

## CURRICULUM VITAE

**NAME:** Yuan Chuan LEE

### ACADEMIC TRAINING:

BS (1955)	Natl. Taiwan Univ., Taipei, Taiwan (Agri. Chem.)
MS (1957)	Natl. Taiwan Univ., Taipei, Taiwan (Agri. Chem.)
PhD (1962)	Univ. of Iowa, Iowa City, Iowa (Biochem.)

### EXPERIENCE:

Postdoctoral	Feb. 1962 ~ Aug. 1962; Univ. of Iowa (Biochem.)
Postdoctoral	Sept. 1962 ~ June 1965; Univ. of Calif. Berkeley (Biochem).

Assist. Prof. (Biology)	Johns Hopking Univ. --- July 1965 ~ June 1970
Assoc. Prof. (Biology), JHU	--- July 1970 ~ May 1974
Prof. (Biology)	--- June 1974 ~ 2010
Prof. of Chem.	--- Aug. 2007 ~ 2010
Preceptor for Chem. Biol. Interface (CBI), JHU	--- 2005 ~2016
Academy Prof. (JHU)	--- 2011 ~ Present

Visiting Prof. --- June ~ Sept., 1980 (Kyoto Univ., Kyoto, Japan)  
Visiting Prof. --- October 1987 (Inst. Biol. Chem., Academia Sinica, Taipei, Taiwan)

Visiting Prof. --- Sept., 1988 (Beijing Medical University, Beijing, China)  
Visiting Prof. --- May, 1991 (Shanghai Medical University, Shanghai, China)  
Visiting Prof. --- July, 2005 (Univ. of Osijek, Croatia)  
Adjunct Prof. --- July 2005 -- Present (Natl. Tsinghua Univ.; Taiwan)

Natl. Inst. Health Physiol. Chem. Study Section	1985 ~ 1989
Executive Editor for Anal. Biochem.	1978 ~ 2002
Editor for J. Biol. Chem.	1989 ~ 1993; 1996 ~ 2000
Editor for Glycoconjug. J.	1985 ~1991; 1997 ~ Present
Editor for Carbohydr. Res.	1993 ~ 2002
Editor for Carbohydr. Lett.	1993 ~ 1999
Editor for Trends Glycosci. Glycotechnol.	1989 ~ Present
Editor for J. Biomed. Sci.	1992 ~ 1999
Editor for J. Biochem. Mol. Biol. Biophysics	1966 ~ 2002

Advisory Council, Academia Sinica, Taiwan — 2002 ~ 2010  
Advisory Council, Inst. Biochem., Academia Sinica, Taiwan —1994 ~ 2016  
(Adjunct Investigator 1996—current)  
Advisory Council (Chair), Gen. Res. Ctr, Academia Sinica — 2004 ~2016

(Adjunct Investigator 2016—Current)  
Advisory Council, RIKEN (Inst. Physics & Chem.) Japan, 2000 ~ 2007  
Advisor to Sch. Nat. Sci., Nat. Univ. of Ireland Galway, Ireland, 2009 ~2012

## HONORS:

Natl. Inst. Health Res. Career Devel. Award	— 1972~1977
Jap. Soc. Adv. Sci. Fellowship	— 1980~1981
Natl. Inst. Health MERIT Award	— 1986~1995
Special Chair Lectureship (Academia Sinica)	— 1987
Yabuta Lectureship (Soc. Agri. Chem., Japan)	— 1990
Herbert Sober Lectureship Award	— 1992
Academia Sinica, member	— 1994 ~ Present
Distinguished Professor Award, Tokyo Inst. Technol.	— 1995
Natl. Inst. Health Fogarty Fellowship Award	— 1995
C.H. Li Memorial Award, Academia Sinica	— 1996
Claud S. Hudson Award, Amer. Chem. Soc.	— 2001
Distinguished Alumni Award, Univ. of Iowa	— 2005
Rosalind Kornfeld Award, Soc. of Glycobiology	--- 2011
Ameri. Soc. for Advancement of Sci. (AAAS) Fellow	----2016

## MEMBERSHIP:

Amer. Chem. Soc.	
Biol. Chem. Div.	1965 ~ Present
Carbohydr. Div.	1965 ~ Present
Amer. Amer. Soc. Biochem. Mol. Biol.	1970 ~ Present
Chinese Biochem. Soc. (Taiwan)	1972 ~ Present
Japanese Biochem. Soc.	1981 ~ 2000
Amer. Soc. Cell. Biol.	1983 ~ Present
Soc. Glycobiology (USA)	1965 ~ Present

