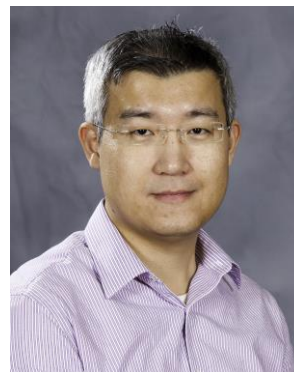


# Jen-Huang Huang 黃振煌

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## Biographical Sketch

Dr. Jen-Huang (Tony) Huang earned his doctoral degree in Chemical Engineering from Texas A&M University (College Station, TX, USA) under the supervision of Prof. Victor Ugaz, a pioneer using convectively driven biochemical reaction for DNA replication. Dr. Huang spent three years as a postdoctoral research fellow in Los Alamos National Laboratory (Los Alamos, NM, USA). He served as a key role to bridge the chasm between engineering and biology in the project funded by Defense Threat Reduction Agency (DTRA, DOD, USA) and won the 2016 R&D Award based on the development of *in vitro* Pulmonary Lung Model. Dr. Huang joined the faculty in the Department of Chemical Engineering at National Tsing Hua University in 2016. His research focuses on harnessing the microfluidic based 3-D structure to mimic the physiological function of a human organ or so called “organ-on-a-chip”. Areas of investigation include the establishment of breathing lung model for inhalation drug development, development of *in vitro* tumor microenvironment for drug toxicity study, and construction of tissue bioreactors incorporated with mechanical stimulation, optical in situ biomarkers, and perfusion system for personalized tissue regeneration. He has published scientific articles in journals including *Advanced Materials*, *Angewandte Chemie*, *Biomicrofluidics*, *Biomedical Microdevices*, *Chemical Science*, *Applied Physics Letters*, and *Scientific reports*. He also filed 10 of invention patent applications and won numerous prestigious awards.

## Education

Texas A&M University, TX, USA	Ph.D.	2006-2012	Chemical Engineering
National Tsing Hua University, Hsinchu, Taiwan	M.S.	2001-2003	Chemical Engineering
National Tsing Hua University, Hsinchu, Taiwan	B.S. (major)	1997-2001	Chemical Engineering
National Tsing Hua University, Hsinchu, Taiwan	B.S. (minor)	1997-2001	Life Sciences

## Professional Experience

National Tsing Hua University, Hsinchu, Taiwan	Assistant Professor	2016-Present	Chemical Engineering
Los Alamos National Laboratory, NM, USA	Post-doc	2012-2016	Bioscience

## Honors and Awards

- R&D 100 Awards, 2016
- Los Alamos National Laboratory Large Team Distinguished Performance Award, 2015
- CBD S&T Conference Scholarship, 2015
- MicroTAS CBMS Travel Grant, 2014
- Texas A&M University Dissertation Fellowship, 2011
- 26th International Symposium on Micro-Scale Bioseparations Best Poster Award, 2011
- MicroTAS Young Researcher Poster Award, 2008