The Singapore National Research Foundation (NRF) Fellowship Scheme is a competitive programme that seeks to attract, recruit and root outstanding young scientists from around the world to conduct independent research in Singapore.

The Singapore NRF Fellowship Scheme aims to build up a pool of bright, passionate researchers in various fields of science and technology to help us advance our scientific and technological edge.

### CLASS OF 2020

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Research Title</th>
<th>Homepage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr QIAO Yuan</td>
<td>Nanyang Technological University</td>
<td>A Chemical Biology Approach to Investigate the Structures and Functions of Blood Peptidoglycan-ome in Human</td>
<td><a href="https://www.yqiaolab.com/home">https://www.yqiaolab.com/home</a></td>
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<tr>
<td>Dr Yvonne GAO</td>
<td>National University of Singapore</td>
<td>Enabling Scalable Quantum Computation via a Programmable Quantum Router</td>
<td></td>
</tr>
</tbody>
</table>
Dr Pieremanuele CANEPA
National University of Singapore
Department of Materials Science and Engineering

Research Title: Designing Functional Interfaces of Batteries Using Theory and Computation
Homepage: https://caneparesearch.org/

Dr Christopher LEE
Nanyang Technological University
School of Electrical and Electronic Engineering

Research Title: Development of Novel Electric Machine Systems with Gearless Structure for Emerging Applications
Homepage: http://research.ntu.edu.sg/expertise/academicprofile/pages/StaffProfile.aspx?ST_EMAILID=chtlee

Dr Hortense LE FERRAND
Nanyang Technological University
School of Mechanical and Aerospace Engineering

Research Title: Additive manufacturing of resilient, strong and functional composites through bio-inspired microstructures.
Homepage: https://hortenseleferrand.wixsite.com/hortenseleferrand

Dr YANG Bo
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School of Physical and Mathematical Science

Research Title: Interplay between Geometry and Topology: Effective Theories and Novel Manipulations in Low-dimensional Strongly Correlated Topological Materials
Homepage: https://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=YANG.BO&CategoryDescription=Physics

Dr Perrine HAMEL
Nanyang Technological University
Asian School of the Environment

Research Title: Designing resilient and inclusive cities in Asia-Pacific
Homepage:  
# CLASS OF 2019

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Research Title</th>
<th>Homepage</th>
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<tbody>
<tr>
<td>Dr Aron MELTZNER</td>
<td>Nanyang Technological University, Asian School of the Environment</td>
<td>Sea-level and land-level change in Southeast Asia: A geological approach to quantifying hazard from rising seas and earthquakes</td>
<td><a href="https://earthobservatory.sg/research-group/geology-earthquakes-and-sea-level-aron-meltzner">https://earthobservatory.sg/research-group/geology-earthquakes-and-sea-level-aron-meltzner</a></td>
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<tr>
<td>Dr CHEN Qing Lian, Patricia</td>
<td>National University of Singapore, Department of Psychology</td>
<td>Scalable Interventions to Cultivate Strategically Self-Regulated Learners</td>
<td><a href="https://www.patriciachen.com/">https://www.patriciachen.com/</a></td>
</tr>
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<td>Dr Franklin ZHONG Lei</td>
<td>Nanyang Technological University, Lee Kong Chian School of Medicine</td>
<td>Targeting innate immune sensors to develop novel immune-modulatory therapeutics</td>
<td><a href="http://www.lkmmedicine.ntu.edu.sg/aboutus/Faculty-and-Staff/Pages/Franklin-Zhong.aspx">http://www.lkmmedicine.ntu.edu.sg/aboutus/Faculty-and-Staff/Pages/Franklin-Zhong.aspx</a></td>
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<tr>
<td>Dr Jonathan SCARLETT</td>
<td>National University of Singapore, Department of Computer Science</td>
<td>Robust Statistical Learning Under Model Uncertainty</td>
<td><a href="https://www.comp.nus.edu.sg/~scarlett/">https://www.comp.nus.edu.sg/~scarlett/</a></td>
</tr>
<tr>
<td>Dr LIM Ci Wen Charles</td>
<td>National University of Singapore, Department of Electrical &amp; Computer Engineering</td>
<td>Framework for Practical Quantum Communication with Untrustworthy Devices</td>
<td><a href="https://www.ccwlim.com/">https://www.ccwlim.com/</a></td>
</tr>
</tbody>
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Dr Qian HE  
*National University of Singapore*  
*Department of Materials Science & Engineering*

