

BioNSRRC User Student Dissertations

(2016/02/15)

2015~2003 (PhD)

76

K. Hew, Advisor Prof. P. Nordlund
“*Structural Biology of Proteins involved in the replication of Human Herpesviruses.*”
Nanyang Technological University. (2015)

75

D. Chen, Advisor Prof. P. Nordlund
“*Fragment-based drug discovery and mechanistic studies on human thymidylate synthase.*”
Nanyang Technological University. (2015)

74

V. Patel, Advisor Prof. P. Nordlund
“*Structural and Mechanistic studies of Herpes Viral Proteins.*”
Nanyang Technological University. (2015)

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S-M. Lim, Advisor Prof. P. Nordlund
“*Structural and functional studies of L-PGDS and SMPDL3a, enzymes in lipid signaling family.*”
Nanyang Technological University. (2015)

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K.-C. Ang, Advisor Prof. R. Robinson
“*P21-Activated kinase 4 and actin cytoskeleton dynamics.*”
National University of Singapore. (2015)

71

L. Wu, Advisor Prof. R. Robinson
“*Biochemical Studies of protein arginine and lysine methyltransferases.*”
National University of Singapore. (2015)

70

P. Singaravelu, Advisor Prof. R. Robinson and K. Swaminathan
“*Modulation of the actin cytoskeleton through phosphorylation of actin regulators by Yersinia YopO.*”

National University of Singapore. (2015)

- 69
Y. Zhao, Advisor Prof. D. H. Luo (羅大海), S. Vasudevan and J. Lescar
“*Structural and Functional Studies of Non-structural Protein 5 (NS5) from Dengue Virus.*”
School of Biological Sciences, Nanyang Technological University. (2015)
- 68
M.-Y. Su, Advisor Prof. C.-I. Chang
“*Analysis of the structural role of aminopeptidase 1 (Ape1) in autophagic vesicle formation.*”
Institute of Biochemical Sciences, National Taiwan University. (2015)
- 67
J. Kwok, Advisor Prof. M. Kotaka
“*Structural Studies of RIG-I-like Receptors and DAK, The Negative Regulator of MDA-5, a Member of RLR Family.*”
School of Life Science, The Chinese University of Hong Kong. (2015)
- 66
W. Nartey, Advisor Prof. G. Grüber
“*Insights into the stalk subunit δ of the Mycobacterium tuberculosis FIFO ATP synthase.*”
Nanyang Technological University. (2015)
- 65
L. Sundararaman, Advisor Prof. G. Grüber
“*Structural understanding of nucleotide binding proteins.*”
Nanyang Technological University. (2015)
- 64
T. F. Yu (尤宗富), Advisor Prof. A.-J. Wang (王惠鈞)
“*Structural insights of the ssDNA binding site in the multifunctional endonuclease AtBFN2 from Arabidopsis thaliana.*”
Institute of Bioinformatics and Structural Biology, National Tsing Hua University. (2014)
- 63
S.-Y. Lyu(呂學毅), Advisor Prof. T.-L. Li
“*Multiple Complexes of Long Aliphatic N - Acyltransferases Lead to Synthesis of 2,6-Diacylated/2-Acyl-Substituted Glycopeptide Antibiotics, Effectively Killing Vancomycin-Resistant Enterococcus.*”
Department of Microbiology and Immunology, National Yang-Ming University. (2014)
- 62
C.-W. Tseng (曾芝文), Advisor Prof. J.-R. Liu
“*Structural study and immobilization of β -1,4-endoglucanase.*”
Institute of Biotechnology, National Taiwan University. (2014)

- 61
T.-H. Wu (吳姿慧), Advisor Prof. J.-R. Liu
“*Enzyme engineering of phytase EcAppA and endoglucanase TmCel5A as the feed supplementation for nonruminant animals.*”
Institute of Biotechnology, National Taiwan University. (2014)
- 60
Y.-J. Li (李易撰), Advisor Prof. C.-D. Hsiao and Y.-J. Sun
“*Crystallographic study of the klebsiella pneumoniae RstA DNA binding domain complex with double-strand DNA Crystallographic study of the klebsiella pneumoniae PmrA complex with double-stranded DNA.*”
Department of Life Sciences, National Tsing Hua University. (2014)
- 59
K.-C. Wang (王貴貞), Advisor Prof. T.-L. Li
“*Structure-based catalytic mechanisms of galacto-N-biose/lacto-N-biose I phosphorylase and N-acetylhexosamine 1-kinase in the LNB/GNB pathway of Bifidobacterium longum.*”
Genomics Research Center, Academia Sinica CBMB program, TIGP, Academia Sinica. (2014)
- 58
P.V. Dip, Advisor Prof. G. Grüber
“*Structural and functional insights into subunit a of Saccharomyces cerevisiae V-ATPase and the Escherichia coli Alkyl Hydroperoxide Reductase complex*”
School of Biological Sciences, Nanyang Technological University. (2014)
- 57
S. Basak, Advisor Prof. G. Grüber
“*Structures and regulation of coupling subunit F and the arrangement of the subunit DF-assembly in the Saccharomyces cerevisiae VIVO ATPase*”
School of Biological Sciences, Nanyang Technological University. (2014)
- 56
T.-L. Chou (周聰麟), Advisor Prof. A.-J. Wang (王惠鈞)
“*A. Structural studies of AtBFN2, a nuclease from Arabidopsis thaliana and its catalytic mechanism B. Structural basis for distinct susceptibilities of snake venom metalloproteinases to the endogenous tripeptide inhibitors.*”
Institute of Biochemical Science, National Taiwan University. (2013)
- 55
H.-Y. Fu (傅煦媛), Advisor Prof. C.-S. Yang (楊啟伸)
“*Many faces of rhodopsin in Halobacteria*”
Biochemical Science and Technology, National Taiwan University. (2013)
- 54

Y.-C. Liu (劉祐禎), Ph.D. Thesis, Advisor Prof. T.-L. Li (李宗璘)
“**Structure- and mechanism-based enzyme design for biologically active new chemical entities on glycopeptide antibiotics**”
Genomics Research Center, Academia Sinica CBMB program, TIGP, Academia Sinica. (2013)

53
Y.-S. Chang (張永昇), Ph.D. Thesis, Advisor Prof. W.-Y. Jeng (鄭文義)
“Design, Structure Determination, and Biological Evaluation of Potent Integrin alpha5beta1 and/or alphavbeta3-Specific Antagonists Using the Ninth and/or Tenth Modules of Fibronectin Type III Domain”
National Cheng Kung University.(2013)

52
D. Singh, Advisor Prof. G. Grüber
“*Structure and mechanistic study on the A1 ATPase.*”
Nanyang Technological University. (2013)

51
J.-H. Kuo (郭哲宏), Advisor Prof. S.-C. Su (蘇士哲), and W.-G. Wu (吳文桂)
“*Alternative C-Terminal Helix Orientation Alters Chemokine Function: Structural Basis for Deficient Heparin Binding of the Chemokine CXCL4L1.*”
Department of Life Sciences, National Tsing Hua University. (2013)

50
Y.-S. Cheng (鄭雅珊), Advisor Prof. R.-T. Guo (郭瑞庭), and J.-R. Liu (劉嘉睿),
“*Crystal structural studies and genetic engineering of Thermotoga maritima cellulase Cel12A.*”
Institute of Biotechnology, National Taiwan University. (2013)

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Y.-F. Zeng (曾意芳), Advisor Prof. J.-R. Liu (劉嘉睿)
“*Switchable gene or virus delivery system using pH-sensitive polymeric carrier for biomedical application*”
Institute of Biotechnology, National Taiwan University. (2013)

48
P. Stephen, Advisor Prof. P.-C. Lyu (呂平江),
“*Protein Engineering Methods to Modify the Binding Behavior of Starch Binding Domain (RoCBM21)*”
Institute of Bioinformatics and Structural Biology, National Tsing Hua University. (2012)

47
Y.-C. Su (蘇義哲), Advisor Prof. S.-H. Chou (周三和),
“*Structure and functional analysis of c-di-GMP detection by an innate immune adaptor protein STING*”
Department of Biochemistry, National Chung Hsing University, (2012).

