

AsCA'13



Hong Kong



The 12th Meeting of the Asian Crystallographic
Association

7-10 December 2013

The Hong Kong University of Science and Technology

Poster Sessions

All abstracts not accepted for Oral presentation are invited for presentation as Posters. Please note the poster board panel size is A0 (90cm wide x 122cm high). It is suggested that posters be printed with some margin for these dimensions (for example 30 x 40 inches). All posters may be displayed from Sunday morning through Monday evening. Presentations will be made during the times indicated. The current list of poster titles, authors and numbers is given below.

Poster Session 1 (odd numbers) Sunday 8 December 16.15-18.00

Poster Session 2 (even numbers) Monday 9 December 16.15-18.00

- P-001 **THE STUDY ON THE ROLE OF CONSERVED TRIPLE PEPTIDE IN ELECTRON TRANSFER IN COTA LACCASE**
Ganggang Wang^{1, 2)}, Tian Xie^{1, 2, 3)}, Zhongchuan Liu^{1, 2) 1)} *Chengdu Institute of Biology, Chinese Academy of Sciences, Chengdu, China.*²⁾*Key Laboratory of Environmental and Applied Microbiology, Chinese Academy of Sciences; Chengdu, China.*³⁾*University of Chinese Academy of Sciences, Beijing, China.* (ASCA130009)
- P-002 **EXPERIMENTAL STUDY OF RESISTIVITY OF YTTRIUM SUBSTITUTED GDCU₂**
Dinesh Prasa^{1,2} and K.K. Choudhary^{2 1} *College Tuwa, India,* ² *Shri Vaishnav Institute of Technology & Science, Indore, India* (ASCA130010)
- P-003 **DIRECT MAPPING OF STRAINED FIELD OF THE SIGE/SI INTERFACE USING X-RAY THREE-BEAM**
Yan-Zong Zheng¹, Sih-Sian Li³, Ya-Ting Ye¹, Jhih-Huei Yan¹, Yan-Kun Su³, Shih-Lin Chang^{1,2},
¹*National Tsing Hua University, Hsinchu, Taiwan,* ²*National Synchrotron Radiation Research Center, Hsinchu, Taiwan,* ³ *National Cheng Kung University, Tainan* (ASCA130011)
- P-004 **THE PHASE SHIFTS OF THE RESONANT X-RAY SCATTERING IN GERMANIUM CRYSTAL**
Po-Yu Liao¹, Wen-Chung Liu¹, Chih-Hao Cheng¹, Yi-Hua Chiu² and Shih-Lin Chang^{1,2}, ¹*National Tsing Hua University, Hsinchu, Taiwan,* ²*National Synchrotron Radiation Research Center, Taiwan* (ASCA130012)
- P-005 **STRUCTURAL BASIS OF POLY(3-HYDROXYLBUTYRATE) HYDROLYSIS BY PHAZ DEPOLYMERASE FROM *BACILLAS THURINGIENSIS***
Yung-Lin, Wang¹, Shwu-Huey Liaw¹, ¹*National Yang-Ming University, Taiwan* (ASCA130013)
- P-006 **PECULIAR RESPONSE OF THE MODEL HEME COMPLEXES TO THE EXTERNAL STIMULI**
Y. Ohgo,¹ D. Hashizume,² and S. Neva^{3, 1} *Teikyo University, Tokyo, Japan,* ²*RIKEN, Saitama, Japan,* ³*Chiba University, Japan.* (ASCA130014)
- P-007 **THERMALLY REVERSIBLE SINGLE-CRYSTAL TO SINGLE-CRYSTAL TRANSFORMATION OF MONONUCLEAR TO DINUCLEAR Zn(II) COMPLEXES BY [2+2] CYCLOADDITION REACTION**
Raghavender Medishetty, Terence Teck Sheng Yap, Lip Lin Koh and Jagadese J. Vittal*, *National University of Singapore, Singapore.* (ASCA130015)
- P-008 **CRYSTAL STRUCTURE OF THE RV2258C PROTEIN FROM *MYCOBACTERIUM TUBERCULOSIS*, A PUTATIVE S-ADENOSYLMETHIONINE-DEPENDENT METHYLTRANSFERASE**
Ha Na Im and Se Won Suh^{*}, *Seoul National University, Korea* (ASCA130016)

