



Ying Chih Chang

Adjunct Professor
Chemical Engineering

Bio

BIO

Dr. Ying Chang is the Chair of the Taiwan Science and Technology Hub and an Adjunct Professor in the Department of Chemical Engineering at Stanford University. She is also the Founder and CEO of Acrocyte Therapeutics, Inc.

Her former faculty appointments include Research Fellow (-Associate Fellow) at the Genomics Research Center, Academia Sinica, Taiwan, and Assistant Professor in the Departments of Chemical Engineering and Materials Science, and Biomedical Engineering at the University of California, Irvine. The research highlights include integrating nanomaterials, microfluidics, and bioreactors to control cell fates for tissue engineering, as well as developing circulating tumor cell 3D culture for cancer diagnostics and precision medicine. She holds multiple patents in DNA microarray constructs (assigned to Affymetrix), circulating tumor cell isolation and cancer screening (assigned to Cellmax Life Inc.), and single cell derived scaffold free 3D culture platform RCE and circulating tumor cell liquid biopsy drug test (assigned to Acrocyte Therapeutics Inc. www.acrocyte.com).

Dr. Chang's work was recognized by the Young Investigator Award from the Whitaker Foundation, FDA breakthrough device designation for pre-cancer and cancer detection (2021), Future Tech Award (2021), 18th National Innovation Award, Taiwan (2021), and Finalist at Startup Stadium at BIO 2024, among other. She is also on the board of trustees of Kaohsiung Medical University, and Chang Chau-Ting Memorial Foundation, a non-profit organization for science education and awareness in Taiwan. She received her BS from National Taiwan University, and PhD from Stanford University, both in Chemical Engineering.

ACADEMIC APPOINTMENTS

- Adjunct Professor, Chemical Engineering

ADMINISTRATIVE APPOINTMENTS

- Chair, Taiwan Science and Technology Hub@Stanford, (2023- present)

HONORS AND AWARDS

- Finalist, Startup Stadium, Bio 2024 (June 2024)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Chang Chau Ting Memorial Foundation (2020 - present)
- Trustee, Kaohsiung Medical University (2020 - present)

PROFESSIONAL EDUCATION

- BS, National Taiwan University
- PhD, Stanford University , Chemical Engineering

LINKS

- "My company profile": <https://www.acrocyte.com/team-members/ying-chang-phd>
- "My LinkedIn profile": <https://www.linkedin.com/in/ying-chang/>

Publications

PUBLICATIONS

- **Repurposing pitavastatin and atorvastatin to overcome chemoresistance of metastatic colorectal cancer under high glucose conditions.** *Cancer cell international*
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- **Lipid-assisted synthesis of magnesium-loaded hydroxyapatite as a potential bone healing material** *JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS*
Chen, Y., Yu, Y., Yu, P., Fang, H., Chang, Y., Wu, K. W.
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- **Early Detection and Dynamic Changes of Circulating Tumor Cells in Transgenic NeuN Transgenic (NTTg) Mice with Spontaneous Breast Tumor Development.** *Cancers*
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- **Anticlogging Hemofiltration Device for Mass Collection of Circulating Tumor Cells by Ligand-Free Size Selection.** *Langmuir : the ACS journal of surfaces and colloids*
Wu, T., Wu, C., Huang, C., Chang, Y.
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- **Scalable Multilayer Cell Collector to Capture Circulating Tumor Cells with an Unlimited Volume Capacity.** *ACS biomaterials science & engineering*
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- **A High Circulating Tumor Cell Count in Portal Vein Predicts Liver Metastasis From Periampullary or Pancreatic Cancer A High Portal Venous CTC Count Predicts Liver Metastases** *MEDICINE*
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- **Sensitive and Specific Biomimetic Lipid Coated Microfluidics to Isolate Viable Circulating Tumor Cells and Microemboli for Cancer Detection** *PLOS ONE*
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Li, J., Chen, X. R., Chang, Y. C.
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