Research Title: Electron Microscopy for Catalyst Discovery and Innovation  
Homepage: [https://www.eng.nus.edu.sg/mse/staff/he-qian/](https://www.eng.nus.edu.sg/mse/staff/he-qian/)

---

Dr SHAM Lok To, Chris  
*National University of Singapore*  
*Department of Microbiology & Immunology*

Research Title: Exploiting capsule synthesis pathway in Streptococcus pneumoniae to identify new antimicrobial compounds.  
Homepage: [http://medicine.nus.edu.sg/mbio/About-Us/Academic-Staff.html](http://medicine.nus.edu.sg/mbio/About-Us/Academic-Staff.html)

---

Dr YU Jing  
*Nanyang Technological University*  
*School of Materials Science & Engineering*

Research Title: Bio-inspired adhesives for wet environment: Molecular Designs to Applications  
CLASS OF 2018

Dr Vincent TAN
National University of Singapore
Department of Electrical and Computer Engineering
Research Title: Fundamental Performance Limits for Statistical Learning Algorithms
Homepage: https://www.ece.nus.edu.sg/stfpage/vtan

Dr LOH Huanqian
National University of Singapore
Department of Physics
Research Title: Designing Novel Quantum Materials at the Microscopic Level with Ultracold Molecules
Homepage: http://www.physics.nus.edu.sg/staff/lohhq.html

Dr NG Shi Yan
Agency for Science, Technology and Research (A*STAR)
Institute of Molecular and Cell Biology
Research Title: Investigating Altered Metabolic Pathways in Neurodegeneration using Organoids

Dr LI Yinghui
Nanyang Technological University
School of Biological Sciences
Research Title: Role of non-canonical NF-kB signaling in the transcriptional and epigenetic reprogramming of malignant cancers
Homepage: http://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=LIYH&CategoryDescription=BiomedicalSciencesLifeSciences&print=1

Dr Matteo SEITA
Nanyang Technological University
School of Mechanical and Aerospace Engineering
Research Title: Layerwise microstructure scanner: A new technology for online materials assessment in additive manufacturing
Homepage: http://www.ntu.edu.sg/home/mseita/
Dr David LALLEMANT
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Research Title: Analytics for Dynamic Urban Risk and Disaster Impact Modeling
Homepage: http://david-lallemant.com/

Dr Georgios PILIOURAS
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Research Title: Algorithmic Prediction and Practical Control of Large Scale Population Dynamics
Homepage: http://people.sutd.edu.sg/~georgios/
Dr Derrick ONG  
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Yong Loo Lin School of Medicine  
Research Title: Mechanisms of Aberrant Brain Stem Cell Behavior: Implications in Aging and Gliomagenesis  
Homepage: http://medicine.nus.edu.sg/phys/Staff_Fac_Acad_Ong.html

Dr Li Jingmei  
Agency for Science, Technology and Research (A*STAR)  
Genome Institute of Singapore  
Research Title: Identification of women at high-risk of breast cancer in Singapore: Towards more effective primary prevention  

Dr CHEN Qingfeng  
Agency for Science, Technology and Research (A*STAR)  
Institute of Molecular and Cell Biology  
Research Title: Development of Humanized Mouse Model to Study Human Specific Immune Responses, Pathogenesis and Drug Discovery of Human Systemic Lupus Erythematosus  
Homepage: https://www.a-star.edu.sg/imcb/Science/Investigators/Pls/Pls-Profile/ResearchListID/21

