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## Research interests:

Cyanobacterial Biotechnology and Proteomics analysis  
Metabolic engineering of cyanobacteria to produce commodity and fine chemicals

## Education:

2016 Ph.D. in Life Science, University of Amsterdam, Amsterdam, The Netherlands  
2009 M.Sc. in Biochemistry, Mahidol University, Bangkok, Thailand  
2006 B.Sc. (Honors) in Biology, Silpakorn University, Nakhon-Pathom, Thailand

## Publications:

- Borirak O, de Koning LJ, van der Woude AD, Hoefsloot HCJ, Dekker HL, Roseboom W, de Koster CG, Hellingwerf KJ. Quantitative proteomics analysis of an ethanol- and a lactate producing mutant strain of *Synechocystis* sp. PCC6803. *Biotechnol Biofuels*. 2015;8:111.
- Borirak O, Rolfe MD, de Koning LJ, Hoefsloot HCJ, Bekker M, Dekker HL, Roseboom W, Green J, de Koster CG, Hellingwerf KJ. Time-series analysis of the transcriptome and proteome of *Escherichia coli* upon glucose repression. *Biochim Biophys Acta*. 2015 Oct;1854(10 Pt A):1269–79.
- Borirak O, Bekker M, Hellingwerf KJ. Molecular physiology of the dynamic regulation of carbon catabolite repression in *Escherichia coli*. *Microbiology*. 2014 Jun 1;160(Pt\_6):1214–23.
- Borirak O<sup>‡</sup>, Samanphan P<sup>‡</sup>, Dangtip S, Kiatpathomchai W, Jitrapakdee S. Promoter motifs essential to the differential transcription of structural and non-structural genes of the white spot syndrome virus. *Virus Genes*. 2009 Oct;39(2):223–33.

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