		List of Host PIs			
	Science / Engineering / Medicine				
No.	Faculty/Institute	Professor / PI	Research Interests		
1	NUS Environmental Research Institute (NERI)	Prof <b>HU</b> Jiangyong	Advanced Oxidation Process, Emerging Contaminants Detection and Removal, Water Disinfection Technology and Biofilm Control, Water reuse and reclamation		
2		A/P Sanjay SWARUP	Metabolites biology, microbiomes in environment and agriculture, integrative systems biology		
3		A/P Olivier Patrick LEFEBVRE	<ul> <li>Industrial wastewater treatment</li> <li>Environmental electrochemistry</li> <li>Advanced oxidations processes</li> <li>Technology transfer</li> <li>Water reuse</li> </ul>		
4		A/P <b>ONG</b> Ghim Ping, Raymond	Waste Plastics Adoption in Road Materials, Sustainable and Energy Harvesting Roads, Electric and Autonomous Vehicles, Sustainable Transportation and Mobility Systems		
5		A/P <b>LAU</b> Siu Kit, Eddie	Noise pollution, Traffic noise modelling and control, Noise mapping		
6		Asst. Prof BAE Sung Woo	Ecotoxicology of microplastics in zebrafish; The relationship of antibiotics and biofilm development; Microbial ecology in natural and engineered systems		
7	Mechanobiology Institute (MBI) – 1 of 2	Prof LIM Chwee Teck	Collective cell migration, Human Disease mechanobiology, Microfluidic technologies for disease detection and diagnosis, Flexible wearable Technologies for Healthcare Applications		
8		A/P <b>LOW</b> Boon Chuan	Cell Signalling, Domain-discovery, Protein- protein Interaction, Structural Biology, Developmental Biology, Computational Biology and Mechanobiology		
9		A/P Yusuke TOYAMA	Tissue dynamics, Apoptosis, Drosophila Development		
10		Prof Rong LI	Cellular dynamics and mechanics, cell and tissue aging and regeneration, chromosomal biology in cellular adaptation		
11		Prof Hanry <b>YU</b>	Cell and Tissue Engineering with a focus on innovative technologies for diagnostics, therapeutics and drug testing applications in pharmaceutical and healthcare industry		
12		Prof YAN Jie	Stability and Interaction of Biomolecules under Mechanical Constraints		
13		Prof Alexander BERSHADSKY	Actin Biomechanics and cell dynamics		
14		A/P Virgile VIASNOFF	Cell-cell adhesion, microfabrication of controlled environment for cell culture, biophysics of single molecules		

	List of Host Professors / PIs			
	- to to an a	Science / Engineering / Mo		
<b>No.</b>	Mechanobiology Institute (MBI) – 2 of 2	A/P Pakorn Tony KANCHANAWONG	Research Interests  Nanoscale Structure-Function Relationship, Super-resolution Microscopy, Cell-Matrix Interactions, Cell-Cell Interactions, Cellular Biophysics, Mechanobiology of Cell Adhesions and Cell Cortex, Computer Vision, Machine Learning, Bioimaging Technology, Bioimage Informatics	
16		Asst. Prof Andrew HOLLE	Cell Migration, Stem Cell Mechanobiology, Cancer Mechanobiology	
17		Asst. Prof Chii Jou (Joe) CHAN	Mammalian oogenesis, embryogenesis, tissue hydraulics, mechanochemical feedback in tissue self-organisation	
18		Asst. Prof Jennifer <b>YOUNG</b>	Tissue nanoenvironment, biomaterials, cell-ECM interactions	
19	Faculty of Science (FoS)	A/P KANG Hway Chuan	Surface Chemistry and Computational Chemistry (Silicon-germanium surfaces/interfaces, Electronic Structure and Reactivity of Nanoclusters of Pure and Mixed Transition metals, Sputtering Dynamics)	
20		Prof Antonia MONTEIRO	Evolution of novel traits, evo-devo, evolution of phenotypic plasticity, and evolution of behavior, primarily using insects and butterflies as study systems.	
21		A/P <b>CHEW</b> Fook Tim	<ul> <li>(a) Allergens and Hypersensitivity;         Epidemiology and Genetics of Asthma,         Allergic Respiratory and Skin Diseases, Acne,         COPD, Bronchiectasis, and Skin Ageing and         Health</li> <li>(b) Genetics of Major Crops, Molecular         Breeding/Genomic Selection and Genetic         Systems in Plant and Animal Breeding,         Large-Scale Plantation-wide Agri-Systems</li> </ul>	
22		Prof Thorsten WOHLAND	Single Molecule Fluorescence Spectroscopy: (a) Development of techniques (microscopy, optics); (b) Machine learning for data evaluation; (c) Measurements in cells and organisms	
23		<u>Prof Valerio <b>SCARANI</b></u>	Quantum science and technologies, foundations	
24		A/P Ariando	Condensed Matter Physics, Strongly Correlated Systems, Superconductivity, Complex Oxides Heterostructures, Moire Physics and heterostructures	
25		A/P WANG Zhisong	Molecular motors, DNA nanotechnology, biomedical applications	
26		A/P Andrivo RUSYDI	Condensed matter physics (experiment & theory), photon science (from optics to x-rays), thin film growth and new technologies based on Mott-insulators	
27		A/P Frank RHEINDT	Population-genomics, phylogenomics, evolutionary biology, conservation science, ornithology, taxonomy	