Dr SEH Zhi Wei  
Agency for Science, Technology and Research (A*STAR)  
Institute of Materials Research and Engineering  
Research Title: Multivalent Energy Storage for a Sustainable Future: A Quest beyond Lithium-Ion Technologies  
Homepage: http://www.zwseh.com/

Dr Lena HO  
Duke-NUS Medical School  
Research Title: Finding Gems in Disguise: Novel Peptides and Hormones from Long Non-Coding RNAs Significance, Utility and Therapeutic Potential  
Homepage: https://www.duke-nus.edu.sg/content/lena-ho
Dr Thomas YEO
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Research Title: Unsupervised Machine Learning of Mental Disorder Factors From Magnetic Resonance Imaging
Homepage: https://sites.google.com/site/yeoyo02/

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Department of Electrical and Computer Engineering
Research Title: Small-scale Wireless Devices for Bioelectronic Therapies
Homepage: https://www.ece.nus.edu.sg/stfpage/hsyj/index.html

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Research Title: Nature-inspired digital devices and networks for multi-scale environment sensing
Homepage: http://www.benjamintee.com/

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Research Title: Data-Driven Strategic Collaboration
Homepage: http://www.comp.nus.edu.sg/~zick/

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School of Computer Science and Engineering
Research Title: Unifying Spectral Networks and Sparse Representations for Big Data Science
Homepage: http://www.ntu.edu.sg/home/xbresson/

Dr Bent WEBER
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School of Physical and Mathematical Sciences
Research Title: Atomic Manipulations in 2D Materials for Quantum Computation Applications
Homepage: http://weber-lab.com/
CLASS OF 2016

Dr Manvendra SINGH
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Cardiovascular and Metabolic Disorders Program

Research Title: Role of Hippo Signalling in the Epicardium: Expanding the Outer Limit of Heart Repair
Homepage: https://www.duke-nus.edu.sg/cvmd/content/manvendra-singh

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Research Title: Enhancing the Efficiency of Modelling and Simulating Complex Systems via Quantum Mechanics
Homepage: http://www.milegu.org

Dr FOO Jia Nee
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Neuroscience and Mental Health Programme, Lee Kong Chian School of Medicine

Research Title: Genetic and genomic approaches to unlock the secrets of neurological diseases
Homepage: http://www.lkcmedicine.ntu.edu.sg/aboutus/Faculty-and-Staff/Pages/Foo-Jia-Nee.aspx

Dr Caroline BOUVET DE MAISONNEUVE
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Research Title: Assessing the Volcanic Hazard for Singapore
Homepage: http://www.earthobservatory.sg/people/caroline-bouvet-de-maisonneuve

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Research Title: Topological electronics and opto-electronics (TEAO): van der Waals heterostructures as a platform for new valley, spin, energy, and charge manipulation in devices
Homepage: https://sites.google.com/site/justinsong/
Dr TEE Wee Wei  
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*Institute of Molecular and Cell Biology*

Research Title: DNA Topological and Epigenetic Regulation in Neurodevelopment and Disease  
Homepage: [https://wwteelab.com/](https://wwteelab.com/)

Dr Hady Wirawan LAUW  
*Singapore Management University*  
*School of Information Systems*

Research Title: Dimensionality Reduction for Recommender Systems: Unified Latent Co-representation of Multi-Modal Preference Signals  
CLASS OF 2015

Dr Yvonne TAY  
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Research Title: MicroRNA and competing endogenous RNA crosstalk: Post-transcriptional regulatory networks in cancer pathogenesis and therapeutics  
Homepage: [http://bch.nus.edu.sg/bchtmsy.htm](http://bch.nus.edu.sg/bchtmsy.htm)

Dr KIM Young-Jin  
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Research Title: Ultra-precision Dimensional Metrology using Femtosecond Laser Frequency Combs

