



國立臺灣大學

National Taiwan University

Founded in 1928

NTU Research Momentum

44%

publications in the Top 10%
most impactful journals in
given fields

4,149

collaborating institutions
from all sectors

39,351

publications

All data from calendar years 2013-2018

1,867

Valid
Patents

505

Technology
Transfers

14

University Spin-
offs in 2018-2019
(estimated)

5

Consortia
of Key
Technologies

11 Colleges + **56** Departments + **112** Graduate Institutes

> **2,200** academic staff

> **11,000** master's students

> **16,000** bachelor's students

> **3,600** doctoral students

NTU Research Clusters

Genomic and Precision Medicine

Integrating multiple omic approaches to comprehend in depth mechanisms and therapeutic strategies of three clinical unmet needs: infectious diseases, stress medicine, and cancers.

Precision Population Health Science

Building up a big data center for efficient storage and management to guide policy-making of integrated precision public health service system.

Information and Electronics Technologies

Aiming at developing and integrating multidisciplinary technologies to improve healthcare quality and to address critical issues in the environment.

Econometric Theory and Applications

Scrutinizing data sets from public and private sectors to analyze Taiwan's public policies and to provide strategic foresight that outlines tangible solutions to real-life problems.

Integrative Science for Sustainability

Integrating knowledge and technology in geosciences, environmental engineering, humanities, and social sciences to amplify research capacity in sustainability science and to tackle global environmental challenges.

Artificial Intelligence and Advanced Robotics

Applying AI theories on robotics, modern engineering, biomedicine and cognitive science, to develop new technologies that enhance human health and welfare.

Green Materials Science and Technology

Developing core technologies, including renewable and recycled materials, green energy materials, and green electronic processes.

Atomic Initiatives for New Materials

Encompassing materials growth by atomic design, expert system for atomic-material characterizations, and atomic/molecular functionalization, altogether aiming at new materials from Taiwan.

19

out of 22 Research Fields Ranked Top 1% by Essential Science Indicators (ESI)

Computer Science	Engineering	Materials Science	Biology & Biochemistry	Ecology / Environment	Microbiology	Molecular Biology & Genetics
Agricultural Sciences	Social Sciences, General	Economics & Business	Chemistry	Geosciences	Physics	Psychiatry/ Psychology
	Plant & Animal Science	Clinical Medicine	Immunology	Neuroscience & Behavior	Pharmacology & Toxicology	

Office of Research & Development



City-Data through Real-Time Images

Prof. Chun-Ting Chou:
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Prof. Ai-Chun Pang:
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Prof. Shou-De Lin:
sdlin@csie.ntu.edu.tw



Fighting Diseases with Healthy Cells

Prof. Jih-Luh Tang:
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New Technological Services and Models for Long-term Care 2.0

Prof. Shi-Chung Jessie Kang:
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Office of International Affairs



Play A Leading Role in International Higher Education Institutions



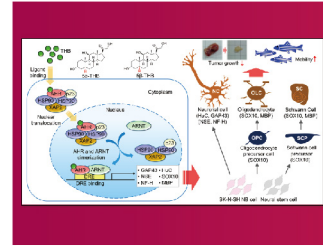
Stimulate Exchanges between International Administrators



Take Innovative Steps to Promote Internationalization



College of Life Science



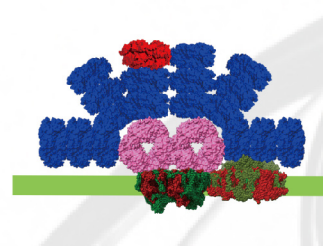
NTU and Academia Sinica Cast New Light on Neuroblastoma Treatment

Prof. Hsinyu Lee:
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Polyamines Enhance DNA Repair

Prof. Hung-Yuan Chi:
peterhchi@ntu.edu.tw



The Secret of Using Far-Red Light for Photosynthesis in Cyanobacteria

Prof. Ming-Yang Ho:
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Office of Academic Affairs



International Interdisciplinary Master Degree Programs

Prof. Tsai-Kun Li:
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Best Education for All @ NTU

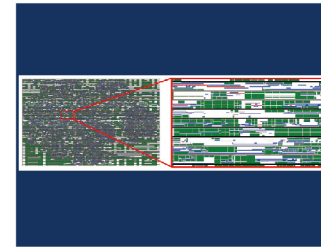
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NTU D-SCHOOL Summer Camp: A Social Practice, the Social Responsibility