	List of Host Professors / PIs				
	Science / Engineering / Medicine				
No.	Faculty/Institute	Professor / PI	Research Interests		
28	Solar Energy Research Institute of Singapore (SERIS)	Prof Armin ABERLE	Photovoltaic materials, Crystalline Solar Cells devices and modules, CIGS Solar Cells and Modules		
29		Prof Andrew LIM	Operations Research, Management Science, Big Data Analytics		
30		Prof Philip LIU	Coastal Oceanography and Engineering (water wave theories, tsunamis dynamics, wave-breaking processes, sediment transport processes, and interactions of water waves with structures)		
31		Prof Rajasekhar BALASUBRAMANIAN	Sustainable Development, Climate Change Mitigation, Urban Air Quality, Health Risk Assessment, Aerosol Science and Technology		
32		A/P <b>LAU</b> Siu-Kit, Eddie	Environmental acoustics, Soundscape, Architecture acoustics, Mechanical Noise and Vibration Control, Human perception, Solar energy, Agrovoltaics, Educational research		
33		Prof Iftekhar Abubakar KARIMI	Low-Carbon Energy Systems Modelling		
34		A/P Daniel John BLACKWOOD	Aqueous corrosion		
35	College for Design & Engineering (CDE) – 1 of 2	A/P Stefan ADAMS	Lithium- and sodium-based batteries; all-solid-state batteries; lon transport in solids		
36		A/P <b>KOH</b> Yee Kan	Heat Transfer, thermal comfort, thermoelectrics, radiative cooling		
37		A/P CHUI Chee Kong	Medical Devices; Robotics; Imaging and Vision; Cyber-physical Systems		
38		A/P <b>OUYANG</b> Jianyong	Flexible/wearable electronics and flexible thermoelectrics		
39		Prof <b>HU</b> Jiangyong	Water quality, water treatment and reuse		
40		Dr <b>DU</b> Hongjian	Advanced Manufacturing, Low-carbon Construction		
41		Asst. Prof Filip BILJECKI	GIS, urban data science, artificial intelligence, urban planning, digital twins, geographic data, 3D, building information modelling		
42		A/P Rudi STOUFFS	Circular economy principles applied to building design and construction, and urban and architectural planning and design for adaptation to and mitigation of climate change		

	List of Host Professors / PIs				
	Science / Engineering / Medicine				
<b>No.</b>	Faculty/Institute	Asst. Prof FONG Xuanyao Kelvin	Research Interests  Exploratory computational devices/circuits/systems,  Modeling/simulation/applications of non-volatile electronic devices, Computing		
44		Asst. Prof <b>YANG</b> Kaidi	machinery (neuromorphic/stochastic/Ising) Intelligent Transportation Systems, Intelligent Vehicles		
45		A/P <b>HUANG</b> Zhiwei	Biomedical Optics; Biophotonics and Bioimaging; Advanced Fibreoptic; Raman spectroscopy and imaging; Coherent Raman scattering microscopy; Label-free super- resolution microscopy and imaging; Super- deep volumetric optical bioimaging		
46	College for Design & Engineering (CDE) – 2 of 2	Prof <b>ZHANG</b> YONG	Nanomedicine, Nanobiophotonics, Biomaterials		
47		Asst. Prof <b>SING</b> Swee Leong	Additive manufacturing; 3D printing; Machine learning; Materials		
48		Dr Justin <b>YEOH</b>	Construction Management/ Building information Modeling/ Artificial Intelligence & Machine Learning for Built Environment		
49		Asst. Prof Guillaume Adrien SARTORETTI	Multi-agent systems, multi-robot systems, decentralized control, distributed learning, deep reinforcement learning, legged robots		
50		Asst. Prof YUAN Chao	<ol> <li>Sustainable Urban Planning</li> <li>Future Climate Resilience</li> <li>Multi-physics-scale Microclimate Sensing and Modelling</li> </ol>		
51	Faculty of Dentistry (FoD)	Asst. Prof Gopu SRIRAM	Microfluidic and 3D Printing Technologies for applications in Pulp Regeneration, Periodontal Health, Periodontal Disease, Oral-care and Dental/ Oral/ Craniofacial Tissue Regeneration		
52		A/P Vinicius ROSA	Bioactive materials, personalized dentistry/medicine, dental pulp tissue engineering, hydraulic calcium silicate cements		
53		A/P Stephen <b>HSU</b>	caries risk assessment/prediction; oral- systemic link		
54		Asst. Prof Nileshkumar <b>DUBEY</b>	3D Bioprinting, Electrospinning, Tissue Regeneration, Biofabrication, Drug Delivery		
55	Tropical Marine Science Institute (TMSI)	Prof <b>WONG</b> Sek Man	Molecular Biology of Plant Viruses, Discovery of New Viruses, Virus Replication and Translation Mechanisms		
56		<u>Dr Srivatsan V <b>RAGHAVAN</b></u>	Climatology, Regional Climate Modelling, Climate Change Impacts and Adaptation, Hydrology, Food Security, Climate risk assessments, Sustainability		
57	Yale NUS College	A/P Michiel VAN BREUGEL	Ecology of Forests and Trees in human- modified landscapes		