## FIELDS OF EXPERTISE:

Glycoconjugates (glycoproteins, glycolipids, proteoglycans)  
Carbohydrates (analysis, synthesis)  
Carbohydrate-protein interactions (lectins)  
Insect cell culture for Glycoprotein production  
Glyco-nanotechnology

## Publications of Last 5 yrs:

1. Demeter, Fruzsina; Chang, Margaret Dah-Tsyr; Lee, Yuan-Chuan; Borbas, Aniko; Herczeg, Mihaly (2020) An Efficient Synthesis of the Pentasaccharide Repeating Unit of *Pseudomonas aeruginosa* Psl Exopolysaccharide. *Synlett*, 31(5), 469-474.
2. Fu, Tse-Kai; Ng, Sim-Kun; Chen, Yi-En; Lee, Yuan-Chuan; Demeter, Fruzsina; Herczeg, Mihaly; Borbas, Aniko; Chiu, Cheng-Hsun; Lan, Chung-Yu; Chen, Chyi-Liang; et al (2019) Rhamnose binding protein as an anti-bacterial agent-targeting biofilm of *Pseudomonas aeruginosa*. *Marine Drugs*, 17(6), 355.
3. Demeter, Fruzsina; Balogh, Tímea; Fu, Tse-Kai; Chang, Margaret Dah-Tsyr; Lee, Yuan-Chuan; Borbas, Aniko; Herczeg, Mihaly (2019) Preparation of  $\alpha$ -L-Rhamnobioides by Open and Conventional Glycosylation for Studies of the rHPL Lectin. *Synlett*, 30(19), 2185-2192.
4. Sanes, Jurgen T.; Hinou, Hiroshi; Lee, Yuan Chuan; Nishimura, Shin-Ichiro (2019) Glycoblotting of Egg White Reveals Diverse N-Glycan Expression in Quail Species. *Journal of Agricultural and Food Chemistry*, 67(1), 531-540
5. Fu Tse-Kai; Ng Sim-Kun; Chen Yi-En; Lee Yuan-Chuan; Lan Chung-Yu; Chang Margaret Dah-Tsyr; Fu Tse-Kai; Lee Yuan-Chuan; Demeter Fruzsina; Herczeg Mihaly; et al (2019) Rhamnose Binding Protein as an Anti-Bacterial Agent-Targeting Biofilm of *Pseudomonas aeruginosa*. *Marine Drugs*, 17(6).
6. Sanes Jurgen T; Hinou Hiroshi; Nishimura Shin-Ichiro; Lee Yuan Chuan (2019) Glycoblotting of Egg White Reveals Diverse N-Glycan Expression in Quail Species. *Journal of agricultural and food chemistry*, 67(1), 531-540.
7. Schnaar, Ronald L.; Lee, Yuan C. (2017) Discoveries of the structures of sialic acid and CMP-sialic acid (1957-1960): a letter from Saul Roseman. *Glycobiology*, 27(6), 513-517.
8. Utratna, Marta; Annuk, Heidi; Gerlach, Jared Q.; Lee, Yuan C.; Kane, Marian; Kilcoyne, Michelle; Joshi, Lokesh (2017) Rapid screening for specific glycosylation and pathogen interactions on a 78 species avian egg white glycoprotein microarray. *Scientific Reports*, 7(1), 1-12.
9. Schnaar Ronald L; Lee Yuan (2017) Discoveries of the structures of sialic acid and CMP-sialic acid (1957-1960): a letter from Saul Roseman. *Glycobiology*, 27(6), 513-517.
10. Utratna Marta; Annuk Heidi; Gerlach Jared Q; Kane Marian; Joshi Lokesh; Gerlach Jared Q; Lee Yuan C; Kilcoyne Michelle (2017) Rapid screening for specific glycosylation and pathogen interactions on a 78 species avian egg white glycoprotein microarray. *Scientific Reports*, 7(1), 6477.
11. Herczeg Mihaly; Mezo Erika; Molnar Nikolett; Borbas Aniko; Ng Sim-Kun; Lee Yuan-Chuan; Dah-Tsyr Chang Margaret; Lee Yuan-Chuan (2016) Inhibitory Effect of Multivalent Rhamnobioides on Recombinant Horseshoe Crab Plasma Lectin Interactions with *Pseudomonas aeruginosa* PAO1. *Chemistry, an Asian journal*, 11(23), 3398-3413.