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CITATION INDICES



**TEACHING
EXPERIENCE**



RESEARCH & PUBLICATIONS

COMPLETED GRANTS	14	JOURNALS (ISI/SCOPUS)	49
ONGOING GRANTS	3	MONOGRAPH	-
BOOKS	-	PATENT	2
CHAPTER IN BOOKS	1	COPYRIGHT	4

TEACHING & SUPERVISION

TEACHING:

- ❖ 1) Enzyme Technology; 2) Bioprocess optimization and simulation; 3) Advanced practical in Bioreactors systems

RESEARCH:

- ❖ 1) Solid state fermentation; 2) Microbial enzyme production; 3) Thermoplastic starch; 4) Biomass treatment; 5) Enzymatic deinking; 6) Oligosaccharide Production

RECOGNITION & AWARDS

- 1) **USM Sanggar Sanjung**, 2011. Journal Publication Category, Universiti Sains Malaysia,
- 2) **Special Award**: The best ECO invention of the IENA 2009, The International Federation of Inventors Associations, 61st IENA Nuremberg International Exhibition "Ideas, Inventions and Innovations, 2009 (International)
- 3) **Gold Medal**: Malaysia Invention and Design Society, 19th Invention, innovation, industrial design and technology exhibition, 2008 (National)
- 4) **Gold Medal**: Malaysian Association of Research Scientists, Biolnno Awards, 2008 (National)
- 5) **Silver Medal**: Malaysian Association of Research Scientists, 6th Malaysia Technology Expo (MTE), 2007 (National)
- 6) **Hadih Sanjungan**, 2007 (University): Research Products Category, Universiti Sains Malaysia,
- 7) **Gold Medal & Special Award (Best Jury)**: Brussels Eureka, 55th World Exhibition of Innovation, Research and New Technology, 2006 (International)
- 8) **Gold Medal**: Malaysia Invention and Design Society, 17th Invention, innovation, industrial design and technology exhibition, 2006 (National)
- 9) **Gold Medal**: The Salon Organization, 33rd International Exhibition of Inventions, Techniques and New Products, 2005 (International)
- 10) **Henry Goh Environmental Innovation Award**: Malaysia Invention and Design Society, 15th Invention, innovation, industrial design and technology exhibition (ITEX), 2004 (National)
- 11) **Gold Medal**: Malaysia Invention and Design Society, 15th Invention, innovation, industrial design and technology exhibition (ITEX), 2004 (National).

SERVICE TO UNIVERSIT

DEPUTY DEAN

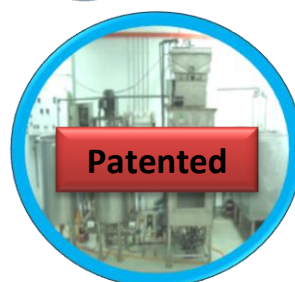
- ❖ Research, Innovation & Industrial-Community Engagement (2020-2021).

PROGRAM CHAIRPERSON

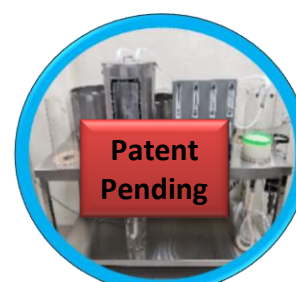
- ❖ Division of Bioprocess Technology (2019-2020)

School MyRA KPI Committee

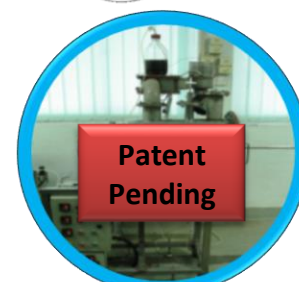
- ❖ Coordinator: 2015-2021



**Pilot Scale Enzymatic
Biodeinking system**



**Pilot scale Oligosaccharide
production system**



**Solid State
Fermentation System**



ACADEMIC PROFESSIONAL SERVICE

VISITING PROFESSOR	-
EDITORIAL BOARD	7
JOURNAL REVIEWER	>100
TECHNICAL ASSESSOR	1
PROFESSIONAL EXAMINER	15
KEYNOTE SPEAKER	-
PROFESSIONAL MEMBERSHIP	2