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MSc. Universiti Malaya, 2006

BSc. (Hons) (Applies Chemistry), 2002

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MAJOR RECOGNITION (IF ANY):

- International patent: Glycolipids of branched chain alkyl oligosaccharides for liquid crystal and related applications” R. Hashim, T. Hiedelberg, H. Hassan, N.Z.M. Rodzi, R.S.D. Hussen, S. Radiman, V. Vill, M. Wulf, S. Ujiie, International Patent Publication Number: WO2006/098699 A1.
- GOLD MEDAL EXPO R&D GENEVA, SWITZERLAND (2005)

RESEARCH INTEREST

Liquid crystals, Carbohydrate liquid crystals, Surfactants

RESEARCH HIGHLIGHT

Current research focuses on the synthesis and investigations of branched chain glycolipids as surfactants.

REPRESENTATIVE (FEATURED) PUBLICATIONS:

- Wei, Mak Oi; Seman, Nursyafikah; Harun, Nor Hamizah; Duali Hussen, Rusnah Syahila; Mohd Rodzi, Nasrulzamani; Heidelberg, Thorsten (2015) **Nanovesicles based on mixtures of a biantennary glycolipid with ionic co-surfactants**, Journal of Surfactants and Detergents (ISI/SCOPUS-Cited Publication)
- R. S. D. Hussen, T. Heidelberg, N. Z. M. Rodzi, S. W. Ng and E. R. T. Tiekink, (2011). **4-Formylphenyl 2,3,4,6-tetra-O-acetyl- β -D-galactopyranoside**, *Acta Cryst.* E67, o826 (ISI/SCOPUS-Cited Publication)
- T. Heidelberg, R. S. D. Hussen, N. Z. M. Rodzi, S. W. Ng and E. R. T. Tiekink, (2011). **4-Formylphenyl 2,3,4,6-tetra-O-acetyl- β -D-glucopyranoside**, *Acta Cryst.* E67, o825 (ISI/SCOPUS-Cited Publication)
- N. Z. B. M. Rodzi, T. Heidelberg, R. Hashim,* A. Sugimura and H. Minamikawa, (2011), **Synthesis and Liquid Crystals Properties of α -Methylated Galactosides**, Physics Procedia, 14 (2011) pg. 91-95 (ISI/SCOPUS-Cited Publication)
- Rauzah Hashim, Hind Hassan Abdalla Hashim, Nasrul Zamani Mohd. Rodzi, Rusnah Syahila Duali Hussen and Thorsten Heidelberg, **Branched chain glycosides: Enhanced diversity for phase behavior of easily accessible synthetic glycolipids**, *Thin Solid Films*, **509(2006)** pg. 27-35 (ISI/SCOPUS-Cited Publication)

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