

CURRICULUM VITAE

PERSONAL INFORMATION:

Mr. Supachai Reakasame

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Date of birth: 21/04/1984

Nationality: Thai

WORK EXPERIENCES:

02 Aug. 2010 - 28 Feb. 2015

Researcher

Petroleum Products and Alternative Fuels Research
Department, PTT Research and Technology Institute,
PTT Public Company Limited, Thailand
555 Vibhavadi Rangsit Rd., Chatuchak, Bangkok, 10900,
Thailand; www.pttplc.com

- *Served as a project principal investigator for 4 projects related to algal biotechnology for biofuels production*
- *Was a key member in the project of the screening of cellulose -producing bacteria for medical applications*
- *Was a team member in the project of the feasibility study on the Euglena sp. Cultivation for biomass, high value chemicals, and biofuels*

Business or Sector: Oil and Gas Company

02 Jun. 2008 - 19 Apr. 2010

Research Assistant

Department of Chemical Engineering,
Faculty of Engineering, Kasetsart University
50 Ngamwongwan Rd., Ladyao, Jatujak, Bangkok, 10900,
Thailand; www.che.eng.ku.ac.th

- *Carried out the research project in the topic of Potential of L-phenylalanine production from raw glycerol of biodiesel process*

Business or Sector: Academic Sector

01 Nov. 2007- 31 Mar. 2009

Teaching Assistant

Department of Chemical Engineering,
Faculty of Engineering, Kasetsart University
50 Ngamwongwan Rd., Ladyao, Jatujak, Bangkok, 10900,
Thailand; www.che.eng.ku.ac.th

- *Served as a teaching assistance to support and to assist the learning of the undergraduate students in several classes at the Department of Chemical Engineering, Kasetsart University; such as, Chemical Engineering Laboratory I, Unit Operation Laboratory I, and Physicochemical Laboratory in Chemical Engineering*

Business or Sector: Academic Sector

03 Apr. 2005-31 May 2005

Summer Internship Student

Research and Development Department, Greenville
Company Limited

31 Ladkrabang Industrial Estate, Chalongkrung 31,
Chalongkrung Rd., Lumplatiew, Ladkrabang, Bangkok,
10520, Thailand; www.greenville.co.th

- *Carried out the research to develop the company products' quality; such as liquid soap, cosmetic products, and body lotion.*

Business or Sector: Consumer Product Manufacturer

EDUCATION AND TRAINING:

1 Aug. 2016-30 Sep. 2016

Training Certificate

Intensivkurs Deutsch als Fremdsprache(Kompetenzstufe A1)
Carl Duisberg Centrum, Berlin, Germany

17 Jun. 2013-20 Jun. 2013

Training Certificate

Scottish Association for Marine Science (SAMS), Oban,
Argyll, Scotland

- *Alga culture for Biotechnology Course*
- *Introduction to Molecular Methods for Algae Research Course*

04 Jun. 2007-19 Apr. 2010

Master Degree of Engineering

(Chemical Engineering)

Department of Chemical Engineering, Faculty of
Engineering, Kasetsart University, Bangkok, Thailand

03 Jun. 2002-23 Mar. 2006

Bachelor Degree of Science (1st Class Honour)

(Biotechnology)

Department of Biotechnology, Faculty of Science, Mahidol University, Bangkok, Thailand

16 May 1999-29 Mar. 2002

Secondary School Diploma

(Math and Science)

Debsirinromklao School, Bangkok, Thailand

PERSONAL SKILLS:

MOTHER TONGUE(S):

Thai

OTHER LANGUAGE(S):

English: Listening Skill = Independent User

Reading Skill = Proficient User

Speaking Skill = Independent User

Writing Skill = Independent User

COMMUNICATION SKILLS:

- Very good communication skills gained through my experience as a science ambassador for PTT's Science Challenge, a national science competition hosted by PTT Public Company Limited

ORGANISATIONAL / MANAGERIAL SKILLS:

- Good organizational skills gained through my experience as an organizing committee for Science Camp and Science Project Exhibition organized at Mahidol University
- Very good team-leading skill gained through my current responsibility as a principle investigator of 4 projects and supervises 5 members in our team

