



Dr. Yunching (Becky) Chen is a Research Fellow at the Institute of Biological Chemistry, Academia Sinica, and a Joint Professor in the Department of Chemistry at National Tsing Hua University in Taiwan. She received her Ph.D. in Pharmaceutical Sciences from the University of North Carolina at Chapel Hill under the mentorship of Dr. Leaf Huang, followed by postdoctoral training at Harvard Medical School and Massachusetts General Hospital with Drs. Rakesh Jain and Dan Duda. Prior to joining Academia Sinica, she served as Professor and Chair of the Institute of Biomedical Engineering at National Tsing Hua University. Her research integrates immunoengineering, tumor biology, and advanced drug delivery to overcome microenvironment-mediated immunosuppression and therapeutic resistance.

Dr. Chen's laboratory develops mechanism-driven nanomedicine platforms for the delivery of nucleic acids, cytokines, small molecules, and immune modulators. While her primary focus is on reprogramming immune-excluded and fibrotic tumors such as hepatocellular carcinoma, pancreatic cancer, and triple-negative breast cancer, her work also extends to chronic inflammatory and fibrotic diseases including liver fibrosis, renal fibrosis, and inflammatory bowel disease (IBD). By targeting stromal barriers, immune checkpoints, and pathological signaling pathways, her research establishes generalizable design principles for precision nanomedicine across oncology and inflammation. Her work has been published in leading journals including *Nature Nanotechnology*, *Nature Reviews Bioengineering*, *Advanced Materials*, *Advanced Science*, *ACS Nano*, *Gut*, *Hepatology*, and the *Journal of Controlled Release*, and several of her innovations are under patent protection and active translational development.

Dr. Chen plays an active leadership role in the global drug delivery community. She currently serves as Deputy Editor-in-Chief of the *Journal of Controlled Release* and has been deeply engaged in the Controlled Release Society (CRS), serving as Chair of the International Chapter Committee from 2022 to January 2026, where she led international chapter coordination and cross-continental scientific initiatives.