Dr GAO Weibo  
Nanyang Technological University  
School of Physical & Mathematical Sciences  
Research Title: Quantum manipulation of hybrid solid state system  
Homepage: [http://www1.spms.ntu.edu.sg/~weibogroup/](http://www1.spms.ntu.edu.sg/~weibogroup/)

Dr TAM Wai Leong  
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Genome Institute of Singapore  
Research Title: Integrated strategies to target the vulnerabilities of cancer stem cells  

Dr Daniel MESSERSCHMIDT  
Agency for Science, Technology and Research (A*STAR)  
Institute of Molecular and Cell Biology  
Research Title: Mechanisms of epigenetic reprogramming and its implications in complex human diseases  
Homepage: [https://www.a-star.edu.sg/imcb/Science/Investigators/Pls/Pls-Profile/ResearchListID/69](https://www.a-star.edu.sg/imcb/Science/Investigators/Pls/Pls-Profile/ResearchListID/69)

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Temasek Life Sciences Laboratory Limited  
Developmental Biology  
Research Title: Investigating the Interactions between Type 2 Diabetes and Neurodegeneration  
CLASS OF 2013

Dr Joseph FITZSIMONS
Singapore University of Technology and Design
Engineering Product Development (EPD)

Research Title: Methods for Verifying Quantum Computation

Dr Takaomi SANDA
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Cancer Science Institute of Singapore

Research Title: Novel Therapeutics Targeting the Core Regulatory Circuits in Human T-cell Acute Lymphoblastic Leukemia
Homepage: https://www.csi.nus.edu.sg/ws/team/pi/takaomi-sanda

Dr Sylvain BARBOT
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Earth Observatory of Singapore

Research Title: Physics-Based and Data-Driven Predictive modelling of the Earthquake Cycle in Sumatra

Dr Melissa FULLWOOD
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Cancer Science Institute of Singapore

Research Title: Harnessing the Power of Next-Generation DNA Sequencing: Characterization of Human Transcriptomes and Transcriptome Regulation Mechanisms in Gastric Cancer
Homepage: http://fullwoodlab.com/

Dr Judith HUBBARD
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Earth Observatory of Singapore

Research Title: Assessing seismic hazards in Southeast Asia by characterizing the geometries and slip histories of active faults
Homepage: https://sites.google.com/site/judithahubbard/
Dr QUEK Su Ying  
National University of Singapore  
Department of Physics  
Research Title: Spin Transport across Interfaces in Emerging Materials - Towards Materials Design for Next Generation Data Storage Applications  
Homepage: [http://www.physics.nus.edu.sg/staff/queksy.html](http://www.physics.nus.edu.sg/staff/queksy.html)

Dr LIU Zheng  
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Division of Materials Science  
Research Title: Synthesis, Characterizations and Performance of Novel Two-dimensional Atomic Layers: Hexagonal Boron Nitride (h-BN) and Molybdenum Disulfide (MoS2)  
Homepage: [http://www3.ntu.edu.sg/home/z.liu/index.html](http://www3.ntu.edu.sg/home/z.liu/index.html)

Dr Timothy SAUNDERS  
National University of Singapore  
Mechanobiology Institute, Singapore  
Research Title: Using biophysics to probe the mechanisms of scaling and robustness in development  
Homepage: [http://mbi.nus.edu.sg/timothy-saunders/](http://mbi.nus.edu.sg/timothy-saunders/)

Dr Karen CRASTA  
Nanyang Technological University  
Lee Kong Chian School of Medicine  
Research Title: Molecular mechanisms that dictate cell fate following treatment with anti-mitotic drugs  
Homepage: [http://www1.lkcmedicine.ntu.edu.sg/aboutus/Faculty-and-Staff/Pages/Karen-Crasta.aspx](http://www1.lkcmedicine.ntu.edu.sg/aboutus/Faculty-and-Staff/Pages/Karen-Crasta.aspx)

