, Graduate Division, UCSF, 2000-2001

Dean's Fellowship, School of Dentistry, UCSF, 1995-1998

Non-Resident Tuition Scholarship, Graduate Division, UCSF, 1995-1998

Dr. Yeh Shu Pathology Award, Taiwan, ROC, 1990

Institute of Biomedical Sciences, Academia Sinica Scholarship, ROC, 1988-1989

Ministry of Education Scholarship, Taiwan, ROC, 1988-1989

Fifth Nationwide Student Essay Contest: Prize Winner, Taiwan, ROC, 1985

Research and Professional Experience

Research fellow, Temasek Life Sciences Laboratory, Singapore, 10/10-2/14

--Primordial germ cells and sexual differentiation in zebrafish

--Nutritional and nutrigenomic studies on feeds, additives and feeding conditions for the Asian seabass (involved in grant writing)

Research fellow, Cincinnati Children's Hospital Medical Center, OH, USA, 10/08-7/09

--Organogenesis of urinary bladder and stem cells in *Xenopus*

Postdoctoral fellow, University of Wisconsin-Madison, USA, 5/05-5/08

--Zebrafish as a model to study pluripotency of embryo-derived stem cells

Graduate student with Dr. Nina Agabian, Department of Cell and Tissue Biology, UCSF, CA, USA, 10/97-4/04 (dissertation research)

--*Candida albicans* and sexual reproduction

Short-term rotation projects with

--Dr. Tim Mitchison, Department of Biochemistry and Biophysics, UCSF, CA, USA, 2/97-6/97. Identification of new proteins interacting with kinetochores

--Dr. Rik Derynck, Department of Cell and Tissue Biology, UCSF, CA, USA, 7/96-12/96. The cytoplasmic domain of TGF- α and associated proteins as a signaling entity

--Dr. Patrick O'Farrell, Department of Biochemistry and Biophysics, UCSF, CA, USA, 1/96-6/96. The functional role of cyclin E in DNA replication in *Drosophila* embryo

Research associate with Dr. L. Chan at Department of Cell Biology, Baylor College of Medicine, TX, USA, 9/92-7/95

--Gene targeting of human lipoprotein lipase

Research associate with Dr. C.T. Lin, Institute of Biomedical Sciences, Academia Sinica, Taipei, 7/91-8/92

--Tumor biology of nasopharyngeal carcinoma: isolation of transformation-associated sequences

Graduate student (M.S.) with Dr. C.T. Lin, Institute of Biomedical Sciences, Academia Sinica, Taipei, 8/88-7/89

--Tumor biology of nasopharyngeal carcinoma: viruses, oncogenes and retrotransposons

Graduate student and Resident (Surgical Pathology) at Tri-Service General Hospital, Taipei, 8/87-7/88

Intern (Dentistry) at National Taiwan University Hospital, Taipei, 6/86-6/87

Publications

Tzung, K.W. (1989). Detection of associated viruses and expression of oncogenes in nasopharyngeal carcinoma cell Lines, (M.S. Thesis, in Chinese). Transaction of the Pathological Society, Republic of China, 1-85.

Lin, C.T., Wong, C.I., Chan, W.Y., **Tzung, K.W.**, Ho, J.K., Hsu, M.M., and Chung, S.M. (1990). Establishment and characterization of two nasopharyngeal carcinoma cell Lines. Laboratory Investigation 62, 713-724.

Huang, E.S., Gutsch, D., **Tzung, K.W.**, and Lin, C.T. (1993). Detection of low level of human papilloma virus type 16 DNA Sequences in cancer cell Lines derived from two well-differentiated nasopharyngeal Cancers. J. Med. Virol. 40, 244-250.

Oka, K., **Tzung, K.W.**, Sullivan, M., Lindsay, E., Baldini, A., and Chan, L. (1994). Human very low density lipoprotein receptor complementary DNA and deduced amino acid sequences and localization of its gene to chromosome band 9p24 by fluorescence in situ hybridization. Genomics 20, 298-300.

Tzung, K.W., Ishimura-Oka, K., Kihara, S., Oka, K., and Chan, L. (1994). Structure of the mouse cholesterol-7 α hydroxylase gene. Genomics 21, 244-247.

Zsigmond, E., Kobayashi, K., **Tzung, K.W.**, Li, L., Fuke, Y., and Chan, L. (1997). Adenovirus-mediated gene transfer of human lipoprotein lipase ameliorates the hyperlipidemias associated with apolipoprotein E and LDL receptor deficiencies in Mice. Human Gene Therapy 8, 1921-1933.

Tzung, K.W., Williams, R.M., Scherer, S., Federspiel, N., Jones, T., Hansen, N., Bivolarevic, V., Huizar, L., Komp, C., Surzycki, R., Tamse, R., Davis, R.W. and, Agabian, N. (2001). Genomic evidence for a complete sexual cycle in *Candida albicans*. PNAS 98(6), 3249-3253.

Tzung, K.W. (2004). A genomics based approach to exploring the potentiality for a complete sexual cycle in the pathogenic fungus, *Candida albicans*. (Ph.D. dissertation).

***Tzung, K.W.**, Goto, R., Saju, J.M., Sreenivasan, R., Saito, T., Arai, K., Yamaha, E., Hossain, M.S., Calvert, M., and Orbán*, L. (2015). Early depletion of primordial germ cells in zebrafish promotes testis formation. Stem Cell Reports 4, 61-73. (<http://dx.doi.org/10.1016/j.stemcr.2014.10.011>; ***co-correspondence**).

References

Nina Agabian, Ph.D., Professor Emeritus

Director of Research, Global Health Science
Department of Cell and Tissue Biology
University of California, San Francisco
521 Parnassus Ave, Room C740
San Francisco, CA 94143-0640
Tel: 415-476-6845
Fax: 415-476-0664
E-mail: nina.agabian@ucsf.edu, agabiann@globalhealth.ucsf.edu

James Thomson, V.M.D., Ph.D., Diplomate A.C.V.P.

Director of Regenerative Biology, The Morgridge Institute for Research
Professor, Department of Cell and Regenerative Biology
University of Wisconsin, School of Medicine and Public Health
Professor, Department of Molecular, Cellular, and Developmental Biology
University of California, Santa Barbara

309 N Orchard St
Madison, WI 53715
Phone: [608-316-4346](tel:608-316-4346)
E-mail: jthomson@morgridgeinstitute.org

Laszlo Orban, Ph.D., Professor

Senior Principal Investigator
Reproductive Genomics Group
Strategic Research Program
Temasek Life Sciences Laboratory
1 Research Link, NUS
Singapore 117604
Tel: 65-6872-7413
Fax: 65-6872-7007
E-mail: laszlo@tll.org.sg

Meredith Calvert, Ph.D.

Head (Bioimaging & Biocomputing)
Temasek Life Sciences Laboratory
1 Research Link
The National University of Singapore
Singapore 117604
T: +65 6872 8406
M: [+65 9168 1302](tel:+6591681302)
E-mail: meredith@tll.org.sg