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## BIOGRAPHICAL SKETCH

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NAME in English Szecheng J. Lo	POSITION TITLE Professor, Department and Graduate Institute of Biomedical Sciences		
NAME in Chinese 羅時成			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
National Taiwan Normal University	B.S.	06/70	Biology, Zoology
University of Wisconsin--Superior	M.S.T.	06/74	Biology, Education
Wayne State University (Biological Sciences)	Ph.D.	08/79	Cell Biology
Wayne State University (Chemistry)	postdoc	07/80	Biochemistry

### A. Positions and Honors

#### Positions and Employment

1970-71, 72-73	Biology Teacher, Ming-Chun Junior High School (Taipei)
1980-1986	Associate Professor, Department of General Study, Immunology and Microbiology, National Yang Ming Medical College
1986-2003	Professor, Immunology and Microbiology, National Yang Ming University
1988-1991	Chairman, Immunology and Microbiology, National Yang Ming University
1998-2001	Chairman, R&D, National Yang Ming University
2001-2003	Dean, Student Affair, National Yang Ming University
2003-present	Professor, Department of Life Science (Biomedical Science since 2010), Chang Gung University
2011-present	Chairman, Department of Biomedical Science, Chang Gung University

#### Other Experience and Professional Memberships

1980-	Member, The American Society for Cell Biology (ASCB)
1985-	Member, The American Society of Microbiology (ASM)
1990-	Member, American Association for the Advancement of Science (AAAS)
1986-	Member, Society of Chinese Bioscientists in America (SCBA)
1980-	Member, The Chinese Society of Biochemistry and Molecular Biology
1985-	Member, The Chinese Society of Cell and Molecular Biology
2010-	Manager Editor, <i>Frontiers of Biosciences</i>

### HONORS AND AWARDS

1. The Tsing-Ling Medical Foundation Research Chair Award (1986)
2. The Excellent Research Award of National Science Council (1986-1990)
3. The Best Teacher Award by Ministry of Education (1990, 1993)
4. The Outstanding Research Award of NSC (1991-1992, 1993-1994)
5. The award of the Best 10 Popular Science Book (The Story of Snake Venom Research in Taiwan, CO-AUTHOR WITH YU-LING YANG), 1996.
6. The award of the Best 10 Popular Science Book (Hepatitis B Combat in Taiwan, CO-AUTHOR WITH YU-LING YANG), 1999.
7. The Research Award of NSC (1995-2002)
8. The Golden Leaf Award for Hepatitis B Combat in Taiwan (Nov., 2002)

### B. Selected Peer-reviewed Publications (2010-2014) (in chronological order)

1. Lee C-C \*, Tsai Y-T \*, Kao C-W, Lee L-W, Lai H-J, Ma T-H, Chang Y-S, Yeh N-H, and **Lo SJ**<sup>#</sup>. (2014). Mutation of a Nopp140 gene *dao-5* alters rDNA transcription and increases germ cell apoptosis in *C. elegans*. *Cell Death and Disease*. 5, e1158; doi:10.1038/cddis.2014.114.
2. Yi YH\*, Chien CH\*, Chen WW, Ma TH, Liu KY, Chang YS, Chang TC<sup>§</sup>, **Lo SJ**<sup>§</sup>. (2014). Lipid droplet pattern and non-droplet like structure in two fat mutants of *Caenorhabditis elegans* revealed by coherent anti-Stokes Raman scattering (CARS) microscopy. *Journal of Biomedical Optics*. **19**(1): O11011-1~7. (\*equal contribution; <sup>§</sup>corresponding author)
3. Yang H-C, Chen T-L, Wu Y-H, Cheng K-P, Lin Y-H, Cheng M-L, Ho H-Y, **Lo SJ** \* and Chiu DT-Y \*. (2013). Glucose 6-phosphate dehydrogenase deficiency enhances germ cell apoptosis and causes defective embryogenesis in *Caenorhabditis elegans*. *Cell Death and Disease*. 4, doi : 10.1038/cddis. 2013. 132.
4. Huang CR, Wang RY, Hsu SC, **Lo SJ**\*. (2012). Lysine-71 in the large delta antigen of hepatitis delta virus clade 3 modulates its localization and secretion. *Virus. Res.* **170**: 75-84.
5. Yi YH, Chang YS, Lin CH, Lew TS, Tang CY, Tseng WL, Tseng CP and **Lo SJ**\*. (2012) Integrin-mediated membrane blebbing is dependent on sodium-proton exchanger 1 and sodium-calcium exchanger 1 activity. *J. Biol. Chem.* **287**(13): 10316-10324.
6. Lee LW, Lee CC, Huang CR, **Lo SJ**\*. (2012) The nucleolus of *Caenorhabditis elegans* (invited review). *J. Biomed. Biotechnol.* **2012**: 1-11.
7. Kuo SC, Chen YJ, Wang YM, Tsui PY, Kuo MD, Wu TY\*, **Lo SJ**\*. (2012). Cell-based analysis of Chikungunya virus E1 protein in membrane fusion. *J. Biomed. Sci.* **19**: 44-55.
8. Kuo SC, Chen YJ, Wang YM, Kuo MD, Jinn TR, Chen WS, Chang YC, Tung KL, Wu TY\*, **Lo SJ**\*\* . (2011). Cell based analysis of Chikungunya virus membrane fusion using baculovirus-expression vectors. *J. Virol. Methods.* **175**: 206-215.
9. Lee LW, Chang TY, Lo HW, **Lo SJ**\*. (2011). Hepatitis D antigens cause growth retardation and brood-size reduction in *C. elegans*. *Frontiers Biosci.* **3**:380-390.
10. Huang CR, **Lo SJ** \*. (2010). Evolution and Diversity of the Human Hepatitis D Virus Genome. *Adv. Bioinform.* 323654-323662.
11. Lee LW, Lo HW, **Lo SJ**\*. (2010). Vectors for co-expression of two genes in *Caenorhabditis elegans*. *Gene.* **455**: 16-21.