Asst. Prof. Shu-Wei Huang:
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College of Electrical Engineering & Computer Science



Equivalent Capacitance Guided Dummy Fill Insertion for Timing and Manufacturability

Prof. Iris Hui-Ru Jiang:
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Improving the Sensitivity of Radio Astronomical Receiver by High Linearity MMIC Amplifier

Prof. Huei Wang:
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Power Converters for Emerging Solar Photovoltaic Systems

Prof. Katherine A. Kim:
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College of Law



The Development of Digital Technology and the Future of Law

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Legal Integrity Safeguards for State Institutions and National Public Officials

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Comparative Law

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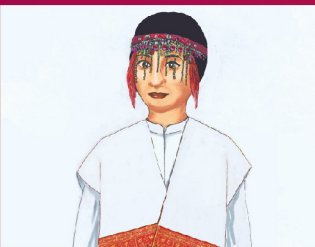


College of Liberal Arts



Tradition and Innovation in Sinology

Prof. Chia-Ling Mei:
meicl@ntu.edu.tw



The Taiwan Indigenous Collections Housed at the Overseas Museums

Dr. Kai-Shyh Lin:
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Sketch of a Pazeh or Kaxabu Woman Wearing Ceremonial Clothing Based on Artifacts Preserved at British Museum. (Painted by Rui-feng Cheng, Researched by Chia-yu Hu, Post-produced by Chia-cheng Wu & Hsin-yu Guo)



New Theories in East Asian History

Prof. Huai-Chen Kan:
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College of Science



Planarization and Integration of Three-Dimensional Magnetic Field Sensor

Prof. Ching-Ray Chang:
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Fight Against Global Warming

Prof. Hao Ming Chen:
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Impacts of Climate Changes on the Groundwater in Africa

Prof. Min-Hui Lo:
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College of Social Sciences



Globalization and Migration

Prof. Pei-chia Lan:
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Public Economics

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Risk Society and Policy

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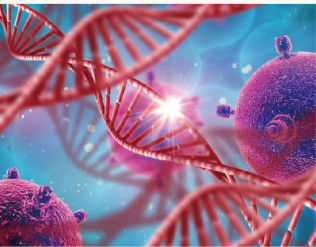
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College of Medicine



Dysbiosis of Gut Microbiota Associated with the Development of Allergies in Infants

Prof. Yen-Hsuan Ni' s Group:
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Risks of HBV-Related Hepatocellular Carcinoma: HBcrAg Matters

Prof. Jia-Horng Kao' s Group:
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The Mechanisms that Build the Brain

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College of Engineering



Enhanced Near - Infrared Photoresponse of Inverted Perovskite Solar Cells through Rational Design of Bulk - Heterojunction Electron - Transporting Layers

Prof. Chu-Chen Chueh:
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Using Atomic Layer Materials for Solar to Hydrogen Generation

Prof. Chun-Wei Chen:
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Dubai World Challenge for Self-Driving Transport - Intelligent Self-Driving Transport Systems through Integration of V2X and AI Technologies

Prof. Kang Li:
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College of Bio-Resources & Agriculture



Natural Products for the Prevention of Metabolic Disorder and Age-Related Diseases

Prof. Min-Hsiung Pan:
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Molecular Variety Identification Systems for Major Crops and Vegetables in Taiwan

A.P. Kae-Kang Hwu:
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Intelligent Urban Metabolic Systems for Green Cities of Tomorrow: a WFE Nexus-based Approach

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College of Management



The Career Satisfaction of IT Professionals With Mixed Job Demands

Prof. James J. Jiang:
jjjiang@ntu.edu.tw



The Information Advantage of Underwriters in IPOs

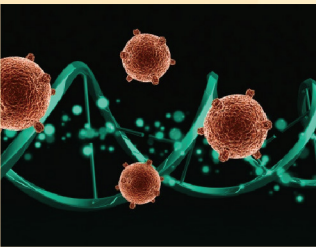
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Customer Satisfaction Underappreciation

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College of Public Health



The Discovery of Particulate Matter (PM) and Precision Prevention for Colorectal Cancer

Prof. Chang-Chuan Chan:
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Smart Exercise Modifies Obesity-causing Genes

A. P. Wan-Yi Lin:
linwy@ntu.edu.tw



Precision Population Health for Longer Life Expectancy through Integrated Public Health Interventions

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