

Jeerapond Leelawattanachai

1. GENERAL INFORMATION

Department: Biomedical Engineering, Cornell University
Address: Room 155, Weill Hall, Cornell University
526 Campus Road, Ithaca, NY 14853
Phone: 1-607-379-1615
Email: jl2435@cornell.edu
Lab website: www.jin-lab.org

2. EDUCATION

2008-present Doctor of Philosophy in Biomedical Engineering,
Cornell University, Ithaca, NY
Advisor: Asst. Prof. Moonsoo Jin

2003-2006 Bachelor of Science in Physics, First Class Honors,
Mahidol University, Bangkok, Thailand
Receiving full scholarship covering tuition fees, living expenses and books
Senior project: Modeling of Signal Transduction via Dynamics of G-Protein-Coupled Receptors:
Internalization Consideration.
Advisor: Assoc. Prof. Wannapong Triampo

2001-2003 12th Grade Graduate, Science and Mathematics,
Mahidol Wittayanusorn School, Nakhonpathom, Thailand

3. DISTINCTIONS

2007-2012 Royal Thai Government Scholarship for graduate study in biomedical engineering
2007 First Class Honors in Physics, Mahidol University
2003-2006 Rian Di Wittayasat Scholarship, by Thai Government, for undergraduate study at Mahidol
University
2000 Selected to participate in POSN-1st Biology Camp from the results of competitive examination
(The Promotion of Academic Olympiad and Development of Science Education Foundation)

4. PUBLICATION

1. **Leelawattanachai J**, Modchang C, Triampo W, Triampo D, and Lenbury Y.
Modeling and genetic algorithm optimization of early events in signal transduction via dynamics of G-protein-coupled receptors: Internalization consideration. Applied Mathematics and Computation 207 (2009) 528-544.
2. **Leelawattanachai J**, Chen X, and Moonsoo J.
Thyroid stimulating hormone receptor superagonist bound liposomes for targeted thyroid cancer therapy.
BMES 2009 Annual Fall Scientific Meeting, Pittsburgh, PA, 7-10 Oct 2009
3. **Leelawattanachai J**, Triampo W, Modchang C, and Lenbury Y.
Modeling of Signal Transduction via Dynamics of G-Protein-Coupled Receptors: Internalization Consideration.
International Conference in Mathematics and Applications 2007, Bangkok, Thailand, 15-17 Aug 2007

5. ORAL PRESENTATION

1. **Leelawattanachai J**, Triampo W, Modchang C, and Lenbury Y.
Modeling of Signal Transduction via Dynamics of G-Protein-Coupled Receptors: Internalization Consideration. International Conference in Mathematics and Applications 2007, Bangkok, Thailand, 15-17 Aug 2007
2. **Leelawattanachai J**, Triampo W, and Modchang C.
Research in Signal Transduction Process: Dynamics of G-proteins and receptors. The 8th Science Project Exhibition, Mahidol University, Bangkok, Thailand, 12 Mar 2007

6. POSTER PRESENTATION

1. **Leelawattanachai J**, Chen X, and Moonsoo J.
Thyroid stimulating hormone receptor superagonist bound liposomes for targeted thyroid cancer therapy. BMES 2009 Annual Fall Scientific Meeting, Pittsburgh, PA, 7-10 Oct 2009
2. **Leelawattanachai J**, Chen X, and Moonsoo J.
Thyroid stimulating hormone receptor superagonist bound liposomes for targeted thyroid cancer therapy. 2009 BMES Summer Retreat, Cornell University, Ithaca, NY, 29 Aug 2009
3. **Leelawattanachai J**, Triampo W, and Modchang C.
Research in Signal Transduction Process: Dynamics of G-proteins and receptors. 2nd Congress on Sciences and Technology for Youths, Kasetsart University, Bangkok, Thailand, 21-22 Mar 2007

7. TECHNICAL SKILLS

- Technical instruments: fast protein liquid chromatography, flow cytometer, ultracentrifuge, neutron scattering machine, x-ray diffractometer, Michelson Interferometer, Fabry-Perot Interferometer, DC sputtering machine.
- Laboratory skills: film thickness and contact angle measurement, fluorescence and absorption in molecules, Fourier optics, superconductivity, electron spin resonance, hysteresis, etc.
- Numerical solution techniques and Computational simulation
- Tissue Culture

8. TECHNICAL EXPERIENCE

- Summer Immersion at Weill Medical College of Cornell University, NY, June – July 2009
- Intern at The Office of Atoms for Peace, Thailand, March – April 2006
Using neutron scattering machine
- Visiting to Thailand Science Park (BIOTEC and MTEC), National Institute of Metrology (Thailand), The Office of Atoms for Peace, Isotron (Thailand) Ltd. and National Synchrotron Research Center

9. POSITIONS OF RESPONSIBILITY

- Trainer MATLAB, Numerical solution techniques to new members of BIOPHYSICS research group, Mahidol University, 2007
- Head organizer of a charity camp in Chonnabod Club (a university charity club), Mahidol University, 2004
- Secretary and treasurer for physics students, Mahidol University, 2004-2006

10. ACADEMIC REFERENCES

- Asst Prof. Moonsoo Jin, Department of Biomedical Engineering, Cornell University, Room 161, Weill Hall, 526 Campus Road, Ithaca, NY 14850, Phone: 1-607-255-4480
Email: mj227@cornell.edu
- Assoc. Prof. Wannapong Triampo, Department of Physics, Faculty of science, Mahidol University, Rama 6 Rd., Bangkok, 10400, THAILAND, Phone: 662-441-9816 ext 1131. Fax +662- 354-7159
Email: wtriampo@gmail.com and scwtr@mahidol.ac.th
- Asst. Prof. Piyapong Sithikong, Department of Physics, Faculty of science, Mahidol University, Rama 6 Rd., Bangkok, 10400, THAILAND, Phone: 662-354-7159
Email: scpst@mahidol.ac.th