JOB-RELATED SKILLS:

- Excellent command of analytical techniques; for example, HPLC, GC/MS, Analysis of fatty acids, amino acids, and enzyme activity
- Excellent command of microbiological techniques; for example, isolation and optimization of cellulose –producing bacteria
- Excellent command of quality management system ; QMS (Acted as a project coordinator for PTT's quality management program namely One Department One Product; ODOP)
- Very good command of QSHE (Quality, Safety, Health and Environment) policy (Acted a QSHE coordinator)
- Very good command of total productive maintenance; TPM (Acted as a TPM coordinator for TPM system of laboratory equipment.
- Hydrogel synthesis; Oxidized alginate synthesis
- Biofabrication technique; 3D Printing, fabrication of hydrogel microsphere

COMPUTER SKILLS:

- Very good command of Microsoft Office™ tools (e.g. Word Processing, Excel Spreadsheet, Powerpoint Presentation)
- Very good command of Patent/Publication Search Engine (e.g. NexisLexis and Thomson Reuter)

OTHER SKILLS:

- Fluent in master of ceremony

DRIVING LICENCE:

- Thai's Driver License Type II (Private car)

ADDITIONAL INFORMATION:**PATENT:**

▪ Inventors: Ratana Rujiravanit, Mongkol Tipplook, Narin Kaabbuathong, Tuspon Thanpitcha, Supachai Reakasame and Yuenyong Polsamrit; Title: Method for Producing a Composite Material of Bacterial Cellulose and Textile; Application date: March 25, 2016; Application number: 1601001745; Country: Thailand; Applicant: PTT Public Company Limited.

PUBLICATIONS:

- Supachai Reakasame and Aldo R. Boccaccini, *Oxidized Alginate-Based Hydrogels for Tissue Engineering Applications: A Review*, *Biomacromolecules*, 2018, 19 (1): 3–21.
- Raminder Singh, Anna Wieser, Supachai Reakasame, Rainer Detsch Barbara Dietel Christoph Alexiou Aldo R. Boccaccini Iwona Cicha, *Cell specificity of magnetic cell seeding approach to hydrogel colonization*, *Journal of Biomedical Materials Research Part A*, 2017, 105(11): 2948-2957.
- Iwona Cicha, RainerDetsch, RaminderSingh, SupachaiReakasame, ChristophAlexiou, Aldo R.Boccaccini, *Biofabrication of vessel grafts based on natural hydrogels*, *Current Opinion in Biomedical Engineering*, 2017, 2: 83-89
- Potential of L-phenylalanine Production from Raw Glycerol of Palm Biodiesel Process by a Recombinant Escherichia coli, *Chiang Mai Journal of Science*, Thailand, 2012, 39 (1), 59-68

PRESENTATIONS:

- 7th KMM-VIN Industrial Workshop (IW7) "Biomaterials: Key Technologies for Better Healthcare" 27th-28th September 2017, Erlangen, Germany Development and characterization of hybrid hydrogel based on alginate di-aldehyde, gelatin and silk fibroin for tissue engineering applications. Short oral presentations
- Fabrication and Characterization of Alginate-Keratin Based Composite Microspheres Containing Bioactive Glass for Tissue Engineering Applications, *Biofabrication for Hierarchical in Vitro Tissue Models*, Hernstein, Austria 5 - 9 June 2017 Poster
- Development and Characterization of Hybrid Hydrogel Based on Oxidized Alginate and Keratin for Tissue Engineering Applications, 4th Euro BioMAT - European Symposium and Exhibition on Biomaterials and Related, Weimar-Legefelfd, Germany, 9-10 May 2017 Poster
- A study on growth and lipid productivity of *Coelastrum* sp. (PTT-TISTR-2101) in outdoor cultivations systems, *Proceeding of 24th Annual Meeting of the Thai Society for Biotechnology*, International Conference on Green Biotechnology: Renewable Energy and Global Care, Ubon Ratchatani, Thailand, 2012