		List of Host Professors / Pls	
1		Science / Engineering / Medici	
No.			Research Interests
58		Asst. Prof Umang MATHUR	Programming Languages, Formal Methods, Software Engineering
59	School of Computing (SoC)	A/P Stephane BRESSAN	Data management, data analysis, machine learning, and their applications to mathematics, science, engineering, and environmental engineering. South-east Asian natural language processing, information retrieval, and social media and networks analysis.
60		A/P <b>TEO</b> Yong Meng	Parallel & distributed computing, performance modeling including simulation and AI modelling
61		Prof CHUA Tat Seng	Unstructured Multimodal Data Analytics, Multimedia and Social Media Computing, Computational Wellness and Finance, Multimedia Information Processing
62		Prof Marcus <b>ONG</b> Eng Hock	Emergency Medicine, Prehospital Emergency Care, Health Services Research, Data Science, Artificial Intelligence, Medical Devices, Global Health
63		Prof WANG Linfa	Emerging zoonosis and zoonotic diseases, virus host interface, novel diagnostics, vaccine and therapeutics, bat immunology and pathogen discovery
64		Asst. Prof <b>OOI</b> Yaw Shin	Virus-host interactions; discovery of host factors for mosquito-borne viruses and human respiratory viruses
65		Assoc. Prof Ashley Lauren ST JOHN	Viral immunology (Zika viruses, dengue), immune responses to respiratory viral pathogens (respiratory syncytial virus and SARS-CoV-2)
66		Prof Gavin SMITH	Evolutionary genetics, virology, ecology, and infectious disease epidemiology
67	Duke NUS Medical School – 1 of 2	Assoc. Prof LIU Nan	Health data science, Al in medicine, interpretable machine learning, explainable artificial intelligence, and biomedical engineering, with applications to a wide range of clinical domains including emergency and critical care, health service research, cardiology, and many others
68		Asst. Prof Rahul MALHOTRA	(1) Correlates and outcomes of physical and psychosocial health of older adults; (2) Impact of caregiving on caregivers and older care recipients; (3) Health communication and Health literacy; (4) Health expectancy, for spatial and temporal comparison of population health; (5) Scale development, and/or validation of scales for older adult or caregiver outcomes.
69		Prof <b>TEH</b> Bin Tean	Impact of Biodiversity, Herbal Medicine, Nutrition and Microbiome, Plant Genomics and Metabolomics

	List of Host Professors / PIs				
	Science / Engineering / Medicine				
No.	Faculty/Institute	Professor / PI	Research Interests		
71	Duke NUS Medical School – 2 of 2	Prof Paul <b>PRONYK</b>	Genomic surveillance; the design of novel diagnostics/therapeutics/ vaccines; health systems research; global health law; regulatory, procurement and supply chain management; and the links between environment and communicable disease risk		
72		Asst. Prof Hannah CLAPHAM	Infectious disease dynamics and control, Impact of vaccination, Dengue epidemiology and control, Japanese Encephalitis epidemiology and control and Inference from serological data		
73	Saw Swee Hock School of Public Health (SSHSPH)	A/P <b>HSU</b> Li Yang	Methicillin-resistant Staphylococcus aureus: Genomics and Epidemiology Bacterial antibiotic resistance: Epidemiology, Mechanisms, and Intervention		
74		A/P Natasha <b>HOWARD</b>	Global health, Infectious disease control policy and practice, Health systems, particularly issues relevant to low and middle-income countries in Asia and the Middle East, qualitative, mixed and participatory methods		
75		A/P Yann Felix <b>BOUCHE</b>	Discovery and characterization of novel pathogens: genomic taxonomy and epidemiology, Human and environmental reservoirs of enteric pathogens: molecular microbial ecology, Emergence of novel pathogens: experimental evolution and evolution on human timescales		
76		A/P Jeremy LIM	Global Health; Health Economics; Healthcare Services and Management; Health Systems and Policy.		
77		Asst. Prof YI Siyan	Infectious diseases (HIV, sexually transmitted infections, tuberculosis, viral hepatitis), Sexual & reproductive health, Substance abuse & mental health and Harm reduction & human rights		
78		<u>Dr Kiesha <b>PREM</b></u>	Infectious disease modelling, Global Health and Health economic & policy modelling		
79		Asst. Prof Jasper TROMP	Cardiovascular disease in Southeast Asia and Healthcare services & systems		
80	Centre for Sustainable Asian Cities (CSAC)	Prof <b>HENG</b> Chye Kiang	Asian Urban Planning and Design History of Chinese Architecture and Cities		