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## BIOGRAPHICAL SKETCH

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NAME in English <b>Robert Yung-Liang Wang</b>	POSITION TITLE Assistant Professor, Department of Biomedical Sciences		
NAME in Chinese <b>王永樑</b>			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Taipei Medical University, Taiwan	B.S.	06/93	Nutritional Sciences
National Taiwan University, Taiwan	Ph.D.	01/03	Microbiology
The University of Texas Medical Branch, Galveston, TX	Postdoctoral	02/03	Molecular Virology
University of Kentucky, Lexington, KY	Postdoctoral	10/05	Molecular Virology

### A. Positions and Honors

#### Positions and Employment

2009- Assistant Professor, Department of Biomedical Sciences, ChangGung University, TaoYuan, Taiwan

#### Other Experience and Professional Memberships

2005- Member, American Society for Virology

#### Honors

2004 Conference presentation award of international molecular biology of human hepatitis B virus meeting, Boston, MA

2005 Conference poster award of Pathology Department's 11th Annual Trainee Poster Session, University of Texas Medical Branch, Galveston, TX

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

- 1) **Wang RYL**, Stork J, Pogany J, Nagy PD. A temperature sensitive mutant of heat shock protein 70 reveals an essential role during the early steps of tombusvirus replication. *Virology*.2009; **394**:28-38.
- 2) **Wang RYL**, Stork J, Nagy PD. A key role for heat shock protein 70 in localization and insertion of the tombusvirus replication proteins to intracellular membranes. *J. Virology*. 2009;**83**:3276-3287
- 3) **Wang RYL**, Nagy PD . Tomato bushy stunt virus Co-opts the RNA-Binding Function of a Host Metabolic Enzyme for Viral Genomic RNA Synthesis. *Cell Host&Microbe*. 2008;**3**:178-187.
- 4) **Wang RYL**, Shen CN, Tosh D, Lin MH, Shih C. Hepatocyte-like cells transdifferentiated from pancreatic origin can support replication of hepatitis B virus. *J. Virology*. 2005;**79**:13116-13128.
- 5) Chua PK, **Wang RYL**, Suk FM, Lin MH, Masuda T, and Shih C. A Naturally Occurring Mutation (L77R) of Hepatitis B Virus Small S Envelope Gene Results in Low-Level Virion Secretion and Can be Suppressed by Another Natural Envelope Mutation (W74L). *J. Virology*. 2005;**79**:13483-13496.

- 6) **Wang YL**, Wu CY, Chang CT, Sung HY. Invertase inhibitors from sweet potato (*Ipomoea Batatas*): purification and biochemical characterization. **J. Agric. Food Chem.** 2003;**51**:4804-4809.
- 7) Fu RH\*, **Wang YL**\*, Sung HY. Biochemical and molecular biological studies of plant invertases. **Food Sci. Agric. Chem.** 2002;**4**:1-7 (\*Equally contribution).
- 8) Fu RH, **Wang YL**, Sung HY. (2003) Cloning, characterization and functional expression of a new beta-D-fructofuranosidase (*Osbetafruct2*) cDNA from *Oryza sativa*. **Biotechnol Lett.** **25**(6):455-459.
- 9) **Wang YL**, Lee YH, Chen CC, Chang CT, Sung HY. Purification and characterization of soluble acid invertase from yam tubers. **J. Chinese Agric. Chem. Soc.** 1998;**36**: 464-472.

## C. Research Support

### Ongoing Research Support

R01 NSC98-2320-B182-036-MY2                      Wang (PI)    08/01/09-07/31/11  
 Functional roles of Host Factors in Plus-stranded RNA Viruses Replication  
 The goal of this study is to understand the virus-host interactions that govern whether a host is susceptible or resistant to a virus.  
 Role: PI

ChangGung Memory Hospital Research Grant, Chang Gung University    06/01/09-05/30/12  
 Dissecting the functional role of viral replication proteins-associated or replication-modulated molecules in viral RNA replication  
 The goal of this project is to create a new host model which can support the replication of two positive-stranded RNA viruses, Japanese Encephalitis Virus and Enteroviruse-71.

### Completed Research Support (2006-2010)

None