H.-R. Tseng

Hsiang-Rong Tseng

Date of birth:	March 19, 1971
Position:	Associate Professor, University of California, Los Angeles (USA)
Education:	1993 BS Tunghai University, Taichung (Taiwan) 1998 PhD with Professor Tien-Yau Luh, National Taiwan University, Taipei (Taiwan) 2000–2003 Postdoc with Prof. Sir J. Fraser Stoddart, University of California, Los Angeles (USA)
Awards:	**1998** PhD Dissertation Award, Chinese Chemical Society, Taiwan; **2003** Chancellor's Award for Postdoctoral Research, University of California, Los Angeles (UCLA); **2004** Faculty Development Award, David Geffen School of Medicine at UCLA; **2005** Arthur K. Doolittle Award, PMSE Division, American Chemical Society
Current research interests:	Nanoparticle-based molecular diagnostics and therapeutics, in vitro molecular diagnostic platforms for cancer, microfluidic reactors for large-scale chemical screening
Hobbies:	Jogging, fishing, and traveling

*The author presented on this page has recently published his **10th article** since 2000 in Angewandte Chemie*: "Photothermal Effects of Supramolecularly Assembled Gold Nanoparticles for the Targeted Treatment of Cancer Cells": S. Wang, K.-J. Chen, T.-H. Wu, H. Wang, W.-Y. Lin, E. P.-Y. Chiou, H.-R. Tseng, *Angew. Chem.* **2010**, *122*, 3865–3869; *Angew. Chem. Int. Ed.* **2010**, *49*, 3777–3781.

My favorite subjects at school were … chemistry and physics.

When I wake up I … check my e-mails.

The greatest scientific advance of the last decade was … interdisciplinary research.

I am waiting for the day when someone will discover … a time machine, so I can see what will be happening 10 and 100 years from now.

The three qualities that make a good scientist are … passion, integrity, and persistence.

Chemistry is fun because … it helps solve the problems people encounter.

I chose chemistry as a career because … it is fun and rewarding.

The most important future application of my research is … health care.

My first experiment was … the extraction of color pigments from leaves and flowers.

The most exciting thing about my research is … to explore its potential clinical utility.

If I were not a scientist, I would be … a military officer.

My ultimate goal is to … be a good scientist, a scholar, and if possible an entrepreneur.

The part of my job which I enjoy the most is … working and learning with a group of very talented students and postdocs.

If I could be a piece of lab equipment, I would be … a separating funnel.

A good work day begins with … no incoming e-mails…

My 5 top papers:

1. "Multistep Synthesis of a Radiolabeled Imaging Probe Using Integrated Microfluidics": C.-C. Lee, G. Sui, A. Elizarov, C. J. Shu, Y.-S. Shin, A. N. Dooley, J. Huang, A. Daridon, P. Wyatt, D. Stout, H. C. Kolb, O. N. Witte, N. Satyamurthy, J. R. Heath, M. E. Phelps, S. R. Quake, H.-R. Tseng, *Science* **2005**, *310*, 1793–1796.
2. "A Supramolecular Approach for Preparation of Size-Controlled Nanoparticles": H. Wang, S. Wang, H. Su, K.-J. Chen, A. L. Armijo, W.-Y. Lin, Y. Wang, J. Sun, K. Kamei, J. Czernin, C. G. Radu, H.-R. Tseng, *Angew. Chem.* **2009**, *121*, 4408–4412; *Angew. Chem. Int. Ed.* **2009**, *48*, 4344–4348.
3. "Three-Dimensional Nanostructured Substrates toward Efficient Capture of Circulating Tumor Cells": S. Wang, H. Wang, J. Jiao, K.-J. Chen, G. E. Owens, K. Kamei, J. Sun, D. J. Sherman, C. P. Behrenbruch, H. Wu, H.-R. Tseng, *Angew. Chem.* **2009**, *121*, 9132–9135; *Angew. Chem. Int. Ed.* **2009**, *48*, 8970–8973.
4. "A Rapid Pathway Toward a Superb Gene Delivery System: Programming Structural and Functional Diversity into a Supramolecular Nanoparticle Library": H. Wang, K. Liu, K.-J. Chen, Y. Lu, S. Wang, F. Guo, W.-Y. Lin, K. Kamei, Y.-C. Chen, X.-Z. Zhao, C. K.-F. Shen, H. R. Tseng, *Nano* **2010**, DOI: 10.1021/nn101908e.
5. "A Microfluidic Platform for Systems Pathology: Multiparameter Single-Cell Signaling Measurements of Clinical Brain Tumor Specimens": J. Sun et al., *Cancer Research* **2010**, *70*, 6128–6138.

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