

ผลงานวิจัย

1. บทความตีพิมพ์ในวารสารวิชาการนานาชาติ

1. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua, Peter Wolschann, Heinz Berner and Pornpan Pungpo. Insight into crucial inhibitor-enzyme interaction of arylamides as novel direct inhibitors of the enoyl ACP reductase (InhA) from *Mycobacterium tuberculosis*: computer-aided molecular design. *Monatshefte for Chemie*, 2010, 141, 1029-1041
2. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua, Peter Wolschann and Pornpan Pungpo. Elucidating Drug-Enzyme Interactions and Their Structural Basis for Improving the Affinity and Potency of Isoniazid and Its Derivatives Based on Computer Modeling Approaches. *Molecules*, 2010, 15, 2791-2813

2. บทความตีพิมพ์ในวารสารวิชาการสืบเนื่องจากงานประชุมวิชาการระดับชาติ/นานาชาติ

1. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua, Peter Wolschann, Heinz Berner and Pornpan Pungpo. Computer-aided molecular design of arylamide as the novel direct inhibitors of the enoyl acp reductase (InhA) from *M. tuberculosis* based on molecular docking calculations and QSAR studies. *The Pure and Applied Chemistry International Conference (PACCON 2010)*, January 21 - 23, 2010, Ubonratchathani, Thailand.
2. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua and Pornpan Pungpo. Investigation of the Important Interactions of Direct InhA Inhibitors in the Class of Arylamide in InhA Binding Pocket Based on Quantum Chemical Calculations. *The Pure and Applied Chemistry International Conference (PACCON 2009)*, January 14 - 16, 2009, Phitsanulok, Thailand.
3. Auradee Punkvang, Patchreenart Saparpakorn, Songwut Suramitr, Supa Hannongbua and Pornpan Pungpo. Molecular Modeling and Quantum Chemical Calculations of Antituberculosis Agents in a Series of Isoniazid Derivatives. *The 12th*

Annual Symposium on Computational Science and Engineering. March 27-29, 2008, Ubonratchathani, Thailand.

4. Auradee Punkvang, Patchreenart Saparpakorn, Songwut Suramitr, Supa Hannongbua and Pornpan Pungpo. Understanding in the Binding of Isonicotinyl-NAD Adduct to Wild-Type and Isoniazid Resistant Enoyl-ACP Reductase from Mycobacterium Tuberculosis Using Molecular Docking and Quantum Chemical Calculations. *Pure and Applied Chemistry International Conference, January 30-February 1, 2008, Bangkok, Thailand.*
5. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua and Pornpan Pungpo. Three-Dimensional Quantitative Structure-Activity Relationship (3D-QSAR) Study of Antituberculosis Agents in a Series of Isoniazid Derivatives. *The 2nd UBU Research Conference. (UBRC II), July 28-29, 2008, Ubonratchathani, Thailand.*

3. เสนอผลงานในงานประชุมวิชาการระดับนานาชาติ

1. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua and Pornpan Pungpo. Insight into the Binding Interactions Based on Molecular Docking and Quantum Chemical Calculations and 3D-QSAR of Arylamides as the Direct Inhibitors of Enoyl ACP Reductase from Mycobacterium Tuberculosis. *The 13th Annual Symposium on Computational Science and Engineering (13th ANSCSE), March 25-27, 2009, Bangkok, Thailand.*
2. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua and Pornpan Pungpo. Investigation of the Important Interactions of Direct InhA Inhibitors in the Class of Arylamide in InhA Binding Pocket Based on Quantum Chemical Calculations. *The Pure and Applied Chemistry International Conference (PACCON 2009), January 14 - 16, 2009, Phitsanulok, Thailand.*
3. Auradee Punkvang, Patchreenart Saparpakorn, Songwut Suramitr, Supa Hannongbua and Pornpan Pungpo. Molecular Modeling and Quantum Chemical Calculations of Antituberculosis Agents in a Series of Isoniazid Derivatives. *The 12th Annual Symposium on Computational Science and Engineering. March 27-29, 2008, Ubonratchathani, Thailand.*
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5. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua and Pornpan Pungpo. Investigation of the I21V and S94A Mutation Influence on INH–NAD and NADH Binding to InhA Enzyme Based on Quantum Chemical Calculations. *World Association of Theoretical and Computational Chemists (WATOC 2008)*. September 14-19, 2008, Sydney, Australia.
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4. เสนอผลงานในงานประชุมวิชาการระดับชาติ

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2. Auradee Punkvang, Patchreenart Saparpakorn, Supa Hannongbua and Pornpan Pungpo. Three-Dimensional Quantitative Structure-Activity Relationship (3D-QSAR) Study of Anti-Tuberculosis Agents in a Series of Isoniazid Derivatives. *The 2nd UBU-Research Conference (UBRC II)*. July 28-29, 2008, Ubon Rajathanee University, Ubonratchathani, Thailand.