Singapore Immunology Network (SIgN)

Fungal Immunology and Microbiome

Name	Project	Degree By
Dr Norman Pavelka - Principal Investigator - Adj. A/Prof at SBS, NTU norman_pavelka@immunol.a-star.edu.sg	Evolution and ecology of host-fungal-microbiome interactions.	NTU

Bioinformatics

Name	Project	Degree By
CHEN Jinmiao - Principal Investigator - Adj. A/Prof, NUS Chen_Jinmiao@immunol.a-star.edu.sg	1. Develop single-cell artificial intelligent(AI) platform using deep learning 2. Single-cell analysis of cross-talk between tumor and immune cells in human cancers 3. Single-cell analysis of hematopoietic stem and progenitor cell heterogeneity and lineages in health and hematological disorders 4. Building Asian single-cell immune atlas (ASIA) 5. Multiplex immunohistochemistry images for spatial information of different cell sub-types	NUS

Innate immunity, monocytes/macrophage, cancer, metabolism

Name	Project	Degree By
Subhra K Biswas - Principal Investigator - Adj. A/Prof NUS and LKC School subhra_biswas@immunol.a-star.edu.sg	Investigating dysregulated response of monocyte/macrophage in human disease.	NUS/NTU

Immunopathogenesis of Dengue

Name	Project	Degree By
Dr FINK Katja - Principal Investigator - Adj. A/Prof, NTU katja_fink@immunol.a-star.edu.sg	Human anti-viral B cell responses	NTU

Viral Immunity

Name	Project	Degree By
Dr NG Lisa - Principal Investigator - Adj. A/Prof at YYLLSOM, NUS lisa_ng@immunol.a-star.edu.sg	Understanding immune responses against clinically important alphaviruses	NUS

Malaria Immunobiology

Name	Project	Degree By
Dr RÉNIA Laurent Adj A/Prof at YLLSOM, NUS and Adj Prof at SBS, NTU renia_laurent@immunol.a-star.edu.sg	Defining protective immune mechanisms and correlates of protection. Deciphering the immune mechanisms involved in malaria-induced pathologies.	NUS/NTU

Innate Immunity/Inflammation

Name	Project	Degree By
Alessandra Mortellaro Adj Ast/Prof at YLLSOM, NUS Alessandra_Mortellaro@immunol.a-star.edu.sg	Deciphering the mechanisms of inflammation mediated by NOD-like receptors.	NUS
Dr NG Lai Guan - Principal Investigator - Adj. A/Prof at YLLSOM, NUS and SBS, NTU Ng_Lai_Guan@immunol.a-star.edu.sg	1 Myeloid cell trafficking in health and disease. 2 Understanding inflammatory responses by intravital multiphoton microscopy	NUS/NTU

Human Monoclonal Antibodies

Name	Project	Degree By
WANG Cheng-I - Snr Principal Investigator Technologist - Adj. A/Prof at NTU wang_chengi@immunol.a-star.edu.sg	Development of novel antibody-based immunotherapy.	NTU

Immunosenescence

Name	Project	Degree By
Dr Anis LARBI - Principal Investigator - Adj. A/Prof, NUS anis_larbi@immunol.a-star.edu.sg	How our immune system age and what we can do about it.	NUS

T Cell Regulation

Name	Project	Degree By
Dr Olaf Rotzschke Adj A/Prof at NUS, NTU olaf_rotzschke@immunol.a-star.edu.sg	Regulation and genetic control of immune system-related pathways.	NUS/NTU

Immunopathogensis of Tuberculosis

Name	Project	Degree By
Dr Amit SINGHAL Project Leader and Adj Ast/Prof LKC School of Medicine, NTU amit_singhal@immunol.a-star.edu.sg	1. Investigating crosstalk between immunity and metabolism during infection. 2. Identifying protective immune pathways that can be harnessed to control infection.	NTU

Functional Immune Imaging

Name	Project	Degree By
NG Lai Guan - Principal Investigator - Adj. A/Prof LKC School of Medicine, NTU Ng_Lai_Guan@immunol.a-star.edu.sg	1. Myeloid cell trafficking in health and disease. 2. Understanding inflammatory responses by intravital multiphoton microscopy	NUS/NTU

Pathogen Immunobiology

Name	Project	Degree By
RENIA Laurent - Executive Director, SIgN - Adj. Prof at YLLSOM, NUS and Adj Prof at SBS, NTU renia_laurent@immunol.a-star.edu.sg	1. Defining protective immune mechanisms and correlates of protection. 2. Deciphering the immune mechanisms involved in malaria-induced pathologies. 3. Immune responses and antimicrobial resistance	NUS/NTU
Dr Pablo Bifani Associate Prof. Microbiology & Immunology NUS pablo_bifani@immunol.a-star.edu.sg	Understanding immune response to Klebsiella pathogenicity and virulence factors	NUS

Innate immunity, Adaptive immunity, Dendritic cells, macrophages, monocytes

Name	Project	Degree By
GINHOUX Florent - Senior Principal Investigator - Adj. A/Prof at YLLSOM, NUS and LKCSOM, NTU florent_ginhoux@immunol.a-star.edu.sg	Ontogeny and Functions of Dendritic Cells	NUS/NTU

Allergy and Immune-regulation

Name	Project	Degree By
Dr Olaf Rotzschke - Principal Investigator - Adj. A/Prof at NUS, NTU olaf_rotzschke@immunol.a-star.edu.sg	Functional and genetic control of allergy-related pathways	NUS/NTU

Bacterial Pathogenesis

Name	Project	Degree By
Dr Amit SINGHAL Project Leader and Adj Ast/Prof LKC School of Medicine, NTU amit_singhal@immunol.a-star.edu.sg	1. Investigating crosstalk between immunity and metabolism during bacterial infection. 2. Identifying protective immune pathways that can be harnessed to control infection and drug resistance.	NTU