

Biotransformation Innovation Platform (BioTrans)

Multivariate (Chemometrics) Data Analyses

Name	Project	Degree By
Chew Wee Research Scientist (Joint appointment with ICES) Chew_Wee@biotrans.a-star.edu.sg	1) Inline monitoring for bioprocess development, e.g. fermentation 2) Multivariate statistical (chemometrics) analyses of bioprocess data 3) Analytical method development for biomolecule identification (using infrared, Raman, mass spectrometry, etc.)	Nil

Fermentation and Bioprocessing

Name	Project	Degree By
Chew Wee Research Scientist (Joint appointment with ICES) Chew_Wee@biotrans.a-star.edu.sg	1) Inline monitoring for bioprocess development, e.g. fermentation 2) Multivariate statistical (chemometrics) analyses of bioprocess data 3) Analytical method development for biomolecule identification (using infrared, Raman, mass spectrometry, etc.) 4) Multiphysics simulation of bioprocesses 5) Investigate fermentation viability using dielectric spectroscopy 6) Bioprocess development and process control	Nil

Computational Biology

Name	Project	Degree By
Kumar Selvarajoo Senior Research Scientist, Biotransformation Innovation Platform, & Affiliated Principal Investigator, SynCTI, NUS kumar.selvarajoo@biotrans.a-star.edu.sg	Computational Biology: 1. Computational Modeling of Biochemical Pathways, 2. Multidimensional Transcriptome-wide Analysis of Microorganisms to Diverse Perturbations	NUS

Bioinformatics

Name	Project	Degree By
Kumar Selvarajoo Senior Research Scientist, Biotransformation Innovation Platform, & Affiliated Principal Investigator, SynCTI, NUS kumar.selvarajoo@biotrans.a-star.edu.sg	Computational Biology: 1. Computational Modeling of Biochemical Pathways, 2. Multidimensional Transcriptome-wide Analysis of Microorganisms to Diverse Perturbations	NUS

Systems Biology

Name	Project	Degree By
Kumar Selvarajoo Senior Research Scientist, Biotransformation Innovation Platform, & Affiliated Principal Investigator, SynCTI, NUS kumar.selvarajoo@biotrans.a-star.edu.sg	Computational Biology: 1. Computational Modeling of Biochemical Pathways, 2. Multidimensional Transcriptome-wide Analysis of Microorganisms to Diverse Perturbations	NUS