Dr LAN Shau-Yu  
Nanyang Technological University  
Division of Physics & Applied Physics  
Research Title: Quantum sensor using guided matter waves in optical fibers  
Homepage: [http://www1.spms.ntu.edu.sg/~physics/Home/Faculty/Lan_Shau_Yu.html](http://www1.spms.ntu.edu.sg/~physics/Home/Faculty/Lan_Shau_Yu.html)

Dr Troy LEE  
Nanyang Technological University  
Center for Quantum Technologies  
Research Title: Quantum query complexity, communication complexity, and semidefinite programming: exploring the limits of efficient computation
Dr Mikinori KUWATA
Nanyang Technological University
Division of Earth Sciences

Research Title: Atmospheric Organic Aerosol in the Changing Environment of Southeast Asia
CLASS OF 2012

Dr Shaffique ADAM  
Yale-NUS College
Research Title: Harnessing Interacting Dirac Fermions for Future Technology  
Homepage: https://sites.google.com/site/shaffiqueadam/home

Dr CHONG Yidong  
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Division of Physics and Applied Physics
Research Title: Enhancement of optical absorption in coherent photonic structures  
Homepage: http://web.spms.ntu.edu.sg/~ydchong/index.html

Dr Nathalie GOODKIN  
Nanyang Technological University  
Earth Observatory of Singapore
Research Title: The Oceanographic Perspective: Reconstructing seasonal climate variations in the Indo-Pacific using coral geochemical records

Dr LING Xing Yi  
Nanyang Technological University  
Division of Chemistry and Biological Chemistry
Research Title: Engineering Plasmonic Nanocrystal Super-lattices for Emerging Optical Properties and Sensing Applications  
Homepage: http://www3.ntu.edu.sg/home/xyling/index.htm

Dr Katsutomo OKAMURA  
Temasek Life Sciences Laboratory Limited  
Genome Structural Biology
Research Title: Mechanisms of miRNA biogenesis: Substrate recognition by the miRNA processing enzymes and regulation of miRNA stability
Dr Thomas PEYRIN
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Division of Mathematical Sciences

Research Title: Analysis and Conception of Symmetric Key Cryptography Primitives
Homepage: https://sites.google.com/site/thomaspeyrin/

Dr SUN Lei
Duke-NUS Medical School
Cardiovascular & Metabolism Disorders Program

Research Title: Regulation of Brown Fat Development by Non-coding RNAs
Homepage: https://www.duke-nus.edu.sg/content/sun-lei

Dr Fumio MOTEGI
Temasek Life Sciences Laboratory Limited
Cell Biology

Research Title: The Mechanisms of Breaking Cellular Symmetry in Metazoan Development
Homepage: http://www.tll.org.sg/group-leaders/motegi-fumio/

Dr Slaven GARAJ
National University of Singapore
Department of Physics

Research Title: Graphene nanopore platform for single-molecule DNA analysis and physical DNA sequencing
Homepage: http://nanopore.science.nus.edu.sg/
CLASS OF 2011

Dr CHO Nam-Joon
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Division of Materials Technology

Research Title: Combating Infectious Diseases: Engineering Strategies for Molecular Virology
Homepage: https://www.namjooncho.com/

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Research Title: Novel Electronic and Opto-electronic Materials from Two-Dimensional Layered Transition-Metal Dichalcogenide Nanosheets

Dr Emma HILL
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Earth Observatory of Singapore

Research Title: Towards a better understanding of climate change and natural hazards in and around Southeast Asia through geodetic data combination
Homepage: http://www.earthobservatory.sg/people/emma-hill

Dr Pakorn (Tony) KANCHANAWONG
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Research Title: Mechanotransduction by Integrin-mediated Cell Adhesions
Homepage: http://mbi.nus.edu.sg/pakorn-tony-kanchanawong/

Dr Ali MISEREZ
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Research Title: Frontiers in Physical and Life Sciences: Bio-Inspired and Biomimetic Materials
Homepage: http://www.ntu.edu.sg/home/ali.miserez/index.html

