

# THESES

EGAWA, Yasunobu  
D Sc, Kyoto University  
“Studies on the Synthesis of (Z)-Dialkynyldisilenes”  
Supervisor: Prof TOKITOH, Norihiro  
23 March 2015

FRISCO, Heidie Laya  
D Med Sc, Kyoto University  
“Synthetic Molecules That Protect Cells from Anoikis and Their Use in Cell Transplantation”  
Supervisor: Prof UESUGI, Motonari  
23 March 2015

HASEGAWA, Takanori  
D Inf, Kyoto University  
“Reconstructing Biological Systems Incorporating Multi-Source Biological Data via Data Assimilation Techniques”  
Supervisor: Prof AKUTSU, Tatsuya  
23 January 2015

HATA, Takushi  
D Sc, Kyoto University  
“Spin Wave Propagation in Nano-structured Devices”  
Supervisor: Prof ONO, Teruo  
13 January 2015

HIRAI, Kei  
D Sc, Kyoto University  
“Physical Property Control of Oxygen-deficient Transition-metal-oxide Heterostructures”  
Supervisor: Prof SHIMAKAWA, Yuichi  
23 March 2015

HIRAMATSU, Ryo  
D Sc, Kyoto University  
“Current Induced Spin Precession in Magnetic Domain Wall”  
Supervisor: Prof ONO, Teruo  
13 January 2015

LU, Wei  
D Inf, Kyoto University  
“Integer Programming-based Methods for Computing Minimum Reaction Modifications of Metabolic Networks for Constraint Satisfaction”  
Supervisor: Prof AKUTSU, Tatsuya  
23 March 2015

MIZUTANI, Sayaka  
D Sc, Kyoto University  
“Inferring Drug Side Effect Mechanisms Based on Associations between Drugs, Target Proteins, and Side Effects”  
Supervisor: Assoc Prof GOTO, Susumu  
23 March 2015

MORI, Tomoya  
D Inf, Kyoto University  
“Methods for Analyzing Tree-Structured Data and Their Applications to Computational Biology”  
Supervisor: Prof AKUTSU, Tatsuya  
24 September 2015

NAGATA, Masaki  
D Sc, Kyoto University  
“Spin Motive Force in Ferrimagnetic Fe<sub>3</sub>O<sub>4</sub>”  
Supervisor: Prof ONO, Teruo  
13 January 2015

NAKAGAWA, Naohisa  
D Eng, Kyoto University  
“Selective Synthesis of Alkynes and Alkenes using Iron-Catalyzed Cross-coupling and Organometallic Addition Reactions”  
Supervisor: Prof NAKAMURA, Masaharu  
25 May 2015

NAKAJIMA, Natsu  
D Inf, Kyoto University  
“Genetic Network Completion Using Dynamic Programming and Least-Squares Fitting”  
Supervisor: Prof AKUTSU, Tatsuya  
23 January 2015

NISHIHARA, Yoshitaka  
D Sc, Kyoto University  
“Non-equilibrium Current Fluctuation in Semiconductor Quantum Wire”  
Supervisor: Prof ONO, Teruo  
13 January 2015

RUAN, Peiyong  
D Inf, Kyoto University  
“Computational Methods for Analyzing Protein Complexes and Protein-Protein Interactions”  
Supervisor: Prof AKUTSU, Tatsuya  
26 March 2015

SHIGETA, Takashi  
D Pharm Sc, Kyoto University  
“Remote Asymmetric Induction by Organocatalysis”  
Supervisor: Prof KAWABATA, Takeo  
23 March 2015

SUZUKI, Shinya  
D Eng, Kyoto University  
“Rheological Properties of Telechelic Associative Polymer in Aqueous Solution”  
Supervisor: Prof WATANABE, Hiroshi  
23 July 2015

TAKANO, Shotaro  
D Sc, Kyoto University  
“Biogeochemical Cycling of Copper Isotopes in the Ocean”  
Supervisor: Prof SOHRIN, Yoshiki  
23 March 2015

TU, Kai-Min  
D Sc, Kyoto University  
“Spatial-Decomposition Analysis of Electrical Conductivity in Concentrated Ionic Systems”  
Supervisor: Assoc Prof MATUBAYASI, Nobuyuki  
22 March 2015

UECHI, Lisa  
D Inf, Kyoto University  
“Modeling of Biological and Economical Phenomena Based on Analysis of Nonlinear Competitive Systems”  
Supervisor: Prof AKUTSU, Tatsuya  
23 March 2015

WADA, Yukika  
D Sc, Kyoto University  
“Function of *Arabidopsis PIP5K3* Gene in the Root Hair Elongation Responding Phosphate Starvation”  
Supervisor: Prof AOYAMA, Takashi  
23 March 2015

WASANO, Tatsuya  
D Sc, Kyoto University  
“Syntheses and Properties of Stable Alumoles”  
Supervisor: Prof TOKITOH, Norihiro  
23 March 2015

YANG, Pan  
D Pharm Sc, Kyoto University  
“Asymmetric Synthesis of Highly Strained  $\beta$ -Lactams with Contiguous Multi-substituted Carbon Centers Based on Memory of Chirality”  
Supervisor: Prof KAWABATA, Takeo  
23 March 2015