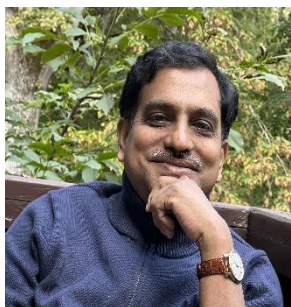


The NRF Investigatorship provides opportunities for scientists and researchers to pursue ground-breaking, high-risk research. It is designed to support a small number of excellent Principal Investigators who have a track record of research achievements that identify them as leaders in their respective field(s) of research.

CLASS OF 2026



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Department of Computer Science, School of Computing

Research Title : Agentic AI based Software of the future: from Scale to Trust

Homepage : <https://abhikrc.com/>



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Research Title : Quantum design of superconductivity and correlated phases in layered complex oxides

Homepage : <https://www.physics.nus.edu.sg/faculty/ariando/>



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Research Title : Learning Persistent Agent-Centric Representations for Embodied AI

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Research Title : Unravelling and Targeting the Divisome in Bacterial Cell Division

Homepage : <https://www.dbs.nus.edu.sg/staffs/luo-min/>



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Research Title : Fundamental Limits of Language Models via Information Theory

Homepage : <https://vyftan.github.io/index.html>



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Research Title : From Perception to Understanding: Contextual AI for Anticipatory and Proactive Assistance

Homepage : <https://www.comp.nus.edu.sg/~ayao/>



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Research Title : Dynamic interfaces for next generation Actuators with Nature-mimicry functionalities and Embodied intelligence (DANE)

Homepage : <https://dr.ntu.edu.sg/entities/person/Lee-Pooi-See>



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Research Title : A New Intrinsic-Aware Visual Generation Paradigm

Homepage : <https://dr.ntu.edu.sg/entities/person/Chen-Change-Loy>



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Research Title : Mapping the nanoparticle journey in vivo: Guiding precision targeting

Homepage : <https://dr.ntu.edu.sg/entities/person/Warren-Chan>



Assoc. Prof. Yan Xu

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School of Electrical & Electronic Engineering*

Research Title : Preparing Singapore for Renewable Power Import and Regional Power Grid Interconnection: Toward System Stability, Operational Security, and Market Efficiency

Homepage : <https://dr.ntu.edu.sg/entities/person/Xu-Yan>



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Research Title : (AI)³: Artificial Intelligence for Asian Immune Ageing

Homepage : <https://www.duke-nus.edu.sg/directory/detail/chen-jinmiao>



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Research Title : Harnessing Microproteins to Rescue Mitochondrial Dysfunction in Disease

Homepage : <https://www.duke-nus.edu.sg/directory/detail/lena-ho-wai-mun>



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Research Title : Dynamic interfaces for next generation Actuators with Nature-mimicry functionalities and Embodied intelligence (DANE)

Homepage : [Jonathan Göke](#)



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Institute of Materials Research and Engineering, Polymer Composite*

Research Title : CIRCLE: Circular Plastic Materials Innovation via Reconfigurable Covalent Linkage Engineering

Homepage : [Zibiao Li - A*STAR Research](#)



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*Agency for Science, Technology and Research (A*STAR)*

Institute of Materials Research and Engineering, Optics & Electronics

Research Title : Spatiotemporally controlled light-matter interaction for next-generation photonics

Homepage : [Jinghua Teng - A*STAR Research](#)

CLASS OF 2025



Prof. Tan Choon Hong

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School of Chemistry, Chemical Engineering and Biotechnology

Research Title : Unravelling Nanoscale Chirality: Chiral Cation-Based Synthesis of Chiral Nanoparticles, Enantioselective Catalysis and Biomolecular Recognition

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00404>



Prof. Nripan Mathews

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School of Materials Science & Engineering

Research Title : Printed Logic from Mixed Ionic-Electronic Halides for Sustainable Hybrid Electronics

Homepage : <https://dr.ntu.edu.sg/entities/person/Nripan-Mathews>



Prof. Hilmi Volkan Demir

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Research Title : Single-Photon-Emitting Diodes of Colloidal Quantum Wells: Unravelling Electrically-Driven Single Photon Emission from Highly Stable and Pure Quantum Colloids

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp01195>



Prof. Zhang Hanwang

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College of Computing & Data Science

