



VIJITRA LUANG-IN

LECTURER AND RESEARCHER

ABOUT ME

I am a Thai lecturer & researcher with a PhD in Microbiology & Biochemistry whose passion is on bacterial glucosinolate metabolism, bioactivity of Thai fermented foods and drinks and biotechnology.

CONTACT

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EDUCATION

PhD Microbiology & Biochemistry
Imperial College London, UK

MRes (Distinction) Biochemical Research
Imperial College London, UK

BSc (2nd class Hons) Biotechnology
Imperial College London, UK

AS & A level
D'overbroeck's College, Oxford, UK

WORK EXPERIENCE

LECTURER & RESEARCHER

2013-Present

At Natural Antioxidant Research Unit, Department of Biotechnology, Faculty of Technology, Mahasarakham University, Thailand

RESEARCH EXPERTISE

Human gut microbiota

Metabolism of glucosinolates

Gene cloning

Enzyme characterization

AWARDED RESEARCH GRANTS

- 2013-2014 Lead of project entitled 'Reduction of glucoraphanin and sulforaphane by E. coli strains'. Awarded 52,000 THB grant by Faculty of Technology.
- 2014-2015 Lead of project entitled 'Identification of the microflora and exopolysaccharide-producing bacteria from Thai indigenous kefir'. Awarded 100,000 THB grant by Mahasarakham University Fund 2015.
- 2015-2016 Lead of project entitled 'Characterization and bioactivities of exopolysaccharides from microbes isolated from Thai indigenous kefir'. Awarded 100,000 THB grant by Mahasarakham University Fund 2016.

PUBLICATIONS

1. Westwood, J.H., Groen, S.C., Du, Z., Murphy, A.M., Anggoro, D.T., Tungadi, .T, Luang-In, V., Lewsey, M.G., Rossiter, J.T., Powell, G., Smith, A.G. & Carr J.P. (2013) A trio of viral proteins tune aphid-plant interactions in *Arabidopsis*. PLoS ONE. DOI: 10.1371/journal.pone.0083066. Impact Factor = 3.4(ISI)
2. Luang-In, V., Narbad, A., Nueno-Palop, C., Mithen, R., Bennett, M. & Rossiter, J. T. (2014) The metabolism of methylsulfanylalkyl- and methylthioalkyl-glucosinolates by a selection of human gut bacteria. *Molecular Nutrition & Food Research*, 58, 875–883. Impact Factor = 4.6(ISI)
3. Luang-In, V., Narbad, A., Cebeci, F., Bennett, M. & Rossiter, J.R. (2015) Identification of proteins possibly involved in glucosinolate metabolism in *L. agilis* R16 and *E. coli* VL8. *Protein Journal*. 34(2), 135-46. Impact Factor = 0.98(ISI)
4. Luang-In, V. & Rossiter, J.T. (2015) Stability studies of isothiocyanates and nitriles in aqueous media. *Songklanakarin Journal of Science and Technology*. 37(6), 625-630. SCOPUS Q2
5. Albaser, A., Kazana, E., Bennett, M., Cebeci, F., Luang-In, V., Spanu, P.D. & Rossiter, J.T. (2016) Discovery of a bacterial glycoside hydrolase family 3 (GH3) β -glucosidase with myrosinase activity from a *Citrobacter* strain isolated from soil. *Journal of Agricultural and Food Chemistry*. 64 (7), 1520–1527. DOI: 10.1021/acs.jafc.5b05381. Impact Factor = 2.9(ISI)
6. Luang-In, V., Albaser, A.A., Nueno-Palop, C., Narbad, A., Bennett, M. & Rossiter, J.R. (2016) Metabolism of glucosinolates and desulfo-glucosinolates by selected human gut bacteria. *Current Microbiology*. 73(3), 442-451. Impact Factor = 1.4(ISI)
7. Abdulhadi, A.A., Numrah, N. & . Luang-In, V. (2016) Polytetrafluoroethylene as a proton exchange membrane in an algae fuel cell. *I-manager's Journal on Material Science*. 4(1), 21-26.
8. Luang-In, V. & Bobál'ová J. (2016) Reduction of the Sulfoxide in Glucoraphanin and Sulforaphane by *E. coli* VL11 and BL21(DE3). *Songklanakarin Journal of Science and Technology*. In Press. SCOPUS Q3
9. Luang-In, V. & Deeseenthum, S. (2016) Exopolysaccharide-producing isolates from Thai milk kefir and their antioxidant activities. *LWT-Food Science and Technology*, 73, 592-601. Impact Factor = 2.7(ISI)

AWARDED RESEARCH GRANTS

- 2015-2017 Lead of project entitled 'Influence of microbes isolated from Thai local fermented foods and beverages on the metabolic fate of glucosinolates'. Awarded 600,000 THB grant by Thailand Research Fund.
- 2015-2016 Co-lead of project entitled 'Plant stem cell and secondary metabolite production in tissue culture'. Awarded 70,000 THB grant by Faculty of Technology Fund 2016.
- 2016-2017 Lead of project entitled 'Value addition to Thai broken rice used to develop herbal hair tonic with anti-hair loss and anti-grey hair properties'. Awarded 122,000 THB grant by National Research Council 2016.

REFEREES

Dr. John Rossiter, Imperial College London, UK,

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Prof. Arjan Narbad, Institute of Food Research, Norwich,

UK, E-mail: arjan.narbad@ifr.ac.uk

Assoc.Prof.Dr. Anuchita Moongngarm, Faculty of

Technology, Mahasarakham University,

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