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J.-L. Tu (涂誌樂), Advisor Prof. S.-H. Chou (周三和),
"Structural Polymorphism of C-di-GMP Bound to an EAL Domain of FimX and in Complex with a Type II PilZ Domain Protein"
Department of Biochemistry, National Chung Hsing University, (2012).

45

H.-M. Wu (吳信茂), Advisor Prof. W.-C. Wang (王雯靜),
"Crystal structure of lysine-preferred racemases provide insights into substrate and PLP binding frameworks"
Department of Life Sciences, National Tsing Hua University, (2012).

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C.-C. Wu (吳至忠), Advisor Prof. C.-D. Hsiao (蕭傳鐙),
"Crystal Structure of DnaK Protein Complexed with Nucleotide Exchange Factor GrpE in DnaK Chaperone System"
IMB, Academia Sinica, (2012).

43

C.-Y. Huang (黃佳瑩), Advisor Prof. C. Ma (馬徹),
"Crystal Structure of *S. Aureus* Transglycosylase in Complex with a Lipid II Analog and Elucidation of Peptidoglycan Synthesis Mechanism"
Genomics Research Center, Academia Sinica, (2012).

42

S. Nag, Advisor Prof. R. C. Robinson,
"Structural Analysis of Calcium-induced Changes in Gelsolin and Adseverin"
Inst. of Molecular & Cell Biology (IMCB) PhD, (2012).

41

T. Rimlumduan, Advisor Prof. J. R. Cairns
"Structural and Functional studies of rice beta-galactosidase"
Inst. of Molecular & Cell Biology (IMCB) PhD (2012).

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Y.-C. Lo (羅彥中), Advisor Prof. A.-J. Wang (王惠鈞)
"Studies on the Inhibitory Mechanism of New Terpyridine Platinum(II) Complexes toward Mammalian Topoisomerases, Human Thioredoxin Reductase 1 and Cysteine Proteases"
[新三聯吡啶類鉑錯合物對哺乳類拓撲異構酶、人類第一型硫氧還原蛋白還原和半胱氨酸蛋白酶抑制作用機制的研究] (2011).

39

C.-Y. Chang (張晉源), Advisor Prof. T.-K. Wu (吳東昆)
"Crystal Structure and Mutational Analysis of Aminoacylhistidine Dipeptidase (PepD) from *Vibrio alginolyticus*"
[溶藻弧菌胺醯組胺酸胜肽酶之晶體結構與突變分析]
Department of Biol. Science & Technology, National Chiao Tung University (2011).

- 38
Y.-H. Lo (羅羽華), Advisor Prof. C.-D. Hsiao (蕭傳鏗)
“*Structural and Functional Studies of a Replicative Helicase GkDnaC Reveal an Insight into Tranlocation and Unwinding Mechanism*”
[複製蛋白 DNA 解旋酶的結構與功能探討揭示其易位模式及 DNA 解旋機制] (2011).
- 37
V. S. Tadwal, Advisor Prof. G. Grüber
“*Crystallographic Details of the Nucleotide-binding Pocket of Subunit A and B of A-ATP Synthases and Insight into the Nucleotide-binding Subunit Alpha of the Escherichia Coli F-ATP Synthases*”
Nanyang Technological University (2011).
- 36
P. Ragunathan, Advisor Prof. G. Grüber
“*Structure and Functional Studies of Two Significant Metabolism Enzymes in Helicobacter pylori*”
Nanyang Technological University (2011).
- 35
H.-C. Chan (詹秀倩), Advisor Prof. M.-D. Tsai (蔡明道) and T.-L. Li (李宗璘)
“*Genomics Research Center, Academia Sinica, "Lipoglycopeptide Antibiotics: Enzyme Structure- and Function-based Modification for New Teicoplanin Analogs & Elucidating Biosynthesis of Beta-OH Enduracididine in Mannopectimycin*
[酯醣肽類抗生素：利用酵素結構與功能衍生新穎 teicoplanin 類似物及探討 mannopectimycin 中不尋常胺基酸 beta-OH enduracididine 的生合成]” (2011).
- 34
P.-H. Kuo (郭邦賢), Advisor Prof. S.-H. Yuan (袁小玲)
“*Structural Insights into TDP-43 in Nucleic Acid Binding and Domain Interaction*”
[TDP-43 與核酸結合及特殊區域間之相互作用的結構研究] (2011).
- 33
Y.-Y. Hsiao (蕭育源), Advisor Prof. S.-H. Yuan (袁小玲)
“*Structural and Functional Studies of the DEDDh-family Exonucleases in DNA and RNA Metabolism*” (2011).
- 32
Y.-T. Wang (王宜婷), Advisor Prof. S.-H. Yuan (袁小玲)
“*TDP-43 Domain Structure and Aggregation Studies*[TDP-43 結構與纖維化之研究]” (2011).
- 31
(李宜靜), Ph.D. Thesis, Advisor Prof. N.-L. Chan (詹迺立),
“*Structural and Functional Analyses of Wild Type and Mutant Prostacyclin Synthase*”
College of Medicine, National Taiwan University, (2010).

- 30
L.-Y. Lin (林麗瑩), Ph.D. Thesis, Advisor Prof. N.-L. Chan (詹迺立),
"Structural studies of bacterial type II secretion system component EpsL and transcription regulator MerR1 of mercury resistance operon TnMERII"
College of Medicine, National Taiwan University, (2010).
- 29
H.-M. Chu (朱鑫懋), Ph.D. Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)
"Understanding the Pivotal Step in Cytokinin Synthesis: Crystal Structure, Substrate Specificity and Catalytic Mechanism of Adenylate Isopentenyltransferase from *H. lupulus*"
Institute of Biochemical Sciences, National Taiwan University (2010).
- 28
L.-T. Chen (陳立慈), Ph.D. Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)
"Structural and Functional Analysis of RecA-like Recombinases and Rationally Designed Peptides that Modulate the RecA Activities"
Institute of Biochemical Sciences, National Taiwan University (2010).
- 27
J.-Y. Tung (董容羽), Advisor Prof. Y.-J. Sun (孫玉珠)
"Crystal Structures of Starch Binding Domain of *Rhizopus oryzae* Glucoamylase Reveal a Polysaccharide Binding Path Calcium Binds to LipL32, a Lipoprotein from Pathogenic *Leptospira*, and Modulates Fibronectin Binding"
[米根黴糖澱粉酶澱粉結合區域的晶體結構與多醣結合路徑之研究致病性鉤端螺絲體之脂蛋白 LipL32 與鈣離子及纖維連接蛋白的結合能力的研究] (2010).
- 26
S. Pengthaisong, Ph.D. Thesis, Advisor Prof. J. R. K. Cairns,
"Structure-Function Relationships in Rice BGlul1 Beta-Glucosidase"
Institute of Science, Suranaree University of Technology, (2010).
- 25
S.-J. Liao (廖淑如), Ph.D. Thesis, Advisor Prof. S.-H. Chou (周三和),
"Insights into the Alkyl Peroxide Reduction Pathway of Xanthomonas Campestris Bacterioferritin Comigratory Protein from the Trapped Intermediate–ligand Complex Structures"
Department of Biochemistry, National Chung Hsing University, (2010).
- 24
Y.-W. Chang (張毅偉), Ph.D. Thesis, Advisor Prof. C.-D. Hsiao (蕭傳鐙),
1. "Crystal Structures of the 70-kDa Heat Shock Proteins in Domain Disjoining Conformation"
2. "Crystal Structure of *Saccharomyces Cerevisiae* Get4-Get5 Complex Involved in Tail-anchored Membrane Protein Targeting"

IMB, Academia Sinica, (2010).