- Escherichia coli BL 21 (DE3) Cultivation Using Raw Glycerol from Biodiesel Production Process, Presentation of 6th KU-KPS Conference, Kasetsart University Kamphaeng Sean Campus, Nakhon Pathom, Thailand, 2009
- Study of Thermo-stable Fungal Phytase, Proceeding of 1st Conference on Science and Technology for Youth, Bangkok, Thailand, 2006

PROJECTS:

- Oxidized alginate based hydrogel for tissue engineering applications (2015-current)
- Physiological study on microalgae cultivation (2013-2015)
- Isolation and optimization of cellulose-producing bacteria (2013-2014)
- Algae to Biofuels from Carbon dioxide Pilot Plant Project at Gas Separation Plant (2012-2015)
- Development of low-cost culture medium for microalgae production (2012-2013)
- Feasibility Study of the Euglena sp. Cultivation for Biomass, High Value Chemicals and Biofuels (2012-2013)
- Screening of microalgae strains for biofuel production (2010-2012)

HONOURS AND AWARDS:

- Best poster presentation, Biofabrication for Hierarchical in Vitro Tissue Models, Hernstein, Austria 5 - 9 June 2017
- DAAD scholarship, Department of Material Sciences and Engineering, Universität Erlangen-Nürnberg (2016-2018)
- Asian Development Bank (ADB) Scholarship for graduate education, Department of Chemical Engineering, Faculty of Engineering, Kasetsart University (2007-2009)
- First Class Honour Degree, Faculty of Science, Mahidol University (2006)
- Sritrangthong Scholarship, Faculty of Science, Mahidol University (2002-2006)

CONFERENCES/SEMINARS:

- 7th KMM-VIN Industrial Workshop (IW7) "Biomaterials: Key Technologies for Better Healthcare" 27-28 September 2017, Erlangen, Germany
- International Workshop "Drug-Free Antibacterial Hybrid Biopolymers for Medical Applications: Developing new anti-bacterial therapies based on biomedical polymers and inorganic materials" at the Institute of Biomaterials, University of Erlangen-Nuremberg, on 5 December 2017
- Biofabrication for Hierarchical in Vitro Tissue Models, Hernstein, Austria 5 - 9 June 2017
- 4th Euro BioMAT - European Symposium and Exhibition on Biomaterials and Related in Weimar-Legefeld, Germany, 9-10 May 2017
- 2nd International Conference on Algal Biorefinery: A potential source of food, feed, biochemicals, biofuels and biofertilizers, Technical University of Denmark, Lyngby, Denmark, 27-29 August 2014
- Algae Technology Platform Europe: Algae Harvesting and Downstream Processing for Value Added Applications, Ghent, Belgium, 5-7 December 2012
- Algae Biomass Summit 2011, Minnesota, USA, 25-27 October 2011

REFERENCES:

- Prof. Dr.-Ing. habil. Aldo R. Boccaccini
Head, Institute of Biomaterials
Department of Materials Science and Engineering, University of Erlangen-Nuremberg
Cauerstr. 6, 91058 Erlangen, Germany
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Email: aldo.boccaccini@ww.uni-erlangen.de
Website: www.biomat.techfak.uni-erlangen.org
- Assoc. Prof. Penjit Srinophakun, Ph.D.
President of Thai Society for Biotechnology (TSB).
Department of Chemical Engineering, Faculty of Engineering, Kasetsart University
50 Ngamwongwan Rd., Ladyao, Jatujak, Bangkok, 10900, Thailand
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Website: <http://bel.kasetsart.org>, www.biodiesel.rdi.ku.ac.th
- Asst. Prof. Suthep Wiyakrutta, Ph.D.
Department Chairperson
Department of Microbiology, Faculty of Science, Mahidol University
272 Rama VI Rd., Ratchathewi, Bangkok, 10400, Thailand
Tel. (662) 0-2201-5671, Fax. (662) 0-2644-5411, Email: suthep.wiy@mahidol.ac.th
Website: <http://www.sc.mahidol.ac.th>
- Narin Kaabbuathong, Ph.D.
Head of Polymer and Advanced Materials Research Group
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