- P-009 **HOMOCHIRAL METAL-ORGANIC FRAMEWORK CRYSTALS FOR ENANTIOMER SEPARATION**
Koichi Tanaka,¹ Toshihide Muraoka,¹ Daisuke Hirayama¹ and Atushi Ohnishi^{2, 1}*Kansai University, Japan, ²CPI Company, Daicel Corporation., Japan.* (ASCA130018)
- P-010 **CRYSTAL STRUCTURE OF THE Csd3 PROTEIN FROM *HELICOBACTER PYLORI*, A MEMBER OF M23B METALLOPEPTIDASE FAMILY**
Doo Ri An and Se Won Suh, *Seoul National University, Korea.* (ASCA130019)
- P-011 **CRYSTAL STRUCTURE OF Ga-SUBSTITUTED FERREDOXIN AND ITS INTERACTION SITES FOR PHOTOSYSTEM I AND FERREDOXIN-NADP+ REDUCTASE**
Risa Mutoh¹, Norifumi Muraki¹, Hisako Kubota-Kawai¹, Toshiharu Hase¹, Takahisa Ikegami¹ and Genji Kurisu¹, *¹Institute for Protein Research, Osaka University, Japan* (ASCA130021)
- P-012 **THE TLR SIGNALING ADAPTOR TRIF/TICAM-1 HAS AN N-TERMINAL HELICAL DOMAIN WITH STRUCTURAL SIMILARITY TO IFIT PROTEINS**
M. Obayed Ullah, Thomas Ve and Bostjan Kobe, *The University of Queensland, Brisbane, Australia* (ASCA 130022)
- P-013 **IRON(II) SPIN CROSSOVER COMPLEX WITH SIX INDEPENDENT MOLECULES IN THE ASYMMETRIC UNIT: STRUCTURAL STUDIES OF THERMAL- AND LIGHT-INDUCED SPIN TRANSITION**
Songwuit Chanthee,¹ Kittipong Chainok,^{1*} Supawadee Namuangruk,² Cindy Mauriac,³ Philippe Guionneau,³ and Jean-François Létard^{3, 1}*Naresuan University, Thailand, ²National Science and Technology Development Agency, Thailand, ³CNRS, ICMCB, Groupe des Sciences Moléculaires, France* (ASCA130027)
- P-014 **STUDY OF CATALYTIC COUPLING AND ROLE OF HYDROPHOBIC CAVITIES IN STRUCTURE AND FUNCTION OF AN ENZYME IN PURINE BIOSYNTHETIC PATHWAY**
Ajay Singh Tanwar,¹ Venuka Durani Goyal,¹ Santosh Panjekar,^{2,3} Ruchi Anand^{1, 1}*Indian Institute of Technology Bombay, India, ²Australian Synchrotron, Australia, ³Monash University, Australia* (ASCA130029)
- P-015 **STRUCTURAL AND FUNCTIONAL STUDY OF THE EUKARYOTIC *ORPINOMYCES SP. Y102* OsCel6 CATALYTIC DOMAIN C7**
Hsiao-Chuan Huang, Li-Chu Tsai^{*}, *Institute of Organic and Polymeric Materials, National Taipei University of Technology, Taiwan* (ASCA130030)
- P-016 **STRUCTURAL INSIGHTS INTO THE PREFERENTIAL HYDROXYMETHYLCYTOSINE BINDING OF UHRF2**
Mingzhu Wang¹, Ting Zhou^{1,2}, Jun Xiong³, Yanbo Li¹, Jiemin Wong⁴, Bing Zhu³, and Rui-Ming Xu¹, *¹Chinese Academy of Sciences, China; ²University of Chinese Academy of Sciences, China; ³National Institute of Biological Sciences, , China; ⁴East China Normal University, China* (ASCA130033)
- P-017 **EXPLORATION OF STABILIZING MECHANISMS REVEALS A COMPREHENSIVE STRATEGY FOR PROTEIN THERMAL STABILIZATION**
Sojin Moon and Euiyoung Bae, *Seoul National University, Korea* (ASCA130034)

