

2.1 School of Biological Sciences

Overview

Mission

To provide a distinctive university education in the Life Sciences, foster creative thinking, and uphold international standards of excellence in research.

Core Values

Integrity
Creativity
Innovation
Teamwork
Quality science without compromise

The Life Sciences sector has been widely acknowledged as the focus of next major technological revolution. New knowledge and discoveries generated from genome and molecular biology research are having major impact on the pharmaceutical, healthcare, food and nutrition industries as well as the quality of life and the environment. The School of Biological Sciences was established in July 2001 to meet the demand for high quality research scientists required for the advancement of medicine and biotechnology.

In 2004 the School moved to a purpose-built facility on the NTU campus with 30,000 m² of total floor space. The new building contains 60 research laboratories, core instrumentation facilities and an adjoining animal house. The building also houses state-of-the-art classrooms, computer suites and teaching laboratories to provide world-class educational support for undergraduate and graduate students.

The School offers intellectually rigorous curricula that are relevant to Life Sciences, combining detailed study of fundamentals with coverage of the most important advances in cutting-edge research. Graduates from the undergraduate programmes and post-graduate research programmes from the School of Biological Sciences are expected to meet the demands for researchers in the Life Sciences industry. Past graduates also enter the medical profession through further studies in graduate medical schools. The double degree programme, integrating western Biomedical Sciences and eastern traditional Chinese Medicine (TCM), further prepares graduates to be part of the growing TCM clinical and research movement.

Appointment holders

Chair's Office

Faculty members

Professors

Law, Sai-Kit Alex, Ph.D. (Harvard University), Acting Chair & Associate Chair (Research)
Nordenskiöld, Lars, Ph.D. (Stockholm University), Associate Chair (Academic)

Assistant Professors

Sadler, Kristen, Ph.D. (University of Melbourne), Assistant Chair (Exchange and Attachment)
Tan, Nguan Soon, Andrew, Ph.D. (National University of Singapore), Assistant Chair (Undergraduate Affairs), Koh, Cheng Gee, Ph.D. (University of Cambridge), Assistant Chair (Research)

Division of Structural and Computational Biology

Faculty members

Professors

Nordenskiöld, Lars, Ph.D. (Stockholm University), Division Head

Associate Professors

Grüber, Gerhard, Ph.D. (Johannes Gutenberg-University Mainz)
Lescar, Julien, Ph.D. (University Paris XI – Institut Pasteur Paris)
Pervushin, Konstantin, Ph.D. (Moscow Institute of Bioorganic Chemistry)
Torres, Jaume, Ph.D. (Universitat Autònoma de Barcelona)
Yoon, Ho Sup Joe, Ph.D. (University of Chicago)

Assistant Professors

Bhattacharyya, Surajit, Ph.D. (Indian Institute of Science)
Davey, Curtis Alexander, Ph.D. (University of Miami School of Medicine)
Li, Jinming, Ph.D. (Darmstadt University of Technology)
Mu, Yuguang, Ph.D. (Shandong University)

Adjunct Professor

Lun, Kwok Chan, Ph.D. (University of Birmingham)

Adjunct Associate Professor

Verma, Chandra Shekhar, Principal Investigator, Bioinformatics Institute.D.Phil (University of York)

Division of Chemical Biology and Biotechnology

Faculty members

Professors

Nordenskiöld, Lars, Ph.D. (Stockholm University), Acting Head
Tam, James, Ph.D. (University of Wisconsin)

Visiting Professor

Bose, Salil Kumar, Ph.D. (University of Rochester)

Associate Professor

Liu, Chuan Fa, Ph.D. (University of Montpellier)
Geifman Shochat, Susana, Ph.D. (Leiden University)

Assistant Professors

Gong, Xiandi Alex, Ph.D. (University of Hong Kong)
Liang, Zhao-Xun, Ph.D. (Northwestern University)
Lin, Chun Ling Valerie, Ph.D. (University of Reading)
Sadler, Kristen, Ph.D. (University of Melbourne)
Sze, Siu Kwan Newman, Ph.D. (University of Hong Kong)
Tang, Kai, Ph.D. (Vanderbilt University)
Yu, Chin-Wen Kenneth, Ph.D. (University of Western Australia)

Senior Fellow

Ng, Chung Nang (Guangzhou University of Traditional Chinese Medicine)

Lecturers

Zhao Yan, Ph.D. (Beijing University of Chinese Medicine)
Zhong Weiling (Beijing College of Traditional Chinese Medicine)

Adjunct Associate Professor

Hong, Yan, Ph.D. (Peking Union Medical University)

Adjunct Assistant Professor

Cheung, Chong Wing Edwin, Ph.D. (University of Manchester)
Nirthanan, Selvanayagam, Ph.D. (National University of Singapore)

Division of Genomics and Genetics

Faculty members

Professors

Karjalainen, Klaus, Ph.D.(University of Helsinki)

Associate Professors

Dröge, Peter, Dr. rer. nat. habil. (University of Konstanz), Division Head
Chen, Ken-Shiung, Ph.D. (UT Austin)
Preiser Peter Rainer, Ph.D. (Uni. of Delaware)
Kambadur, Ravi, Ph.D. (Post Grad Inst of Med Edn & Res Chandigarh, India)
Feng Zhi Wei, Ph.D. (University of Bern)

Assistant Professors

Bozdech, Zbynek, PhD (McGill University)
Sze, Chun Chau, Ph.D. (Umeå University)
Su, I-Hsin, Ph.D. (University of Cologne)

Adjunct Professors

Ng, Soon Chye Professor, Obstetrics & Gynaecology, O&G Partners Clinic for Women, MBBS (University of Singapore), M.Med (National University of Singapore), MRCOG (Royal College of Obstetricians & Gynaecologists), MD (National University of Singapore)

Adjunct Associate Professors

Lufkin, Thomas Senior Group Leader, Genome Institute of Singapore Ph.D. (Cornell University)

Division of Molecular and Cell Biology

Faculty members

Professors

Featherstone, Mark Stephen, Ph.D. (McGill University)
Law, Sai-Kit Alex, Ph.D. (Harvard University)

Associate Professor

Sugrue, Richard, Ph.D. (University of Kent), Division Head
Ruedl, Christiane, Ph.D. (University of Innsbruck)

Assistant Professors

Cheung, Peter, Ph.D. (University of London)
Heese, Klaus, Ph.D. (University of Basel)
Koh, Cheng Gee, Ph.D. (University of Cambridge)
Li, Hoi Yeung, Ph.D. (Chinese University of Hong Kong)
Liang, Willmann, Ph.D. (University of British Columbia)
Tan, Nguan Soon Andrew, Ph.D. (National University of Singapore)
Tan, Suet Mien, Ph.D. (University of Oxford)
Thanabalu, Thirumaran, Ph.D. (National University of Singapore)

Adjunct Professors

Yoshioka, Tohru, Professor, Waseda University Ph.D. (Hokkaido University)

Adjunct Associate Professors

Lam, Kong Peng, Executive Director, Singapore Immunology Network, Ph.D. (Columbia University)
Liu, Ding Xiang, Associate Professor, Institute of Molecular and Cell Biology M.Sc. (West China University of Medical Sciences), Ph.D. (University of Cambridge)

Adjunct Assistant Professors

Jiang, Yun Jin, Senior Scientist, Institute of Molecular and Cell Biology Ph.D. (Fakultat fur Biologie of Eberhard-Karls Universitat)
Sampath, Karuna, Principal Investigator, Temasek Life Sciences Laboratory, Ph.D. (Indiana State University)