

SUMMARY OF MASTERS IN SYSTEMS BIOLOGY PROGRAMMES

MSB COMPUTATIONAL BIOLOGY

Computational Biology focuses on the acquisition of theoretical knowledge and computational techniques for data analysis in system-level modern biology. During this course, you will develop essential skills for quantitative research and practical applications in computational biological research.

MSB (*IN SILICO*) BIOLOGY

In Silico Biology involves the modelling and simulation of complex biological systems using computational and mathematical approaches. This program provides you with the skills in computational modelling and network analysis using biological information.

MSB (BIOMOLECULAR SCIENCES)

Biomolecular Sciences is aimed at understanding biological mechanisms of molecule interactions in living biological systems. This Master course prepares you with the theoretical knowledge and practical applications in essential aspects of biomolecular research.

MSB (PROTEOME SCIENCES)

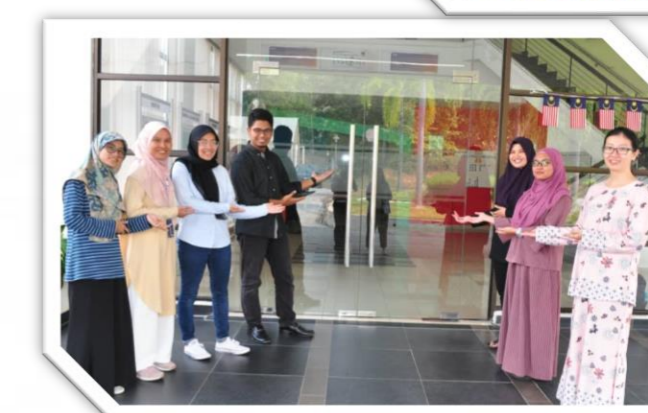
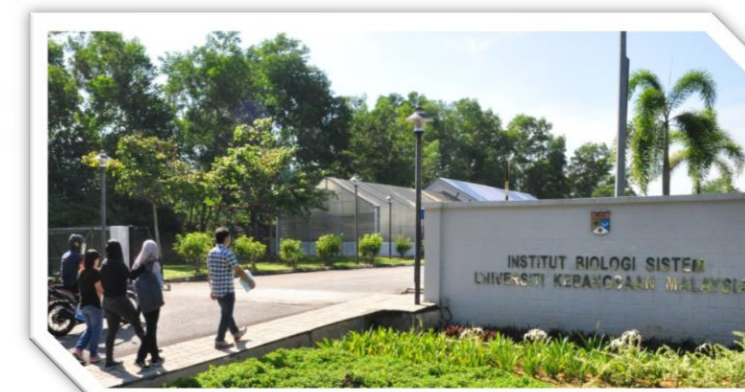
Proteome Science involves systematic and analytical studies of proteins in any level of biological systems. By enrolling in this course, you will be equipped with experimental and analytical skills in the field of system-level proteome research.

WHY CHOOSE OUR PROGRAMME ?

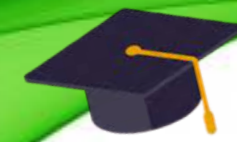
- The institute hosts state-of-the-art instruments for multidisciplinary research activities and provides comprehensive research services in; metabolite identification & profiling, single and complex protein analysis, omics data analysis, metabolite & protein extraction techniques and molecular biology works & access to Biosafety Level 1&2 cabinet.
- The research laboratories at the institute are operated by highly trained personnel hence providing easy to access point of contact for clients.
- One key advantage of using our services is that the services include end-to-end support sample preparation, data analysis and bioinformatics analysis.
- Our Chemical Analysis Laboratory is ISO-certified that further highlights our commitment in providing and ensuring R&D activities at the institute are of the highest quality and standard.



POSTGRADUATE PROGRAMMES



www.inbiosis.ukm.my



DETAILS OF MASTERS IN SYSTEMS BIOLOGY PROGRAMMES

WHAT YOU WILL LEARN

RBRB6012 - Concepts and Applications of Systems Biology

RBRB6014 - Research Methodology

PROGRAM REQUIREMENTS

a) Qualifications:
Bachelor degree in Biological Sciences, Physical Sciences, Chemical Sciences, Computational Sciences or Engineering OR other qualifications that are equivalent to the Bachelor degree or other qualifications or working experiences.

b) English proficiency (international candidate only) : 7.0 (IELTS) or 550 (TOEFL) or Band 4 (UKM English)

PROGRAM INFORMATION

Institute: Institute of Systems Biology
Campus: Bangi, Selangor
Degree: Masters in Systems Biology (Computational Biology/In Silico Biology/Biomolecular Sciences/Proteome Sciences)
Mode : Research only
Registration status : Masters in Systems Biology
Length of study: 2 years

HOW TO APPLY

Apply at : <http://guest.ukm.my>
Contact: ppinbio@ukm.edu.my / rajaaina@ukm.edu.my / norsuzana@ukm.edu.my
+603-8921 4548 / 4549



DETAILS OF DOCTOR OF PHILOSOPHY (SYSTEMS BIOLOGY)

PROGRAM SUMMARY

This doctorate programme is specially designed for theoretical and practical research approaches in System Biology research. This programme provides you with theoretical knowledge and practical research skills through cutting-edge techniques and methodologies.

WHAT YOU WILL LEARN

RBRB6012 - Concepts and Applications of Systems Biology

RBRB8014 - Research Methodology

RBRB8022 - Omics Big Data Analysis in Biology

PROGRAM REQUIREMENTS

a) Qualifications:
Masters degree in Biological Sciences, Physical Sciences, Chemical Sciences, Computational Sciences, Mathematical Sciences or Engineering. OR other qualifications that are equivalent to the Bachelors degree or other qualifications or working experience OR Bachelor degree with Honours in Biological Sciences, Physical Sciences, Chemical Sciences, Computational Sciences, Mathematical Sciences or Engineering with a Cumulative Grade Point of Average (CGPA) of at least 3.67.

b) English proficiency (International candidate only) : 7.0 (IELTS) or 550 (TOEFL) or Band 4 (UKM English)

PROGRAM INFORMATION

Institute: Institute of Systems Biology
Campus: Bangi, Selangor
Degree: Doctor of Philosophy (Systems Biology)
Mode : Research
Registration Status : Doctor of Philosophy
Length of study: 3 years

HOW TO APPLY

Apply at : <http://guest.ukm.my>
Contact: ppinbio@ukm.edu.my / rajaaina@ukm.edu.my / norsuzana@ukm.edu.my
+603-8921 4548 / 4549

JOIN OUR VIBRANT YOUNG SCIENTISTS AT UKM BANGI !

As a premier research institution, the institute is the home to bright and talented young scientist who pursuing the graduate studies and research attachments. Our young researchers are actively participating in various activities including national competitions, international conferences and research publication at established research institutions. Graduates from the institute are currently serving the nation by working in the industry and academics. The institute is proud to produce outstanding human capital that will continue to serve the nation with distinction.