- P-018 **STRUCTURE REFINEMENT OF LEGRANDITE $Zn_2AsO_4(OH) \cdot H_2O$**
 Satoshi Jinnouchi¹, Akira Yoshiasa¹, Kazumasa Sugiyama², Hiroshi Arima², Reiko Shimura² and Riturou Miyawaki³, ¹ Kumamoto University, Japan, ² Tohoku University, Japan, ³ National Science Museum, Japan (ASCA130037)
- P-019 **METAL-ORGANIC ORGANO-POLYMERIC HYBRID FRAMEWORK BY [2+2] CYCLOADDITION REACTION**
 In-Hyeok Park¹, Anjana Chanthapally², Zhenjie Zhang³, Shim Sung Lee^{1,*}, Michael J. Zaworotko³ and Jagadese J. Vittal^{1,2,*}, ¹ Gyeongsang National University, S. Korea, ² National University of Singapore, Singapore, ³ University of South Florida, USA (ASCA130040)
- P-020 **CRYSTAL STRUCTURE OF FLAVIN REDUCTASE FROM RHIZOBIUM SP. STRAIN MTP-10005**
 Yasuo Hata¹, Takae Yamauchi¹, Tomomi Fujii¹, Masahiro Yoshida² and Tadao Oikawa², ¹ Kyoto University, Japan, ² Materials and Bioengineering, Kansai University, Osaka, Japan. (ASCA130041)
- P-021 **CHARACTERIZATION OF A DIFFRACTION PROFILE USING THE FOURTH CUMULANT**
 Prabal Dasgupta¹ & G.B. Mitra²
^{1&2} Indian Association for the Cultivation of Science, Kolkata, India. (ASCA130042)
- P-022 **STRUCTURAL BASIS FOR THE INHIBITION OF MYCOBACTERIUM TUBERCULOSIS L,D-TRANSPEPTIDASE BY MEROPENEM**
 Hye-Jin Yoon, Hyoun Sook Kim, Byung Woo Han, and Se Won Suh, Seoul National University, Korea (ASCA130043)
- P-023 **STRUCTURAL INSIGHTS INTO BAK ACTIVATION**
 Brouwer JM^{1,2}, Robin AY^{1,2}, Thompson GV^{1,2}, Wardak AZ^{1,2}, Colman PM^{1,2}, and Czabotar PE^{1,2}, ¹Walter and Eliza Hall Institute of Medical Research, Australia, ²The University of Melbourne, Australia (ASCA130045)
- P-024 **EVOLUTIONARY PROTEIN INTERFACE CLASSIFICATION: A NEW TOOL FOR MACROMOLECULAR CRYSTALLOGRAPHY**
 Jose M Duarte¹, Adam Srebnik², Kumaran Baskaran¹, Nikhil Biyani¹, Martin A. Schärer¹ and Guido Capitani¹, ¹ Paul Scherrer Institute, Villigen, Switzerland. ²SyBIT, ETH Zurich, Switzerland. (ASCA130049)
- P-025 **XANES AND EXAFS STUDY ON Zr LOCAL STRUCTURE IN IMPACT-RELATED GLASSES**
 Tsubasa Tobase¹, Ling Wang¹, Maki Okube², Tomotaka Nakatani¹ and Akira Yoshiasa¹, ¹ Kumamoto University, Japan, ²Tokyo Institute of Technology, Japan. (ASCA130054)
- P-026 **CRYSTAL STRUCTURE AND REACTION MECHANISM OF ARCHAEL DIACETYLCHITOBIOSYL DEACETYLASE**
 Tsutomu Nakamura¹, Mayumi Niiyama¹, Takahisa Ikegami², Daisuke Koma³, Takashi Ohmoto³, Wakana Hashimoto^{1,4}, Junji Morita⁴, and Koichi Uegaki¹, ¹National Institute of Advanced Industrial Science and Technology, Japan, ²Osaka University, Japan, ³Osaka Municipal Technical Research Institute, Japan, ⁴Doshisha Women's College of Liberal Arts, Japan. (ASCA130057)
- P-027 **WATER-MEDIATED SUPRAMOLECULAR ARCHITECTURE OF Co(III)-PHENANTHRO-LINE COMPLEXES: WEAK INTERACTIONS FACILITATE 2D-LAYER AND 3D-SQUARE CAVITY ARRANGEMENTS**
 Thammarat Aree¹, Ajnesh Singh², Raj P. Sharma² and Paloth Venugopalan², ¹ Chulalongkorn University, Thailand, ²Panjab University, India. (ASCA130059)