- 23
A. Kumar, Ph.D. Thesis, Advisor Prof. G. Grüber,
“*The Trail of Nucleotides and the Traits of ADP/ATP-binding Inside the Subunits A and B of the Archaeal Energy Producer AIAO ATP Synthase*”
School of Biological Sciences, Nanyang Technological University, (2010).
- 22
C.-C Yang (楊哲權), Ph. D. Thesis, Advisor Prof. H. S. Yuan (袁小玲)
“*Structural and Functional Studies of CRN-5 and Rrp46 in Apoptotic DNA Degradation*”
Institute of Biochemistry and Molecular Biology, National Taiwan University (2010).
- 21
Z. Shi (石仲浩), Ph.D. Thesis, Advisor Prof. S.-H. Yuan (袁小玲)
“*Structural and Functional Studies of Polynucleotide Phosphorylase in RNA Binding and Degradation*”
Institute of Biochemistry and Molecular Biology, National Taiwan University (2009).
- 20
K.-L. Tsai (蔡光磊), Ph.D. Thesis, Advisor Prof. C.-D. Hsiao (蕭傳鐙)
“*Structural Study of Human Forkhead Transcriptional Factor FOXO3a Bound to DNA*”,
“*Structural and Functional Studies of Replicative Helicase and Helicase Loader*” (2009)
- 19
C.-H. Chu(朱真嬉), Ph. D. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*Structure and Functional Studies of Two Significant Metabolism Enzymes in Helicobacter pylori*”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2009).
- 18
S. Chumnarsilpa, Ph. D Thesis, Advisor Prof. R.C. Robinson
“*The Structural Basis of the Control of Actin Dynamics by the Gelsolin Superfamily of Proteins*”
Department of Medical Biochemistry and Microbiology, Uppsala University, Sweden (2009).
- 17
Q. Ma, Ph. D Thesis, Advisor Prof. R.C. Robinson
“*Structural and Functional Studies of Gelsolin Family Proteins*”
Department of Medical Biochemistry and Microbiology, Uppsala University, Sweden (2009).
- 16
H.-J. Chen (陳蕙如), Ph. D Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)
“*Structure, Assembly, and Mechanism of a PLP-dependent Dodecameric L-Aspartate β -decarboxylase*”
Institute of Biochemical Sciences, National Taiwan University (2009).

- 15
S.-C. Chen (陳勝嘉), Ph. D Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Structural and Functional Studies of Various Deaminases and Reductases Involved in Riboflavin Biosynthesis*”
Institute of Biochemistry and Molecular Biology, National Yang-Ming University (2009).
- 14
W.-C. Cheng (鄭文琦), Ph. D Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Structure-based Discovery of Helicobacter pylori and Mycobacterium tuberculosis Shikimate Kinase Inhibitors*”
Institute of Molecular and Cellular Biology, Tsing Hua University (2009).
- 13
S. Seshadri, Ph. D Thesis, Advisor Prof. James R. Ketudat Cairns
“*Structure and Function of Rice (Oryza sativa L.) β -Glucosidase*”
School of Biochemistry, Suranaree University of Technology (2009).
- 12
Y.-K. Wang (王裕國), Ph. D. Thesis, Advisor Prof. T. Li (李天雄)
“*Identification and Biochemical Characterization of Hemolytic Activity Emerging from Hemolysin and Non-Hemolysin Gene*”
Institute of Biological Science and Technology, National Chiao Tung University (2008).
- 11
C.-H. Huang (黃駿翔), Ph. D Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Glucooligosaccharide Oxidase from Acremonium strictum: Crystal Structure, 6-S-Cysteinylyl, 8 α -N1-Histidyl FAD and Enzyme Mechanism*”
Institute of Genome Sciences, National Yang-Ming University (2008).
- 10
Chuenchor W., Advisor Prof. James R. Ketudat Cairns
“(2007)
- 9
S. C. Tjong (張秀晶), Ph. D Thesis, Advisor Prof. W.-G. Wu(吳文桂)
“*Sulfoglycoconjugates Interact with Cobra Cardiotoxin*”
Department of Life Science, National Tsing-Hua University (2007).
- 8
J.-Y. Tsai (蔡佳吟), Ph. D Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*Structural Genomic Study of Helicobacter pylori Proteins by X-ray Crystallography*”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2007).
- 7
C.-Y. Chen (陳青諭), Ph. D Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)
“*Probing the DNA Kink Structure Induced by the Hyperthermophilic Chromosomal Protein Sac7d using Site-directed Mutagenesis and X-ray*

Crystallography”

Department of Chemistry, Taiwan University (2005).

6

Y. Chen (陳擘), Ph. D Thesis, Advisor Prof. N.-L. Chan (詹迺立)

“*Structural and Functional Analyses of the N-terminal Domain of XpsE, An Essential Component of the Xanthomonas campestris Type II Secretion System*”

Institute of Biochemistry, Chung Hsing University (2005).

5

W.-C. Chiu (邱偉鈞), Ph. D Thesis, Advisor Prof. W.-C. Wang (王雯靜)

“*Structural Basis for Catalytic Racemization and Substrate Specificity of an N-acylamino Acid Racemase Homologue from Deinococcus Radiodurans*”

Institute of Molecular and Cellular Biology, Tsing Hua University (2005).

4

M.-F. Hsu (許敏峯), Ph. D Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)

“*Structural and Functional Analysis of Sialic Acid Synthase*”

Institute of Biochemical Sciences, Taiwan University (2005).

3

K.-F. Huang (黃開發), Ph. D Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)

“*Post-translationally Pyroglutamate Formation on Proteins: Studies on Protein Production, Crystal Structures, Catalysis Mechanism, Inhibition and Pathophysiology of Human Glutaminyl Cyclase*”

Institute of Biochemical Sciences, Taiwan University (2005).

2

J.-S. Liu (劉家欣), Ph. D Thesis, Advisor Prof. W.-C. Wang (王雯靜)

“*Studies on the Rhizopus Sp. Aspartic Protease and X-ray Crystallography Crystal Structure*”

Institute of Molecular and Cellular Biology, Tsing Hua University (2005).

1

C.-L. Li (李家隆), Ph. D. Thesis, Advisor Prof. H. S. Yuan (袁小玲)

“*Structural and Functional Characterization of Two Enzymes Involved in DNA Synthesis and Breakdown: Vibrio Vulnificus Nuclease (Vvn) and Human Cytosolic Thymidine Kinase*”

Department of Biochemistry and Molecular Biology, College of Medicine, Taiwan University (2003).

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H.-H. Lin (林欣慧), Advisor Prof. P.-C. Lyu (呂平江)
"dFABP *Drosophila* Fatty Acid-Binding Protein."
Institute of Bioinformatics and Structural Biology, National Tsing Hua University. (2015)

159

L. Silapasom, Advisor Prof. K. Krusong
"Cloning and expression of pullulanase from *Weissella confusa*."
Faculty of Science, Department of Biochemistry, Chulalongkorn University. (2015)

158

J.-C. Yin (尹睿婕), Advisor Prof. S.-Y. Wang (王淑鶯)
"Crystal structure and functional analysis of the *Clostridium difficile* sortase."
Department of Microbiology and Immunology, National Cheng Kung University. (2015)

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C.-W. Lin (林均蔚), Advisor Prof. J.-H. Liu (劉俊宏)
"Improvement of metal ions acquisition ability of Dps protein from *Klebsiella oxytoca*."
Institute of Genomics and Bioinformatics, National Chung Hsing University. (2015)

156

S.-J. Chuang (莊尚儒), Advisor Prof. C.-Y. Chou (周記源)
"Studies on the inhibitory mechanism of human ubiquitin specific protease 2 by thiopurine analogues."
Department of Life Science, National Yang-Ming University. (2015)

155

Reamonn Ko (高耀駿), Advisor Prof. M. Kotaka
"X-ray Crystallographic Studies of *Plasmodium falciparum* Adenylate Kinases."
Dept. of Physiology, The Univ. of Hong Kong. (2015)

154

K. Jaturontakul, Advisor Prof. K. Krusong
"Characterization of viral responsive protein 15 and its possible role in nuclear import/export of virus in black tiger shrimp *Penaeus monodon*."
Department of Biochemistry, Faculty of Science, Chulalongkorn University. (2014)

153

S. Arayamethakorn, Advisor Prof. K. Krusong

"Structure and Function Analysis of crustinPm1 and crustinPm7 from black tiger shrimp *Penaeus monodon*."
Department of Biochemistry, Faculty of Science, Chulalongkorn University. (2014)