Updated as at December 2019
Dr Mankei TSANG  
*National University of Singapore*  
*Department of Electrical and Computer Engineering*

**Research Title**: General Theory of Quantum Sensors: Estimation, Control, and Fundamental Limits  
**Homepage**: [https://sites.google.com/site/mankeitsang/home/mankei](https://sites.google.com/site/mankeitsang/home/mankei)

---

Dr WANG Xianfeng  
*Nanyang Technological University*  
*Earth Observatory of Singapore*

**Research Title**: Tracking hydro-climate variation in the tropical Indo-Pacific with highly resolved cave records  
**Homepage**: [http://www.earthobservatory.sg/people/wang-xianfeng](http://www.earthobservatory.sg/people/wang-xianfeng)

---

Dr WU Min  
*National University of Singapore*  
*Mechanobiology Institute, Singapore*

**Research Title**: Regulation of Endocytosis by Curvature-Generating Proteins and the Actin Cytoskeleton  
**Homepage**: [http://wulab.tiddlyspot.com/](http://wulab.tiddlyspot.com/)

---

Dr ZHAO Yu  
*National University of Singapore*  
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**Research Title**: New Catalysis Concepts and Methods for More Efficient and Economical Chemical Synthesis And Improvement of Chemistry Tools for Biological Labeling  
**Homepage**: [https://zhaoyugroup.sg/](https://zhaoyugroup.sg/)

---

Dr Kimberly Ann KLINE  
*Nanyang Technological University*  
*Singapore Centre on Environmental Life Sciences Engineering (SCElse)*

**Research Title**: Localized Virulence Factor Assembly in Gram Positive Bacteria: Mechanism of Coordination and Therapeutic Targeting  
**Homepage**: [http://kimberlyklinelab.com/](http://kimberlyklinelab.com/)

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*Updated as at December 2019*
CLASS OF 2010

**Dr GAO Yonggui**  
*Nanyang Technological University*  
*Division of Structural Biology & Biochemistry*

*Research Title*: Structure and functional interactions of translational factors with ribosome by X-ray crystallography  
*Homepage*: [http://www.ntu.edu.sg/home/ygao/Site/Home.html](http://www.ntu.edu.sg/home/ygao/Site/Home.html)

**Dr LEE Sang Hyun**  
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*Research Title*: The mechanisms of chromosomal instability in human cancers and development of novel anti-mitotic cancer therapies

**Dr Christian NIJHUIS**  
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*Research Title*: Self-assembled organic-inorganic nanostructures to solve longstanding problems in Physics  
*Homepage*: [https://www.chemistry.nus.edu.sg/people/academic_staff/Nijhuis.htm](https://www.chemistry.nus.edu.sg/people/academic_staff/Nijhuis.htm)

**Dr Adam SWITZER**  
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*Research Title*: Geological records of coastal hazards in southeast Asia  
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**Dr TEO Yik Ying**  
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*Research Title*: Modeling complex interactions in the genetics and genomics of common phenotypes and infectious diseases  
*Homepage*: [https://sph.nus.edu.sg/about/faculty-directory/teo-yik-ying](https://sph.nus.edu.sg/about/faculty-directory/teo-yik-ying)
Dr Joanne YEW  
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**Research Title**: Understanding the role of chemical communication in insect social behavior: Identifying new pheromones, neural circuits and metabolic pathways using novel mass spectrometry methods

---

Dr YU Ting  
*Nanyang Technological University*  
*Division of Physics & Applied Physics*

**Research Title**: Tailoring electronic structure of graphene for nanoelectronic, photonic and phononic applications  
**Homepage**: [http://www1.spms.ntu.edu.sg/~yuting/](http://www1.spms.ntu.edu.sg/~yuting/)  

---

Dr Ronen ZAIDEL-BAR  
*National University of Singapore*  
*Mechanobiology Institute, Singapore*

