

MUHAMMAD NAZIZ BIN SAAT

No.12, Jalan Intan 2/6, Taman Intan,
86000 Kluang, Johor.

Mobile Number: 012-7005127

Email Address: naziz@uitm.edu.my



RESEARCH INTEREST

Enzymatic reactions, Functionalisation, Fungal Fermentation, Experimental Design, Response Surface Optimization, Factorial Design, Kinetic Modelling.

ACADEMIC QUALIFICATIONS

PhD. (Biotechnology) **2019**
UNIVERSITI MALAYA
Thesis title, "Kinetics of lipase-catalysed functionalization of epsilon-caprolactone monomer and oligomer with methyl-D-glucopyranoside".

MSc. (Industrial Biotechnology) **2013**
UNIVERSITI MALAYA
Thesis title, "Fermentation and kinetic studies on laccase production by *Pycnoporus sanguineus*".

BSc. (Biotechnology) **2006**
UNIVERSITI MALAYA
CGPA 3.46

TEACHING EXPERIENCE

Universiti Malaya
SHET3101/SIO3001 Bioprocess Technology,
BSc (Biotechnology), Tutor/Lab demonstrator, (2010 - 2019).

Universiti Malaya
SIO3102 Enzyme Technology,
BSc (Biotechnology), Lab demonstrator, (2019).

Universiti Malaya
SXEX1101 Biostatistics,
BSc (Biotechnology), Tutor, (2013 – 2014).

International Universiti Malaya Wales

BTC634 Enzyme Technology,
BSc (Biotechnology), Lab Demonstrator, (2018 - 2019).

International Universiti Malaya Wales

BTC663 Bioreactor Design,
BSc (Biotechnology), Lecturer, (Feb-Jun 2018).

RESEARCH EXPERIENCE

September 2019	Research assistant in microbial farming for polyhydroxyalkanoates (PHA) production (Professor Dr M. Suffian M. Annuar)
December 2014 – November 2017	PhD research on “Integrated enzymatic reactor for high throughput functionalized polymer production (Professor Dr. M. Suffian M. Annuar)
January 2013 – July 2013	Research assistant in production and Recovery of sugar esters (Professor Dr. M. Suffian M. Annuar)
April 2009 – January 2010	Research assistant in plant cell bioreactor (Professor Dr. M. Suffian M. Annuar)
August 2006 – February 2007	Research assistant in polyhydroxyalkanoates (PHA) production (Professor Dr. M. Suffian M. Annuar)

PUBLICATIONS

Journals

Saat, M. N., & Annuar, M. S. M. (2019). Statistical analysis of one-pot lipase-catalyzed esterification of ϵ -caprolactone with methyl-D-glucopyranoside and its extension. *Biocatalysis and Agricultural Biotechnology*, 101464.

Saat, M. N., & Annuar, M. S. M. (2019). One-pot lipase-catalyzed esterification of ϵ -caprolactone with methyl-D-glucopyranoside and its elongation with free 6-hydroxyhexanoate monomer units. *Biotechnology and Applied Biochemistry*, <https://doi.org/10.1002/bab.1859>

Simarani, K., Saat, M. N., & Mohamad Annuar, M. S. (2016). Efficient removal of azo dye by grated copra biomass. *Desalination and Water Treatment*, 57(1), 230-237.

Saat, M. N., Annuar, M. S. M., Alias, Z., Chuan, L. T., & Chisti, Y. (2014). Modeling of growth and laccase production by *Pycnoporus sanguineus*. *Bioprocess and Biosystems Engineering*, 37(5), 765-775.

Saat, M. N., Annuar, M. S. M., Alias, Z., & Bakar, B. (2012). Effects and optimization of selected operating variables on laccase production from *Pycnoporus sanguineus* in stirred tank reactor. *International Journal of Chemical Reactor Engineering*, 10(1).

SCHOLARSHIP AWARD

2014 – 2017, Awarded Skim Tenaga Pengajar Muda (TPM) from Universiti Teknologi Mara (UiTM).

2007 – 2009, Awarded National Science Fellowship (NSF) from Ministry of Science, Technology and Innovation (MOSTI).

FUNDED RESEARCH GRANTS

Enzymatic reactor studies for high throughput functionalized biopolymer production, Co-researcher, 2015 - 2018, Postgraduate Research Grant (PPP), (National).

Production, purification and characterization of laccase enzyme from white rot fungi for biotechnological applications, Co-researcher, 2007 - 2008, Postgraduate Research Grant (PPP), (National).

CONFERENCES

Oral

Saat, M. N., Annuar, M. S. M., & Alias, Z. (2010). Fungal laccase production in a stirred tank reactor. 15th Biological Sciences Graduate Congress (BSGC), Kuala Lumpur, 2010. (International).

Poster

Saat, M. N., Annuar, M. S. M., & Alias, Z. (2009). Laccase production by *Pycnoporus sanguineus* in shake-flasks: locating the optimization domain using statistical design. 2009 International Congress of Malaysian Society for Microbiology (ICMSM), Penang, 2009. (International).

REFERENCES

Professor Dr. Mohamad Suffian Mohamad Annuar
Institutes of Biological Sciences,
Faculty of Science,
50603 Kuala Lumpur
Email: suffian_annuar@um.edu.my
Tel: +603-7967 7182