152

(劉冠廷), Advisor Prof. C.-S. Yang (楊啟伸),
"Convert an unknown function microbial rhodopsin from *Haloquadratum walsbyi* into a light-driven proton pump."
Biochemical Science and Technology, National Taiwan University. (2014)

151

(蔡存傑), Advisor Prof. C.-S. Yang (楊啟伸)
"New insights of a photocurrent method for functional measurement of light-driven ion transportation in microbial rhodopsins".
Biochemical Science and Technology, National Taiwan University. (2014)

150

Ann (韓怡安), Advisor Prof. C.-S. Yang (楊啟伸)
"A study on the Functionality and Assistant Role in Phylogenetic Analysis of the Bacteriorhodopsin Cloned from a *Haloarcula vallismortis* New Strain Candidate."
Biochemical Science and Technology, National Taiwan University. (2014)

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stansi (莊千瑩), Advisor Prof. M.-H. Hou (侯明宏)
"Mechanism studies of hornet venom phospholipase A1 catalysis and the Co(II) complex dimeric chromomycin A3 acting on DNA triplet repeats with X-ray crystallography."
Institute of Genomics and Bioinformatics, National Chung Hsing University. (2014)

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Y.-W. Chen (陳譽文), Advisor Prof. M.-H. Hou (侯明宏),
"Structural basis for unusual DNA conformations in CGG/CCG triplet repeats."
Institute of Genomics and Bioinformatics, National Chung Hsing University. (2014)

147

Y.-S. Cao (曹詠翔), Advisor Prof. S.-Y. Wang (王淑鶯)
"Functional study and X-ray diffraction analysis of the global regulator protein CsrA from *Helicobacter pylori*."
Department of Microbiology and Immunology, National Cheng Kung University. (2014)

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C.-S. Lee (李玢嫻), Advisor Prof. W.-Y. Jeng (鄭文義)
"Structural and Functional Studies of *Staphylococcus aureus* VraSR Two-Component System."
National Cheng Kung University. (2014)

145

王婷筠, Advisor Prof. C.-Y. Chou (周記源)

"Flip-Flop mechanism of SARS coronavirus main protease half-of- the-sites reactivity in a dimer."

Department of Life Science, National Yang-Ming University. (2014)

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TWJ (涂瑋儒), Advisor Prof. Y.-J. Sun (孫玉珠)

"Interaction analysis of the chromosome segregation proteins, Soj and Spo0J from Helicobacter pylori."

Department of Life Sciences, National Tsing Hua University. (2014)

143

S.-Y. Lin (林省言), Advisor Prof. M.-H. Hou (侯明宏)

"Structure basis for identification of the N- terminal domain of coronavirus nucleocapsid protein as a potent antiviral target for drug development."

Institute of Genomics and Bioinformatics, National Chung Hsing University. (2013)

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W.-H. Tseng (曾文萱), Advisor Prof. M.-H. Hou (侯明宏)

"Structural basis for the specific binding of the Ni(II) complex of dimeric chromomycin A3 to CCG trinucleotide repeats associated with neurological disease".

Institute of Genomics and Bioinformatics, National Chung Hsing University. (2013)

141

Y.-C. Huang (黃詠琪), Advisor Prof. Y.-S. Cheng (鄭貽生)

"Molecular function of Ipomoelin in oligomerization for antibacterial and insecticidal ability."

Department of Life Science & Institute of Plant Biology, National Taiwan University . (2013)

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C.-C. Chen (陳仲勤), Advisor Prof. W.-C. Wang (王雯靜)

"Crystal Structure and Inhibitor Kinetics of Human Histone Demethylase Lysine-Specific Demethylase 4B (KDM4B)"

Department of Life Sciences, National Tsing Hua University. (2013)

139

M.-W. Kang (康邁文), Advisor Prof. S.-H. Chou (周三和)

"Biochemical and structural studies of DacA and LSm14A, a c-di-AMP synthetase and a DNA sensor, respectively."

Department of Biochemistry, National Chung Hsing University. (2013)

138

Y. -T. Yu (游雅婷), Advisor Prof. S.-H. Chou (周三和)

"Studies of the Xcc Hrp regulatory protein FhrR and human innate immunity dsRNA receptor protein DDX1-DDX21 complex."

Department of Biochemistry, National Chung Hsing University. (2013)

137

C.-K. Cheng (陳正鋼), Advisor Prof. S.-H. Chou (周三和)
"Structure and function studies of human STING and mouse STING"
Department of Biochemistry, National Chung Hsing University. (2013)

136

H.Huang (黃世勳), Advisor Prof. Y.-J. Sun (孫玉珠)
"Biophysical characteristics of C-terminal domain of LipL41 from pathogenic *Leptospira*. "
Department of Life Sciences, National Tsing Hua University. (2013)

135

C.-E. Hsu (許嘉恩), Advisor Prof. Y.-J. Sun (孫玉珠)
"Structural and Functional Investigation of Spo0J from *Helicobacter pylori*"
Department of Life Sciences, National Tsing Hua University. (2013)

134

T.-Y. Yang (楊姿筠), Advisor Prof. Y.-J. Sun (孫玉珠)
"Structural and functional analysis of the chromosome segregation protein Soj from *Helicobacter pylori*"
Department of Life Sciences, National Tsing Hua University. (2013)

133

D.-S. Kao (高得翔), Advisor Prof. C.-H. Hsu (徐駿森)
"Structural Basis for the Interaction of UBZ4-Type UBD from *Spartan* with Ubiquitin."
Genome and Systems Biology Degree Program, National Taiwan University. (2013)

132

Y.-R. Jhang (張宜叡), Advisor Prof. C.-H. Hsu (徐駿森)
"Structure and Functional Analysis of Zebrafish Spermidine/Spermine N1-Acetyltransferase: Insight into the Substrate Recognition."
Department of Agricultural Chemistry, National Taiwan University. (2013)

131

Y.-T. Lin (林易霆), Advisor Prof. S.-H. Liaw (廖淑惠)
"Mutational Analysis of Poly(3-hydroxybutyrate) Depolymerase from *Bacillus thuringiensis*"
Department of Life Science, National Yang-Ming University. (2013)

130

Y.-S. Lo (羅羽昇), Advisor Prof. M.-H. Hou (侯明宏)
"Structural basis for unusual DNA conformations: implications for neurological diseases. "
Institute of Genomics and Bioinformatics, National Chung Hsing University. (2013)

129

HYC (陳虹頤), Advisor Prof. (周記源)

"Structural basis of ubiquitin recognition by the severe acute respiratory syndrome coronavirus papain-like protease."

Department of Life Science, National Yang-Ming University. (2013)

128

Y.-S. Cheng (鄭雅珊), M.S. Thesis, Advisor Prof. (劉嘉睿)

"Crystal structural studies and genetic engineering of Thermotoga maritima cellulase Cel12A."

Institute of Biotechnology, National Taiwan University. (2013)

127

H.-P. Yi (易修平), Advisor Prof. C.-S. Yang (楊啟伸)

"Establishment of an Indium tin oxide (ITO)-coated electrochemical device for monitoring the dynamic movements of ions and microbial rhodopsins"

Biochemical Science and Technology, National Taiwan University. (2013)

126

Y.-C. Chen (陳怡臻), Advisor Prof. S.-H. Yuan (袁小玲),

"Structural and Functional Studies of TatD in DNA Binding and Degradation"

IMB, Academia Sinica. (2012)

125

P. J. Shan (白如珊), Advisor Prof. (周記源), and S.-H. Liaw (廖淑惠),

"Functional Roles of Dimerization in the Glycopeptide Hexose Oxidase Dbv29"

Department of Life Science, National Yang-Ming University. (2012)

124

Y.-A. Chou (周衍安), Advisor Prof. C.-Y. Chou (周記源), Department of Life Science, National Yang-Ming University and T.-H. Lin (林達顯),

"Structural Determination of ApoE(222-271) by X-ray Crystallography"

Institute of Biochemistry and Molecular Biology, National Yang-Ming University, (2012)