**Research Title**: Linking cell-cell adhesion with the actin cytoskeleton: Combining genetics and mechano-manipulations to discover novel adaptors in cadherin-based adhesion

---

Dr ZHAO Yanli  
*Nanyang Technological University*  
*Division of Chemistry and Biological Chemistry*

**Research Title**: Light- and pH-operated mechanized nanoparticles as controllable drug delivery systems  
**Homepage**: [http://www.ntu.edu.sg/home/zhaoyanli/index.html](http://www.ntu.edu.sg/home/zhaoyanli/index.html)

---

Dr Swaine CHEN  
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*Department of Medicine*

**Research Title**: Novel evolutionary approaches to studying host-pathogen interactions and infectious diseases  
**CLASS OF 2009**

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**Dr LOK Shee Mei**  
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*Emerging Infectious Diseases Program*

**Research Title**: Identification of dengue therapeutics and determination of its neutralization mechanisms using a combination of immunological, biochemical and structural techniques  
**Homepage**: https://www.duke-nus.edu.sg/content/lok-shee-mei

---

**Dr WANG Hongyan**  
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**Research Title**: Analyzing molecular machinery that regulates neural stem cell self-renewal and differentiation in Drosophila larval brains  
**Homepage**: https://www.duke-nus.edu.sg/content/wang-hongyan

---

**Dr CHI Yonggui Robin**  
*Nanyang Technological University*  
*Division of Chemistry & Biological Chemistry*

**Research Title**: New strategies for selective and site-selection protein modification via local environment and proximal residue-directed cooperative organic catalysis under mild, non-toxic and biocompatible conditions  
**Homepage**: http://www.ntu.edu.sg/home/robinchi/

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**Dr CHEN Xiaodong**  
*Nanyang Technological University*  
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**Research Title**: Nanostructured-Biomaterial hybrid systems for bioelectronics  
**Homepage**: http://www.ntu.edu.sg/home/chenxd/index.html

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**Dr Naohiko YOSHIKAI**  
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**Research Title**: Development of cooperative transition metal catalysis for carbon-carbon bond formation  
**Homepage**: http://www3.ntu.edu.sg/home/nyoshikai/yoshikai_group/Home.html

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Updated as at December 2019
Dr XIONG Qihua
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Research Title: Optical properties of novel nanomaterials and field effect transistor nanopore devices for single molecular detection and DNA sequencing

Homepage: http://www1.spms.ntu.edu.sg/~qihuagroup/index.html

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Research Title: Information theoretical security for wireless communications

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Research Title: Algorithmic aspects of coalitional games

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Research Title: Nanostructured white LEDs of nanocrystal quantum dot emitters for high quality mesopotic solid state lighting

Homepage: http://research.ntu.edu.sg/expertise/academicprofile/Pages/StaffProfile.aspx?ST_EMAILID=HVDEMIR
Dr Gijsbert Marnix GROTKENBERG
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Research Title: Conditional ligands for class I MHC products; application to epitope discovery for Dengue and respiratory syncytial virus-specific CD8+ T-cells

Dr Cynthia HE Yingxin
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Research Title: Morphological and molecular characterization of a bi-lobed structure required for organelle biogenesis and cytokinesis in Trypanosoma brucei
Homepage: http://www.dbs.nus.edu.sg/lab/cynthia/index.html

Dr Eugene MAKEYEV
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Research Title: Understanding molecular mechanisms of post-transcriptional control in neuronal differentiation: a link between microRNAs, alternative pre-mRNA splicing and mRNA quality control

Dr Barbaros ÖZYILMAZ
National University of Singapore
Department of Physics
Research Title: Phase Coherent Charge and Spin Transport in Nanostructured Graphene and Ferromagnet Hybrid Devices
Homepage: http://graphene.nus.edu.sg/barbaros/

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Research Title: Novel Quantum Phases on the Border of Magnetism
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