Research Title : Tokenizing Everything: A Truly Multimodal GPT

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp01149>



Prof Hongyan Wang

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Research Title : Reconceptualizing Golgipathies in Neurodevelopment

Homepage : <https://www.duke-nus.edu.sg/directory/detail/hongyan-wang><https://www.duke-nus.edu.sg/nbd/the-team/faculty-members>



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Research Title : Information Theory at the Quantum Frontier
Homepage : <https://www.cqt.sg/groups/marco-tomamichel/>



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Yong Loo Lin School of Medicine and
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Research Title : One Size Does Not Fit All: Personalized Machine Learning in Psychiatry
Homepage : <https://discovery.nus.edu.sg/3249-boon-thye-thomas-yeo>



Assoc. Prof Yuan Chao

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Research Title : Urban Meteorology Nowcasting: Building Climate Health Resilience for the General Public in the Immediate Living Environment
Homepage : <https://cde.nus.edu.sg/arch/staffs/yuan-chao-dr/>



Assoc. Prof Koh Ming Joo

*National University of Singapore
Department of Chemistry*

Research Title : Earth-Abundant Catalysis: New Opportunities to Redefine Chemical Logic for Sustainable Production of Functional Molecules
Homepage : <https://chemistry.nus.edu.sg/people/koh-ming-joo/>



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Research Title : Logic and Memory Devices beyond CMOS Based on Spin and Electric Polarization
Homepage : <https://cde.nus.edu.sg/mse/staff/chen-jingsheng/>



Assoc. Prof Lu Jiong

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Department of Chemistry*

Research Title : Designer Carbon-Based Quantum Spin Architectures for Quantum Computing
Homepage : <https://lujiongroup.science.nus.edu.sg/>



Prof. Yang Hui Ying

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Department of Materials Science and Engineering

Research Title : Exploring Sodium Storage Mechanisms in Sphalerite SnP-Based High-Entropy Compounds

Homepage : <https://cde.nus.edu.sg/mse/staff/hui-ying-yang/>

CLASS OF 2024



A/P LEE Gim Hee

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Research Title : Teaching Machines to See Our 3D world
Homepage : <https://www.comp.nus.edu.sg/~leegh/>



A/P Divesh AGGARWAL

*National University of Singapore
Centre for Quantum Technologies*

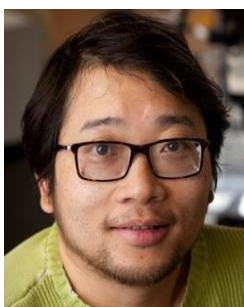
Research Title : Computational Hardness of Lattice Problems and Implications
Homepage : <https://www.comp.nus.edu.sg/cs/people/divesh/>



A/P Mile GU

*Nanyang Technological University
Quantum and Complexity Sciences Initiative*

Research Title : Performing Complex Adaptive Tasks More Efficiently with Autonomous Quantum Agents
Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00674>



Dr LI Qi Jing

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Institute of Molecular and Cell Biology*

Research Title : Harnessing Distant Resident Memory T Cells to Prevent Breast Cancer Metastasis
Homepage : <https://www.a-star.edu.sg/imcb/imcb-research/scientific-programmes/cell-biology-and-therapies/qi-jing-li>



A/P Yasunori SAHEKI

*Nanyang Technological University
Lee Kong Chian School of Medicine*

Research Title : Unravelling the Age-old Question on How Neurons Distribute Cholesterol within the Cell
Homepage : <https://dr.ntu.edu.sg/cris/rp/rp01245>



A/P WU Bin

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Research Title : Transfection-Free in situ Engineering of Receptors and Protein-Based Signaling Molecules

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00246>



Dr Niranjan NAGARAJAN

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Genome Institute of Singapore*

Research Title : Understanding and remodeling microbial communities to prevent the spread of antimicrobial resistant pathogens

Homepage : <https://www.a-star.edu.sg/gis/our-people/faculty-staff/members/niranjan-nagarajan>



A/P Ashley ST JOHN

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Emerging Infectious Diseases*

Research Title : Harnessing Mast Cells to Improve Antigen Presentation and Adaptive Immune Responses

Homepage : <https://www.duke-nus.edu.sg/eid/faculty/tenure-track-faculty/tenure-track-faculty-staff-details/Detail/lauren-st-john-ashley>