123

Y.-W. Chou (周雅文), Advisor Prof. C.-Y. Chou (周記源),

"Differential Domain Stability and Zn²⁺ Protection of the Severe Acute Respiratory Syndrome Coronavirus Papain-like Protease"

Department of Life Science, National Yang-Ming University. (2012)

122

Y.-H. Huang (黃彥華), Advisor Prof. C.-Y. Huang (黃晟洋),

"Comparative Study on ssDNA Binding-modes of SSB and PriB"

Department of Biomedical Sciences, Chung Shan Medical University (2012)

121

C.-C. Hsieh (謝佳展), Advisor Prof. H.-S. Yin (殷獻生),
"*Forward Kinetic Assay of Phosphopantetheine Adenylyltransferase from Helicobacter pylori and Its Critical Residue Mutants*"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2012)

120

Y.-L. Wu (吳以樂), Advisor Prof. H.-S. Yin (殷獻生),
"*Proteomics Analysis of Avian Reovirus Infected Host Cells to Identify Candidate Proteins Involved in Virus Infection Mechanisms*"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University. (2012)

119

Y.-W. Hua (花玉紋), Advisor Prof. W.-C. Wang (王雯靜),
"*Investigation of Helicobacter Pylori Virulence Factors : Amidase and Flagella-associated Regulators*"
Department of Life Sciences, National Tsing Hua University. (2012)

118

C.-Y. Yang (楊政諭), Advisor Prof. C.-I. Chang (張崇毅),
"*Purification and Crystallization of MtaLonA1 from Meiothermus Taiwanensis*"
College of Life Science, National Taiwan University. (2012)

117

J.-K. Li (黎振凱), Advisor Prof. C.-I. Chang (張崇毅),
"*Structural Analysis of the N-terminal Domain of MtaLonC from Meiothermus Taiwanensis*"
College of Life Science, National Taiwan University. (2012)

116

S.-J. Hung (洪聖柔), Advisor Prof. J.-H. Liu (劉俊宏),
"*PERT: an Integrated Informatics Platform for Thermostable Protein Design*"
Institute of Genomics and Bioinformatics, National Chung Hsing University. (2012)

115

R.-E. Wu (吳瑞恩), Advisor Prof. J.-H. Liu (劉俊宏)
"*Protein-protein Interaction Study of Rsc8 and Htl1 from Saccharomyces cerevisiae*"
Institute of Genomics and Bioinformatics, National Chung Hsing University. (2012)

114

W.-C. Hsiao (蕭文鵬), Advisor Prof. S.-C. Lin (林世昌), and C.-M. Chen (陳全木),
"*Structural and Biochemical Studies of the Toll-like Receptor TIR Domain and Adaptor Protein TIR Domain Interaction*"
Department of Life Sciences, National Chung Hsing University. (2012)

113

- C.-H. Fei (費俊憲), Advisor Prof. S.-Y. Wang (王淑鶯)
"*Studies on the Interaction between the Peroxide Regulator PerR and its cognate DNA in Streptococcus pyogenes*"
Department of Microbiology and Immunology, National Cheng Kung University. (2012)
- 112
W. T. Huang (黃婉婷), Advisor Prof. T.-K. Wu (吳東昆)
"*The Study of Mutational Effect on Hemolytic Activity, Membrane Binding Ability, and Protein Quaternary Structure of Thermostable Direct Hemolysin (TDH) from Grimontia hollisae.*"
Department of Biol. Science & Technology, National Chiao Tung University. (2012).
- 111
Y.-C. Tsai (蔡彥俊), Advisor Prof. Y.-J. Sun (孫玉珠)
"*crystal Structure of Cell Binding Factor from Helicobacter pylori.* "
Department of Life Sciences, National Tsing Hua University. (2012).
- 110
Y. Duh (杜莉雲), Advisor Prof. H. S. Yuan (袁小玲), Institute of Molecular Biology and J.-C. Huang (黃智生)
"*Insights into the Sequence Specificity of RNase T in Digestion of Nucleic Acids.* "
Department of Biotechnology and Laboratory Science in Medicine, National Yang Ming University. (2012).
- 109
C.-M. Hsieh (謝詔名), M.S. Thesis, Advisor Prof. N.-L. Chan (詹迺立),
"*Toward the Structural Analyese of Human Topoisomerase IIIalpha and IIIbeta*"
College of Medicine, National Taiwan University, (2012).
- 108
H. Y. L (廖泓淵), M.S. Thesis, Advisor Prof. N.-L. Chan (詹迺立),
"*Structural Analyses of Thromboxane Synthase*"
College of Medicine, National Taiwan University, (2012).
- 107
J.-N. Liao (廖貞妮), M.S. Thesis, Advisor Prof. P.-C. Lyu (呂平江),
"*Enzyme kinetic and substrate/ligand binding of Drosophila dopamine N-acetyltransferase*"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University, (2012).
- 106
C.-Y. Nien (粘值菴), M.S. Thesis, Advisor Prof. J.-H. Liu (劉俊宏),
"1. *Crystal structure determination of glutaredoxin from Chlorella sorokiniana T-89*
2. *Crystal structure determination and kinetics analysis of trehalose synthase from Picrophilus torridus* "
Institute of Genomics and Bioinformatics, National Chung Hsing University., (2012).

- 105
Y. S. LIN (林育賢), M.S. Thesis, Advisor Prof. S.-H. Chou (周三和),
"Structure and functional studies of the Stenotrophomonas maltophilia SM0233 protein containing a cNMP binding domain and a GGDEF diguanylate cyclase domain"
Department of Biochemistry, National Chung Hsing University, (2012).
- 104
J. I. Liu (劉俊良), M.S. Thesis, Advisor Prof. S.-H. Chou (周三和),
"Structure and function studies of protein Xcc6448 in complex with cGMP from Xanthomonas campestris"
Department of Biochemistry, National Chung Hsing University, (2012).
- 103
Y.-T. Liao (廖怡婷), M.S. Thesis, Advisor Prof. S.-H. Chou (周三和),
"Preparation and functional studies of FimXEAL-c-di-GMP and FimXEAL-c-di-GMP-PilZ complexes from Xanthomonas campestris"
Department of Biochemistry, National Chung Hsing University, (2012).
- 102
T.-J. Chen (陳燦然), M.S. Thesis, Advisor Prof. W.-C. Wang (王雯靜),
"Structure-activity Investigation of Shikimate Pathway Enzyme from Helicobacter pylori and Mycobacterium tuberculosis: Shikimate Dehydrogenase and 3-Dehydroquinase Synthase"
Department of Life Sciences, National Tsing Hua University, (2012).
- 101
K.-W. Fan (范凱雯), M.S. Thesis, Advisor Prof. Y.-S. Cheng (鄭貽生),
"Study on Functional Domain of Tarocystatin for Oligomerization and Inhibition Activity"
Department of Life Science & Institute of Plant Biology National Taiwan University, (2012).
- 100
C.-Y. Chen (陳俊彥), M.S. Thesis, Advisor Prof. Y.-S. Cheng (鄭貽生),
"Crystal structure of FIP1 and its cooperative activity with FIN219/JAR1"
Department of Life Science & Institute of Plant Biology National Taiwan University, (2012).
- 99
S.-H. Lin-Chung (林張聖彙), Advisor Prof. S.-Y. Wang (王淑鶯),
"Effect of Metal Ions on the Structure and Function of PerR in Group A Streptococcus"
National Cheng Kung University. (2012)
- 98
Y.-H. Tsao (曹藝薰), Advisor Prof. W.-N. Huang (黃維寧)
"The Study of Phospholipase A2 and Inhibitors Interaction."

Department of Biotechnology, Yuanpei University. (2011)

97

H.-T. Chen (陳希滌), Advisor Prof. (周記源), and S.-H. Liaw (廖淑惠)
"Cofactor preference and structural stability of various reductases in riboflavin biosynthesis"
Department of Life Science, National Yang-Ming University. (2011)

96

Y.-W. Chen (陳昱廷), Advisor Prof. H.-S. Yin (殷獻生)
"Crystallization and coenzyme A binding assay of phosphopantetheine adenylyltransferase mutants from *Helicobacter pylori*."
Institute of Bioinformatics and Structural Biology, National Tsing Hua University. (2011)

95

M. C. Hung (洪銘駿), Advisor Prof. Y. Chen (陳擘)
"Purification and Crystal Structural Analysis of the Blue Fluorescent Protein of *Vibrio Vulnificus*"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2011).