- P-028 **STRUCTURE OF [K₃(phen)₈][Cu(NPh₂)₂]₃ AND (Phen)KNPh₂: POSSIBLE INTERMEDIATE IN THE COPPER(I)-CATALYZED N-ARYLATION OF N-PHENYLANILINE**
Shin-Guang Shyu¹, Chia-Kai Tseng^{1,2}, Chien-Chung Han², ¹*Academia Sinica, Taiwan*, ²*National Tsing Hua University, Taiwan*. (ASCA130060)
- P-029 **DYNAMICS OF AN INTRINSICALLY DISORDERED PROTEIN (hiAPP) AND IMPLICATION FOR THE AGGREGATION MECHANISM**
Qin Qiao¹, Gregory R. Bowman² and Xuhui Huang^{1*}, ¹*The Hong Kong University of Science and Technology*, ²*University of California, Berkeley*. (ASCA130061)
- P-030 **IMMUNOGLOBULIN DEGLYCOSYLATION BY BACTERIAL ENDOGLYCOSIDASE S IS ASSISTED BY THE PRESENCE OF A CARBOHYDRATE BINDING MODULE**
Emma V. Dixon^{1,5}, Jolyon K. Claridge², David J. Harvey^{1,3}, Kavitha Baruah¹, Xiaojie Yu¹, Snezana Vesiljevic¹, Susan Mattick¹, Benjamin Krishna¹, Christopher N. Scanlan^{1,4}, Jason R. Schnell², Matthew K. Higgins², Nicole Zitzmann¹, Max Crispin¹, ¹*University of Oxford, UK*, ²*University of Oxford, UK*, ³*University of Warwick, UK*, ⁴*Passed away on the 4th May 2013*. (ASCA130064)
- P-031 **DEHYDRATION / HYDRATION INDUCED COLOR SWITCHING OF QUINOLONE ANTIBACTERIAL AGENT CRYSTALS REVEALED BY POWDER STRUCTURE ANALYSIS**
Aya Sakon¹, Akiko Sekine¹ and Hidehiro Uekusa¹, ¹*Tokyo Institute of Technology, Japan* (ASCA130067)
- P-032 **STRUCTURE-INFORMED DESIGN OF AN ENZYMATICALLY INACTIVE VACCINE COMPONENT FOR GROUP A STREPTOCOCCUS**
 Anna Henningham¹, Daniel J. Ericsson¹, Karla Langer¹, Lachlan W. Casey¹, Blagojce Jovcevski², G. S. Chhatwal³, J. Andrew Aquilina², Michael R. Batzloff⁴, Bostjan Kobe^{1,5}, Mark J. Walker¹, ¹*University of Queensland, Australia*, ²*University of Wollongong, Australia*, ³*Helmholtz Centre for Infection Research, Germany*, ⁴*Griffith University, Southport, Australia*, ⁵*University of Queensland, Australia* (ASCA130069)
- P-033 **STRUCTURE OF MEFENAMIC ACID CO-CRYSTAL WITH THE EXTENDED CARBOXYLIC ACID DIMER SYNTHON BY POWDER X-RAY STRUCTURE ANALYSIS**
Shintaro Mori, Akiko Sekine, and Hidehiro Uekusa, *Tokyo Institute of Technology, Japan* (ASCA130070)
- P-034 **CRYSTAL STRUCTURE OF HUMAN COLON CANCER ANTIGEN 1 IN COMPLEX WITH THE FAB FRAGMENT REVEALS INSIGHTS INTO ITS RECOGNITION MECHANISM**
Yuji Kado¹, Eiichi Mizohata¹, Satoru Nagatoishi², Keiko Shinoda³, Taisuke Nakayama¹, Takuma Yoshizumi¹, Mariko Iijima³, Akira Sugiyama³, Takeshi Kawamura³, Young Han Lee³, Hirofumi Doi³, Hideaki Fujitani³, Tatsuhiko Kodama³, Yoshikazu Shibasaki³, Kouhei Tsumoto² and Tsuyoshi Inoue¹ ¹*Osaka University, Japan*, ^{2,3}*The University of Tokyo, Japan* (ASCA130071)
- P-035 **FLUORESCENCE SWITCHING OF MACROCYCLIC BORONIC ESTER BY REVERSIBLE ABSORPTION / DESORPTION OF NAPHTHALENE MOLECULE**
Kohei Johmoto^{1,3}, Hidehiro Uekusa^{1,3}, Yuji Kikuchi^{2,3}, Hiroki Takahagi^{2,3}, Kosuke Ono^{2,3}, Nobuharu Iwasawa^{2,3} ^{1,2}*Tokyo Institute of Technology, Japan*, ³*JST CREST* (ASCA130072)
- P-036 **PHASE STABILITY AND CRYSTAL STRUCTURE OF SB-TE AND BI-TE BINARY SYSTEM**
Takuya Tachizawa¹, Yoshiki Kubota¹, Kouichi Kifune², Toshiyuki Matsunaga³, Noboru Yamada⁴ and Masaki Takata⁵ ¹*Osaka Prefecture University, Japan*, ²*Hiroshima Institute of Technology, Japan*, ³*Panasonic Corporation, Japan*, ⁴*Kyoto University, Japan*, ⁵*RIKEN/SPring-8 Center, Japan* (ASCA130073)