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Department of Chemical and Biomolecular Engineering*

Research Title : Multifunctional Organic Materials with Persistent Luminescence

Homepage : <https://cheed.nus.edu.sg/stf/cheliub/>



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School of Materials Science and Engineering*

Research Title : Soft Interconnects in Stretchable Electronic Devices: Overcoming the Achilles' Heel for Extensive Deployment

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00467>



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Research Title : Universal Design Principles for Multivalent-Ion Batteries

Homepage : <https://www.zwseh.com/>

CLASS OF 2023



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Asian School of the Environment*

Research Title : Developing a new platform for assessing volcano hazard through analysis of globally acquired monitoring data

Homepage : <https://earthobservatory.sg/about-us/our-people/benoit-taisne>



Prof CHEN Wei

*National University of Singapore
Department of Chemistry and Department of Physics*

Research Title : Interface Engineered Ferroelectric 2D Materials for Artificial Synapses and Neuromorphic Computing

Homepage : <https://chemistry.nus.edu.sg/people/chen-wei>



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Research Title : Topological Quantum Photonics

Homepage : <http://www1.spms.ntu.edu.sg/~ydchong/bio.html>



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School of Computing and Information Systems*

Research Title : TrustedSEERs: Trusted Intelligent Work Bots for Engineering Better Software Faster

Homepage : <http://www.mysmu.edu/faculty/davidlo>



A/P Dawn TAN

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Engineering Product Development*

Research Title : Nonlinear Integrated Optics: Creating, manipulating and harnessing classical and topological modes of light

Homepage : <https://epd.sutd.edu.sg/people/faculty/dawn-tan>



Dr Jay SHIN

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Genome Institute of Singapore*

Research Title : Towards Building Autonomous Genomics: AI-Driven Omics to Drug Discovery

Homepage : <https://www.a-star.edu.sg/gis/our-people/faculty-staff/members/jay-w-shin>



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Research Title : Towards AIoT – Building Intelligence into Sensing, Networking, and Data Analytics of IoT

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00937>



Prof LING Xing Yi

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School of Physical & Mathematical Sciences*

Research Title : SERS Chemical Space to Identify Unknown Chemical/Disease X

Homepage : <https://www3.ntu.edu.sg/home/xyling/Members.htm>



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*Agency for Science, Technology and Research
Infectious Diseases Labs*

Research Title : Predicting and pre-empting the next alphavirus outbreaks using comparative proteomics and experimental evolution

Homepage : <https://www.a-star.edu.sg/idlabs/about-us/people/our-investigators/marco-vignuzzi>



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Research Title : Understanding and Engineering Immunity to Combat Plant Infection: Molecular Condensation at the Interface of Plant-Microbe Communication

Homepage : <https://www.ntu.edu.sg/sbs/research/research-directory/Miao-Yansong>



Prof Praveen LINGA

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Research Title : Solidified Natural Gas (SNG) Storage Technology

Homepage : <https://cde.nus.edu.sg/chbe/staff/chep1/>



Dr TAM Wai Leong

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Research Title : Understanding the metabolic milieu of the tumor microenvironment for niche-based therapy

Homepage : <https://www.a-star.edu.sg/gis/our-people/faculty-staff/members/wai-leong-tam>



A/P Thomas PEYRIN

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MAS Division Research*

Research Title : Interpretable and Automated Cryptanalysis for Tailor-Made Cryptographic Design

Homepage : <https://thomaspeyrin.github.io/web/>



Dr WAN Yue

*Agency for Science, Technology and Research
Genome Institute of Singapore*

Research Title : Developing high throughput technologies to study RNA structure and function

Homepage : <https://www.a-star.edu.sg/gis/our-people/faculty-staff/members/yue-wan>



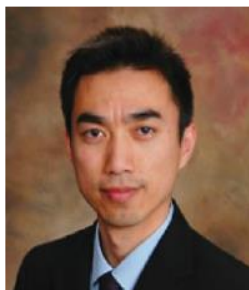
A/P ZHAO Dan

*National University of Singapore
Department of Chemical & Biomolecular Engineering*

Research Title : In-Situ Investigation of Soft Porous Materials for Gas Adsorption and Separation

Homepage : <https://cde.nus.edu.sg/chbe/staff/chezhao/>

CLASS OF 2022



Dr FU Yu

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Institute of Molecular and Cell Biology*