94

C.-L. Chen (陳嘉龍), Advisor Prof. Y.-J. Sun (孫玉珠)
"Crystal Structure of *Helicobacter Pylori* Glutathionylspermidine Synthetase ATP Complex"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2011).

93

C.-H. Lin (林佳欣), Advisor Prof. W.-C. Wang (王雯靜)
"Biochemical Characterization and Drug Discovery of Shikimate Dehydrogenase from *Helicobacter pylori*"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2011).

92

K.-W. Chen (陳冠文), Advisor Prof. W.-C. Wang (王雯靜)
"Structural Determination of Flavin-dependent Thymidylate Synthase from *Campylobacter jejuni*"
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2011).

91

Y.-C. Yu (余宜家), Advisor Prof. Y.-J. Sun (孫玉珠)
"Crystal Structure and Functional Studies of the Cell Binding Factor from *Helicobacter pylori*"
[幽門螺旋桿菌細胞結合因子晶體結構與功能之研究]
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2011).

90

C. C. Wei (張竹璋), Advisor Prof. J.-H. Liu (劉俊宏)
"Improvement of Thermostability of Trehalose Synthase from *Picrophilus Torridus*"

[提升 *Picrophilus torridus* 海藻糖合成酶的熱穩定性](2011).

- 89
W. C. Chang (張維健), Advisor Prof. Y.-S. Cheng (鄭貽生)
“*Quaternary Structural and Energetic Analysis of Ipomoelin in Complex with Various Carbohydrates Reveals Its Versatile Binding Properties*[甘藷凝集素 ipomoelin 四級結構與多種醣類之熱力學分析顯示其多變的結合特性]”(2011).
- 88
W. L. Law, Advisor Prof. M. Kotaka
“*Expression, Purification and Preliminary X-ray Crystallographic Studies of Two Nucleotide Binding Proteins.*”
(2011).
- 87
P. Prasert, Advisor Prof. J. R. Cairns
“*Structural Analysis of Sugar Binding to BGl1 E176Q and Its Transglycosylation Products.*”
(2011).
- 86
H.-Y. Lai (賴興顛), Advisor Prof. C.-Y. Chou (周記源)
“*Interaction Between Severe Acute Respiratory Syndrome Coronavirus Papain-like Protease and its Ligand*”
[嚴重急性呼吸道症候群之似木瓜素蛋白水解酶與其反應物及兩種抑制劑結合之探討].
Department of Life Science, National Yang-Ming University (2010).
- 85
W. S. Lu (呂文翔), Advisor Prof. H.-S. Yin (殷獻生)
“*High-Resolution Crystal Structure of Chicken Cytokine Interleukin-1 Beta Reveals Differences in Receptor Binding Compared to Human Interleukin-1 Beta*”
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2010).
- 84
I.-J. Chen (陳怡蓉), Advisor Prof. M.-H. Hou (侯明宏)
“*The Crucial Role of Arg106 in RNA-binding of Human Coronavirus OC43 Nucleocapsid Protein*”
[探討人類冠狀病毒 OC43 核殼蛋白的 Arg106 與 RNA 結合的分子機制]
National Chung Hsing University (2010).
- 83
P.-C. Chen (陳品臻), Advisor Prof. Y.-J. Sun (孫玉珠)
“*Crystal Structure of Helicobacter pylori Uridine Monophosphate Kinase GTP Complex Reveals an Allosteric Regulation*”
[幽門螺旋桿菌尿嘧啶核苷酸激酶 GTP 複合物晶體結構及其異位調控機制]
Department of Life Sciences, National Tsing Hua University (2010).

- 82
S.-W. Lin (林士暉), Advisor Prof. Y.-J. Sun (孫玉珠)
“Crystal Structures of Starch Binding Domain of Glucoamylase from *Rhizopus oryzae* in Complex with Isomaltooligosaccharide”
[米根黴菌葡萄糖澱粉酶之澱粉結合蛋白與異麥芽寡糖複合物晶體結構之研究]
Department of Life Sciences, National Tsing Hua University (2010).
- 81
Y.-S. Wen (溫怡翔), Advisor Prof. W.-C. Wang (王雯靜)
“Crystal Structure of the Dehydroquinase Synthase Complex from *Mycobacterium Tuberculosis*”
Department of Life Sciences, National Tsing Hua University (2010).
- 80
W.-T. Chung (鍾宛婷), Advisor Prof. W.-C. Wang (王雯靜)
“Crystal Structure of Extracellular Metalloprotease Precursor from *Bacillus Subtilis*”
Department of Life Sciences, National Tsing Hua University (2010).
- 79,
S.-Y. Chao (趙世宇), Advisor Prof. S.-Y. Wang (王淑鶯)
“Structural Studies of the Stress Response Regulator PerR from *Streptococcus Pyogenes*”
[以蛋白質晶體學方法探討化膿性鏈球菌壓力調控因子 PerR 的結構與功能關係之研究]
Department of Microbiology and Immunology, National Cheng Kung University (2010).
- 78
C.-C. Liu (劉家彰), Advisor Prof. W.-C. Wang (王雯靜)
“Cholesteryl- α -D-Glucopyranoside Influences Lateral Membrane Fluidity of Model Membrane”
Department of Life Sciences, National Tsing Hua University (2010).
- 77
X.-Y. Lin (林仙雅), Advisor Prof. S.-H. Chou (周三和)
“Crystal Structure of RpfF and Crystallization of RpfB from *Stenotrophomonas Maltophilia* : Potential Target Proteins for Novel Antibiotics Development via Quorum Quenching”
Department of Biochemistry, National Chung Hsing University (2010).
- 76
H.-W. Lin (林宏瑋), Advisor Prof. S.-H. Chou (周三和)
“Expression and Crystallization of *Xanthomonas HrpG*、*HrpB5* and *XC3070* Proteins Essential for its Infection of Host Plants”
Department of Biochemistry, National Chung Hsing University (2010).
- 75

W.-C. Tsai (蔡宛津), Advisor Prof. S.-H. Chou (周三和)

“*Structure and Function Studies of the Key Quorum Sensing Protein RpfG and General Stress Protein SM1250 from Stenotrophomonas Maltophilia*”

Department of Biochemistry, National Chung Hsing University (2010).

74

C.-H. Hong (洪春琇), Advisor Prof. J.-H. Liu (劉俊宏)

“*Investigation of the Structural Basis for Thermostability of Trehalose Synthase from Picrophilus Torridus*”

[以結構為基礎探討 picrophilus torridus 海藻糖合成酶的熱穩定性]

Biotechnology Center, National Chung Hsing University (2010).

73

S.-C. Chen (陳祥銓), Advisor Prof. C.-Y. Chou (周記源)

“*The Correlation between Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) Main Protease Dimerization and Its Catalytic Activity*”

Department of Life Science, National Yang-Ming University (2010).

72

Y.-J. Hsu (許毓容), M.S. Thesis, Advisor Prof. J.-H. Liu (劉俊宏),

“*Structural Studies on Yeast Htl-Rsc8 Interaction*”

Department of Life Science, National Chung Hsing University, (2010).

71

T.-Y. Kuo (郭姿妍), M.S. Thesis, Advisor Prof. Y.-S. Cheng (鄭貽生),

“*Complex Structure of FIN219, a JA-amino Acid Synthetase, in Complex with FIPI*”

Graduate Institute of Plant Science, National Taiwan University, (2010).

70

K.-L. Liu (劉凱倫), M.S. Thesis, Advisor Prof. Y.-S. Cheng (鄭貽生),

“*Crystal Structures of Ipomoelin in Complex with Various Carbohydrates, MMP, MGP and Sialic Acid*”

Graduate Institute of Plant Science, National Taiwan University, (2010).