## C. Research Support

### Ongoing Research Support

National Science Council Grant (NSC 97-2320-B-182-002-MY3)

08/01/2008-07/31/2011

Effects of HBV and HDV antigens on the development of *C. elegans*.

The goal of this study is to establish a model to understand the viral antigens interacting molecules, either protein or nucleic acid, which may be associated with viral pathogenesis.

Role: PI

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**National Science Council Grant (PA9902-1961)**

**01/01/2010-12/31/2012**

**Continuation and Improvement of the *C. elegans* Core Facility**

The goal of this study is to establish a transgenic worm core by the bombardment method.

Role: Co-Investigator, PI: Yi-Chun Wu (National Taiwan University)

**National Science Council Grant (PF9801-1616)**

**01/01/2008-12/31/2010**

**Research experience for science teacher--*Caenorhabditis elegans* model**

**Goal: To share the research experience of *C. elegans* to high school biology teachers and their students and help to conduct worm experiment for science exhibition.**

**Role: PI.**

**Chang Gung Memorial Hospital Grant (CMRP)**

**12/01/2009-11/39/2012**

**Roles of three DNase II genes in the development of *Caenorhabditis elegans***

The goal of this project is to create an integrated database of demographic, social and biomedical information for homeless opiate abusers in two urban Missouri locations, using a number of state and local data sources.

**[Completed Research Support \(2006-2010\)](#)**

**Chang Gung Memorial Hospital Grant (CMRP)**

**01/01/2007-12/31/2009**

**Biosynthesis control of nucleolus in *Caenorhabditis elegans***

Goal: to study the nucleolus-size control gene (*ncl-1*) and nucleolar protein (DAO-5).

Role: PI

**National Science Council Grant (PF9808-0391)**

**05/01/2008-3/31/2009**

**Promotion of Popular Science in Taiwan**

Goal: to compose the major contribution and influence to Taiwan science community by Science Monthly and to held conference and publish articles.

Role: PI

**National Health Research Institute Grant (PG9705-0153)**

**01/01/2006-06/30/2008**

**Pathogenesis Correlation with the Replication of HDV**

**Role: PI.**

**National Science Council Grant (PC9607-0303)**

**08/01/2007-07/31/2008**

Establishment of hepatitis viral gene expression in *Caenorhabditis elegans*

**Goal: to establish the model organism to study the effect of hepatitis viral genes**

**Role:PI.**

**National Science Council Grant (PC9408-1375)**

**08/01/2004-07/31/2006**

**Factors of HDV antigens' translocation**

**Goal: to determine those factors can influence the HDV antigen translocation from the nucleus to cytoplasm**

**Role: PI.**

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