Research Title : Investigating Neuronal Mechanisms of Obesity and its Treatment by
Bariatric Surgery for Future Therapeutic Strategy

Homepage : <https://research.a-star.edu.sg/researcher/yu-fu/>



A/P Oliver MUELLER-CAJAR

*Nanyang Technological University
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Research Title : Understanding the Birth, Life and Death of the highly specific red CO₂-fixing
Rubiscos to unlock enhanced photosynthetic efficiencies

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00530>



A/P Frank RHEINDT

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Department of Biological Sciences*

Research Title : A Combined Museomic and 'Earth history-guided' Field Approach to
Discover the World's Last Undetected Centers of Species Endemism

Homepage : <https://www.dbs.nus.edu.sg/staffs/frank-rheindt/>

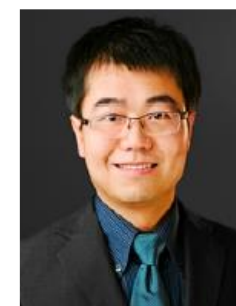


A/P YEONG Wai Yee

*Nanyang Technological University
School of Mechanical & Aerospace Engineering*

Research Title : 3D Bioelectronics Tissue Towards Tissue-Electronics Interface and Precision
Medicine

Homepage : <https://dr.ntu.edu.sg/cris/rp/rp00184>



A/P YAN Ning

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Research Title : Green Amines for a Sustainable Future

Homepage : https://greenenergy.nus.edu.sg/our_team/academic-staff/ning-yan/



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Research Title : Optical Artificial Urinary Biomarkers for Next-Generation Home Diagnostics

Homepage : <https://personal.ntu.edu.sg/kypu/Group%20Members1.html>



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Research Title : Thermogels for Therapeutic Applications (THETA)

Homepage : <https://www.a-star.edu.sg/imre/about-us/leadership-team>



Prof KINJO Rei

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Research Title : Precise Chemical Construction of Two-Dimensional Boron Materials

Homepage : <https://personal.ntu.edu.sg/rkinjo/>

CLASS OF 2020



A/P Kevin PETHE

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Lee Kong Chian School of Medicine*

Research Title : Bacterial metabolic adaptation during host colonisation and persistence
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A/P Joel YANG Kwang Wei

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Engineering Product Development*

Research Title : 3D Nanostructured Optics with Designer Elements (NODE) to Shape and Control Light
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A/P Shaffique ADAM

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Research Title : Moiré scale engineering of atomically thin materials to achieve higher-temperature superconductivity
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Research Title : The next-generation non-volatile memory: towards THz operation
Homepage : https://www.ece.nus.edu.sg/stfpage/eleyang/peop_pi.html



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Research Title : Towards Building Trustworthy and Robust Intelligent Systems and its Application on Human Brain
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CLASS OF 2019



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Research Title : Finding the locus of evolution of a novel complex trait

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Research Title : Engineering Biology to Reprogramme Microbiome

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Research Title : Photon Management for Energy Conversion and Imaging Applications

Homepage : https://chemistry.nus.edu.sg/people/academic_staff/liuxg.htm



Prof WU Jishan

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Research Title : Toward Carbon-Based Magnets

Homepage : https://chemistry.nus.edu.sg/people/academic_staff/wujs.htm



A/P Emma HILL

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Asian School of the Environment

Research Title : Space-borne Geodesy and Remote Sensing for Understanding Natural Hazards, Sea-level Change and Disaster Response in Asia

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Research Title : Senior-friendly Persuasive AI Companions for an Aging Population

Homepage : www.ntulily.org/ascymiao



A/P GOTO Atsushi

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School of Physical and Mathematical Sciences*

Research Title : Polymer Design Platform via Organocatalysis for Advanced Polymer Materials

Homepage : www1.spms.ntu.edu.sg/~chemistry/FacultyResearch/Individual%20Faculty/GOTOAtsushi.htm



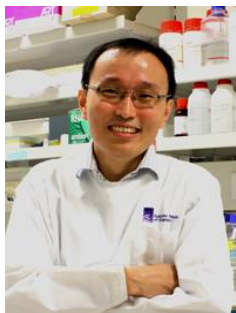
Prof Archan MISRA

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Research Title : Coordinated Cyber-physical Sensing & Edge Analytics