69

C-L Huang (黃其良), M. S. Thesis, Advisor Prof. H. S. Yuan (袁小玲)

“*Structural and Functional Analysis of Cyp-13, a Nuclease involved in DNA fragmentation during apoptosis*”

Institute of Genome Sciences, National Yang-Ming University (2010).

68

C.-H. Hsiao (蕭敬樺), M.S. Thesis, Advisor Prof. L.-C. Tsai (蔡麗珠)

“Structural and Functional Analysis of Truncated Fibrobacter succinogenes 1,3-1,4-β-D-glucanase Mutant W203F”
Department of Molecular Science and Engineering, National Taipei University of Technology (2009).

- 67
T.-H. Juan (阮子軒), M.S. Thesis, Advisor Prof. J.-H. Liu (劉俊宏),
“Structural Studies on Lily LMADS1 Homo-dimerization”
Department of Life Science, National Chung Hsing University, (2009).
- 66
M.-C. Huang (黃慕清), M.S. Thesis, Advisor Prof. J.-H. Liu (劉俊宏),
1. *“Crystallization of Rsc8 from Saccharomyces cerevisiae”*,
2. *“Crystallization of Xanthomonas campestris Type III Effectors, AvrBs1.1, XccA1 and PphE”*
Department of Life Science, National Chung Hsing University, (2009).
- 65
T.-Y. Tsai (蔡東益), M. S. Thesis, Advisor Prof. S.-H. Chou (周三和)
“Xanthomonas campestris PqqD in the Pyrroloquinoline Quinine Biosynthesis Operon Adopts a Novel Saddle-like Fold that Possibly Serves as a PQQ Carrier”
Institute of Biochemistry, National Chung-Hsing University (2009).
- 64
Y.-C. Teng (鄧怡君), M. S. Thesis, Advisor Prof. S.-H. Chou (周三和)
“Functional Analyses of the Unique Xanthomonas campestris RecA C-terminal Domain”
Institute of Biochemistry, National Chung-Hsing University (2009).
- 63
Z.-L. Qiu (邱振良), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“Crystal Structural Studies of Glutathioylspermidine Synthetase from Helicobacter pylori”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2009).
- 62
M.-H. Liu (劉慕萱), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“Crystal Structural Study of Uridine Monophosphate Kinase from Helicobacter pylori”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2009).
- 61
C.-W. Chen (陳翠紋), M. S. Thesis, Advisor Prof. C.-H. Hsu (徐駿森)
“The Structure Basis of FAK-derived Phosphotyrosine-peptide Bound to Grb2-SH2 Domain”
Institute of Life Science, National Taiwan Normal University (2009).
- 60

C.-M. Chang (張家銘), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Crystal Structure of Thymidylate Synthases from Corynebacterium glutamicum NCHU87078*”
Institute of Molecular and Cellular Biology, National Tsing Hua University (2009).

59

T.-H. Chang (張庭皓), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Substrate Specificity and Cofactor Preference of Mathanosarcina mazei Rib7 Reductase Involved in Riboflavin Biosynthesis*”
Department of Life Sciences and Institute of Genome Sciences, National Yang-Ming University (2009).

58

C.-Y. Chou (周倩玉), M. S. Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)
“*Crystal Structure and Substrate Enantioselectivity of L-3-deoxy-manno-2-octulosonic Acid (L-KDO) Aldolase*”
Institute of Biochemical Sciences, National Taiwan University (2009).

57

M.-H. Chu (朱明宏), M. S. Thesis, Advisor Prof. Y.-S. Cheng (鄭貽生)
“*Domain Analysis of Tarocystatin Bioinformatic and Biochemical Assay*”
Institute of Plant Biology, National Taiwan University (2009).

56

K.-L. Ho (何昆霖), M. S. Thesis, Advisor Prof. W.-G. Wu(吳文桂)
“*Multiple Mechanisms of Cobra Cardiotoxin Internalization into Cardiomyocytes*”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2009).

55

S.-S. Ho (何思勳), M. S. Thesis, Advisor Prof. Y.-S. Cheng (鄭貽生)
“*Purification, Crystallization and Biochemical Assay of FIN219 and the Complex of FIN219-FIP1*”
Institute of Plant Biology, National Taiwan University (2009).

54

C.-C. Lin (林建竹), M. S. Thesis, Advisor Prof. W.-G. Wu(吳文桂)
“*The Effects of Integrin and Heparin Binding on the Enzymatic Activity and Specificity of Taiwan Cobra SVMs*”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2009).

53

S.-C. Lin (林雙志), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Crystal Structure of Shikimate Dehydrogenase from Helicobacter pylori*”
Institute of Molecular and Cellular Biology, National Tsing Hua University (2009).

52

S. Sansenya, M. S. Thesis, Advisor Prof. James R. Ketudat Cairns

“*Crystallization and Preliminary Structure Determination of a Rice β -Glucosidase*”
School of Biochemistry, Suranaree University of Technology (2009).

- 51
I.-L. Wang (王顛隸), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Structural Studies of the C-terminal Domain of Human APOBEC3G*”
Department of Life Sciences and Institute of Genome Sciences, National Yang-Ming University (2009).
- 50
H.-Y. Fu (傅煦媛), Advisor Prof. C.-S. Yang(楊啟伸)
“*Expression of Six Photoreceptors in Haloarcula Marismortui Unveiled Unique Photosensing Feature*”
Institute of Microbiology and Biochemistry National Taiwan University (2008).
- 49
C.-Y. Chen (陳錦義), Advisor Prof. Y.-J. Sun(孫玉珠)
“*Structural Studies of Carboxynorspermidine Decarboxylase (HPCANSDC) from Helocobacter pylori*”
Institute of Bioinformatics and Structural Biology, National Tsing Hua University (2008).
- 48
Y.-W. Chang (張育璋), Advisor Prof. A. H.-J. Wang(王惠鈞)
“*Crystal Structure of Sulfolobus Solfataricus RadA: Three New Conformations and Their Implications in Homologous Recombination*”
Department of Biochemical Sciences, National Taiwan University (2008).
- 47
K.-T. Chen (陳冠佐), M. S. Thesis, Advisor Prof. K.-L. Lou (樓國隆)
“*Expression, Purification, Crystallization and SAXS Analysis of Human Thrombomodulin Domains*”
Graduate Institute of Oral Biology, National Taiwan University (2008).
- 46
T.-W. Chiang (江庭蔚), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure and Analysis of Esterase Complex with DL-ATIA from Pseudomonas pudita*”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2008).
- 45
Y.-W. Huang (黃彥維), M. S. Thesis, Advisor Prof. W.-G. Wu(吳文桂)
“*N-glycosylation and its Effect on the Enzymatic Activity of SVM P*”
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- 44
C.-Y. Jen (任君宇), M. S. Thesis, Advisor Prof. W.-G. Wu(吳文桂)
“*Role of Taiwan Cobra Cardiotoxins Internalization on Cardiomyocyte H9C2 Cells Cytotoxicity*”

Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2008).

- 43
Y.-C. Tien (田岳衢), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Structure and functional analysis of Glyceraldehyde-3-phosphate dehydrogenase from Oryza sativa*”
Institute of Bioinformatic and Structural Biology, National Tsing-Hua University (2008).
- 42
Y.-Y. Tseng (曾鈺雅), M. S. Thesis, Advisor Prof. W.-G. Wu (吳文桂)
“*Endocytic Pathway of Heparan Sulfate Binding HATH Domain with and without Receptor Binding*”
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- 41
H.-C. Yu (游蕙嘉), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
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- 40
Y.-L. Chiang (江元郎), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
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- 39
H.-T. Li (李欣黛), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure and Functional Study of the Bowman-Birk Inhibitor from Rice Bran in Ternary Complex with Bovine Trypsin*”
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- 38
Y.-A. Liou (劉益安), M. S. Thesis, Advisor Prof. W.-G. Wu (吳文桂)
“*Endocytosis of Toxins and Growth Factors: A Role of Sulfo-glycoconjugates in Tuning Specificity and Capacity*”
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- 37
E.-H. Liu (劉恩鴻), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Complex Structure of Xylanase with Xylo-oligosaccharides from Trichoderma harzianum ETS323 : Structural Evidence for Glycosyl Transferase Reaction*”
Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2007).
- 36
Y.-Y. Liu (劉儼毅), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*Crystal Structures of Starch Binding Domain from Rhizopus oryzae Glucoamylase in Complex with β -Cyclodextrin and Maltoheptaose*”

Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2007).