Homepage : <https://www.smu.edu.sg/faculty/profile/9632/Archan-MISRA>

CLASS OF 2018

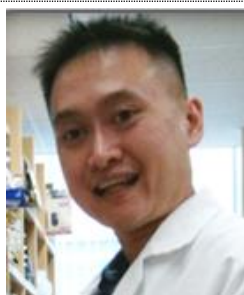


Dr KHOR Chiea Chuen

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Research Title : Deciphering the genetic architecture of age-related diseases using eye diseases as the paradigm

Homepage : <https://www.a-star.edu.sg/gis/our-people/platform-leaders>



Dr Jonathan Yuin-Han LOH

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Research Title : Single-cell Transcriptome and Accessibility Regions (STAR) for analyzing cell fates plasticity and heterogeneity of complex tissues

Homepage : <https://research.a-star.edu.sg/researcher/jonathan-loh-yuin-han/>



Dr Bruno REVERSADE

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Research Title : Realize the Translational and Therapeutic Potential of the ELABELA-nergic Pathway

Homepage : <https://research.a-star.edu.sg/researcher/bruno-reversade/>



A/P Virgile VIASNOFF

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Research Title : Synthetic epithelial morphogenesis: a new perspective from mechanobiology

Homepage : <https://mbi.nus.edu.sg/virgile-viasnoff/>



Prof LU Yixin

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Research Title : Phosphine Catalysis: New Heights in Asymmetric Synthesis, Applications to Medicinal Chemistry & Potentials in Green, Sustainable Production

Homepage : https://www.chemistry.nus.edu.sg/people/academic_staff/luyx.htm



A/P WANG Qing

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Research Title : "E-blood": Simultaneous Powering and Cooling of Microchips for Energy Resilient and Power Efficient Computing

Homepage : www.mse.nus.edu.sg/staff/wq.php



Prof Barbaros ÖZYILMAZ

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Research Title : Engineer a robust platform for topological quantum computation using 2D materials

Homepage : <https://www.physics.nus.edu.sg/staff/barbaros.html>



A/P ZHAO Yanli

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School of Physical and Mathematical Sciences*

Research Title : Smart supramolecular prodrug systems for combination cancer theranostics

Homepage : http://www.ntu.edu.sg/home/zhaoyanli/Yanli_Zhao_Research_Group/Yanli_Zhao.html



A/P SUM Tze Chien

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School of Physical and Mathematical Sciences*

Research Title : Towards >44% Perovskite Solar Cells

Homepage : www.ntu.edu.sg/home/tzechien/spms/research_group.html

CLASS OF 2017



Dr Arseniy KUZNETSOV

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Institute of Materials Research and Engineering*

Research Title : Sub-wavelength-resolution spatial light modulators based on active nanoantennas and metasurfaces

Homepage : <https://research.a-star.edu.sg/researcher/arseniy-kuznetsov/>



Dr Florent GINHOUX

*Agency of Science, Technology and Research
Singapore Immunology Network*

Research Title : iPSC-derived tissue organoids as a platform to model and study neurodegenerative disorders

Homepage : <https://www.a-star.edu.sg/sign/people/principal-investigators/florent-ginhoux>



Dr Nicholas BARKER

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Research Title : Identifying Novel Lgr5+ Stem Cell Populations & Evaluating their Roles in Epithelial Homeostasis, Repair and Cancer

Homepage : <https://research.a-star.edu.sg/researcher/nick-barker/>



Prof GONG Jiangbin

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Research Title : Quantum control approach to new topological phases of matter

Homepage : <http://www.physics.nus.edu.sg/~phygi/>



Prof David SILVER

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Cardiovascular & Metabolic Disorders Programme*

Research Title : Mechanism-based molecular lipid nutrition and therapeutics for healthy brain development and function

Homepage : <https://www.duke-nus.edu.sg/cvmd/content/david-silver>



A/P Fidel COSTA

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Homepage : <http://www.earthobservatory.sg/people/fidel-costa>



Prof CHEN Xiaodong

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Research Title : Conformal electronic devices based on silk protein: Adding autonomy to an ancient material

Homepage : <http://www.ntu.edu.sg/home/chenxd/>



Prof Srinivasan MADHAVI

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Research Title : Water-based rechargeable battery chemistries for new generation of safe, high energy density sustainable energy storage devices

Homepage : <http://web.mse.ntu.edu.sg/homepages/madhavi/>



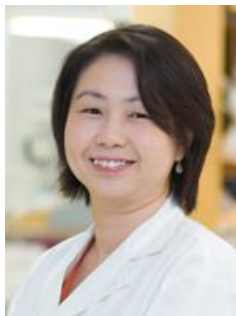
Prof PHAN Anh Tuan

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Research Title : Structurally and chemically controlled G-quadruplex DNA: Understanding and application in therapeutics

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CLASS OF 2016



A/P LOK Shee Mei

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Emerging Infectious Diseases Program*

Research Title : Understanding Possible Structural Variations of Dengue Virus Particles and Their Implications in the Design of Effective Vaccine and Therapeutic Agents

Homepage : <https://www.duke-nus.edu.sg/content/lok-shee-mei>



Prof YU Hao

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Research Title : Unravelling the Mechanism of Macromolecular Trafficking in Plants

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Research Title : Understanding and Altering Mechanosensing of Cells

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Prof LEE Pooi See

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Prof CHI Yonggui, Robin

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School of Physical and Mathematical Sciences

Research Title : Opportunities with Carbene Organocatalysis: New Activation Modes &
Metal-Free Rapid Green Access to Functional Molecules

Homepage : <http://www.ntu.edu.sg/home/robinchi/>



Prof PHEE Soo Jay, Louis

Nanyang Technological University

School of Mechanical and Aerospace Engineering

Research Title : Extending the Reach of Flexible Robotic Surgery

Homepage : [http://research.ntu.edu.sg/expertise/academicprofile/
Pages/StaffProfile.aspx?ST_EMAILID=MSJPHEE](http://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=MSJPHEE)



Prof Hilmi Volkan DEMIR

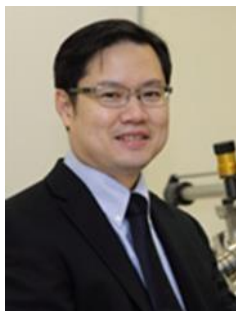
Nanyang Technological University

School of Electrical and Electronic Engineering

Research Title : Emerging Colloidal Quantum Optoelectronics of Solution-Processed
Atomically-Flat Nanocrystals

Homepage : [http://research.ntu.edu.sg/expertise/academicprofile/
Pages/StaffProfile.aspx?ST_EMAILID=HVDEMIR](http://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=HVDEMIR)

CLASS OF 2015



Prof LOH Kian Ping

*National University of Singapore
Department of Chemistry*

Research Title : Graphene Oxide: a New Class of Catalytic, Ionic and Molecular Sieving Material

Homepage : https://www.chemistry.nus.edu.sg/people/academic_staff/lohkp.htm



Prof LIU Bin

*National University of Singapore
Department of Chemical and Biomolecular Engineering*

Research Title : Aggregation Induced Emission: A Revolutionary Path to Molecular Probes and Theranostic Nanoplatfoms

Homepage : <http://www.chbe.nus.edu.sg/faculty/cheliub>



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*Nanyang Technological University
School of Physical & Mathematical Sciences*

Research Title : Expanding the toolbox of laser cooling towards the next-generation optical refrigeration

Homepage : http://www1.spms.ntu.edu.sg/~qihuagroup/Group_Principle%20Investigator.html



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Research Title : Magnetic Interactions for Spin Topology

Homepage : <http://phynelab.org/Staff/christos-panagopoulos/>



Prof Markus WENK

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Department of Biochemistry and Department of Biological Sciences*

Research Title : Defining Natural Boundaries of Lipidomic Variations

Homepage : <http://bch.nus.edu.sg/bchmrw.htm>



A/P Paul MACARY

*National University of Singapore
Yong Loo Lin School of Medicine*

Research Title : Molecular Engineering of Fully Human Monoclonal Antibodies

Homepage : <https://medicine.nus.edu.sg/researchers/macary-paul-a/>



Prof Kanaga SABAPATHY

*Duke-NUS Medical School
Cancer & Stem Cell Biology Program*

Research Title : Unravelling the Mechanistic Basis of Tumour Suppression vs. Tumour
Promotion by p73 - a Paradigm for Cell-fate Choice by Transcription Factors

Homepage : <https://www.duke-nus.edu.sg/content/sabapathy-kanaga>