35

W.-Y. Peng (彭文彥), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Structure and Function Study of Rice Bifunctional α -amylase/subtilisin Inhibitor from *Oryza sativa*”*

Institute of Bioinformatics and Structural Biology, National Tsing-Hua University (2007).

34

J.-W. Chang (張鈞威), M. S. Thesis, Advisor Prof. S.-F. Yu (俞聖法)
“*The Functional Studies of Alkane Oxygenases*”

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33

M.-F. Huang (黃名芬), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Crystal Structures of an Archaeal Nucleotide Deaminase*”

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32

T.-F. Huang (黃天鋒), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure of Branched-chain Aminotransferases (BCAT) from *Thermus thermophilus* HB8*”

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31

C.-Y. Kuo (郭爵源), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Structure and Function Study of Chitinase and Mutants from *Bacillus cereus* NCTU2*”

Institute of Bioinformatic and Structural Biology, Tsing Hua University (2006).

30

Y.-H. Lin (林俞昕), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Crystal Structures of *Bacillus subtilis* RibG-inhibitor Complexes*”

Faculty of Biotechnology and Laboratory Science & Institute of Biochemistry in Medicine, Yang-Ming University (2006)

29

C.-W. Wu (吳金汶), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure and Function Study of Lectin and Sugar Complex in Rice (*Oryza Sativa*)*”

Institute of Bioinformatic and Structural Biology, Tsing Hua University (2006).

28

Y. C. Chang (張芄芷), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Crystal Structure of *Bacillus Subtilis* RibG*”

Institute of Biochemistry, Yang-Ming University (2005).

27

Y.-C. Chen (陳彥誠), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Study on Shikimate 5-dehydrogenase (aroE) of Helicobacter pylori*”
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26

C.-L. Ching (景崇倫), M. S. Thesis, Advisor Prof. N.-L. Chan (詹迺立)
“*Structural Studies of the XC441 Conserved Hypothetical Protein*”
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25

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“*Crystallographic Study of PriB and Single Strand DNA Complex Structure*”
Institute of Bioinformatic and Structural Biology, Tsing Hua University (2005).

24

C.-W. Huang (黃佳文), M. S. Thesis, Advisor Prof. N.-L. Chan (詹迺立)
“*Structural Studies of the N-terminal Half (Residues 1-291) of XpsE Protein*”
Institute of Biochemistry, Chung Hsing University (2005).

23

H.-C. Huang (黃馨樞), M. S. Thesis, Advisor Prof. H. S. Yuan (袁小玲)
“*Mutagenesis and Crystal Structural Analysis of the H-N-H Endonuclease ColE7*”
Institute of Biochemistry, Yang Ming University (2005).

22

C.-C. Lai (賴俊傑), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Study on the Histidine Kinase of Helicobacter pylori*”
Institute of Molecular and Cellular Biology, Tsing Hua University (2005).

21

N.-C. Lu (呂南畿), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Crystal Structure of Rhizopus Sp. Aspartic Protease at 1.1Å*”
Institute of Molecular and Cellular Biology, Tsing Hua University (2005).

20

C.-H. Shih (石家豪), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure of Rice Lectin from Oryza sativa*”
Institute of Bioinformatics and Structural Biology, Tsing Hua University (2005).

19

K.-L. Tsai (蔡光磊), M. S. Thesis, Advisor Prof. C.-D. Hsiao (蕭傳鐙)
“*Structural and Functional Study of ILF Protein*”
Institute of Bioinformatic and Structural Biology, Tsing Hua University (2005).

18

Y. J. Chang (張育瑞), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Crystal Structure of Bacillus subtilis Guanine Deaminase*”
Institute of Biotechnology in Medicine, Yang-Ming University (2004).

17

Y.-N. Chang (張育寧), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)
“*Crystal Structure of N-acyl-D-glucosamine 2-epimerase from Anabaena at 2.0 Å*”
Institute of Molecular and Cellular Biology, Tsing Hua University (2004).

16

T.-C. Chao (趙悌均), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*The Crystal Structure of Inorganic Pyrophosphatase from Helicobacter Pylori*”
Institute of Bioinformatics & Structural Biology, Tsing Hua University (2004).

15

B.-T. Chen (陳柏蒼), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*Crystal Structure of HP0242, A Hypothetical Protein from Helicobacter pylori with a Novel Fold*”
Institute of Bioinformatics and Structural Biology, Tsing Hua University (2004).

14

S.-Y. Chien (簡湘誼), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*The Crystal Structure of Spermidine Synthase from Helicobacter pylori*”
Institute of Bioinformatics & Structural Biology, Tsing Hua University (2004).

13

C.-Y. Hsu (許貞陽), M. S. Thesis, Advisor Prof. C.-D. Hsiao (蕭傳鐙)
“*Crystallographic Study of PriB Complexed with Single Strand DNA*”
Department of Life Science, Tsing Hua University (2004).

12

T. H. Huang (黃則豪), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Structural Studies of the Mite Allergen Group 7, Der p 7*”
Institute of Biochemistry, Yang-Ming University (2004).

11

N.-C. Lu (呂南畿), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)

“*Crystal Structure of Rhizopus Sp. Aspartic Protease at 1.1Å*”
Institute of Molecular and Cellular Biology, Tsing Hua University (2004).

10

P.-K. Lu (呂博凱), M. S. Thesis, Advisor Prof. Y.-J. Sun (孫玉珠)
“*Crystal Structure of Spermidine Synthase from Helicobacter pylori : A Rossmann-like Fold With a Distinctive Active Site*”
Institute of Bioinformatics and Structural Biology, Tsing Hua University (2004).

9

Y. L. Wang (王詠霖), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*Crystal Structures of HCV NS3 Helicase in Complex with DNA and NTP*”
Institute of Biochemistry, Yang-Ming University (2004).

8

L. Y. Cho (卓聯洋), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*The Functional Role of the Binuclear Center in D-aminoacylase*”
Department of Biochemistry, Yang-Ming University (2003).

7

F.-Y. Chung (鍾豐宇), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure of Cardiotoxin VI from Taiwan Cobra (naja atra) Venom at 1.6 Å Resolution*”
Department of Life Sciences, Tsing Hua University (2003).

6

J.-Y. Huang (黃任延), M. S. Thesis, Advisor Prof. C.-J. Chen (陳俊榮)
“*Crystal Structure of Nucleoside Diphosphate Kinase in Rice*”
Department of Life Sciences, Tsing Hua University (2003).

5

W.-C. Huang (黃玟甄), M. S. Thesis, Advisor Prof. A. H.-J. Wang (王惠鈞)
“*The 3-D Structure and Surface Properties of Human Post-translational Modifier Proteins SUMO-1/2/3*”
Department of Biomedical Sciences, Sun Yat-Sen University (2003).

4

C. Y. Ting (丁俊余), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*The Metal Inhibition Mechanism of D-aminoacylase*”
Department of Biochemistry, Yang-Ming University (2003).

3

M. L. Tsai (蔡孟麟), M. S. Thesis, Advisor Prof. S.-H. Liaw (廖淑惠)
“*The Detailed Interaction between YMI and Carbohydrates*”

Department of Biochemistry, Yang-Ming University (2003).

2

C.-L. Wu (吳峻崑), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)

“Crystal Structure of Deinococcus Radiodurans N-acylamino Acid Racemase at 1.3Å ”

Institute of Molecular and Cellular Biology, Tsing Hua University (2003).

1

J.-Y. You (游季禹), M. S. Thesis, Advisor Prof. W.-C. Wang (王雯靜)

“Engineering of Agrobacterium Radiobacter N-carbamoyl D-amino Acid Amidohydrolase to Increase Thermostability by a Structure-based Approach ”

Institute of Molecular and Cellular Biology, Tsing Hua University (2003).