- P-037 **CRYSTAL STRUCTURE OF SYS SCROFA QUINOLINATE PHOSPHORIBOSYLTRANSFERASE IN COMPLEX WITH NICOTINATE MONONUCLEOTIDE**
Youngjin Lee^{1,2}, Hyung-Seop Youn^{1,2}, Mun-Kyoung Kim¹, Gil Bu Kang¹, Tae Gyun Kim^{1,2}, Jung-Gyu Lee^{1,2}, Jun Yop An^{1,2}, Kyoung Ryoung Park^{1,2}, Jung Youn Kang^{1,2}, Hye-Eun Song¹, Jia Jia Lim^{1,2}, Dong Gun Kim^{1,2}, Min Joon Kim^{1,2}, Inju Park¹, Chunghee Cho¹, Shin-Ichi Fukuoka³ and Soo Hyun Eom^{1,2*} ^{1,2}Gwangju Institute of Science & Technology, Republic of Korea, ²Aoyama Gakuin University, Japan (ASCA130074)
- P-038 **STRUCTURAL AND FUNCTIONAL ANALYSES OF A BETAINE BIOSYNTHESIS ENZYME: SARCOSINE DIMETHYLGLYCINE METHYLTRANSFERASE FROM *METHANOHALOPHILUS PORTUCALENSIS***
Te-Sheng Lin¹, Shu-Jung Lai², Yang-Ting Chen³, Yuan-Chung Cheng³, Mei-Chin Lai², and Nei-Li Chan^{1,2} ^{1,2}National Taiwan University, Taiwan(ASCA130078)
- P-039 **STRUCTURAL STUDIES OF HUMAN ANTIZYME INHIBITOR IN COMPLEX WITH ANTIZYME**
Shin-Fu Chen¹, Hsiang-Yi Wu¹, Pei-Ying Lee^{1,2}, Yu-Jen Yu¹, Ju-Yi Hsieh³, Hui-Chih Hung^{3,4} & Nei-Li Chan^{1,2} ¹National Taiwan University, Taiwan, ^{2,3,4}National Chung Hsing University, Taichung, Taiwan (ASCA130079)
- P-040 **DESIGN AND SYNTHESIS OF PHOTO REACTIVE METAL COMPLEXES FOR SOLID STATE [2+2] PHOTO CYCLOADDITION**
Zhaozhi Bai, Raghavender Medishetty and Jagadese J. Vittal¹ ¹National University of Singapore, Singapore (ASCA130080)
- P-041 **CRYSTAL STRUCTURE OF THE PPAR δ LIGAND BINDING DOMAIN IN COMPLEX WITH PROSTANOIDS**
Chih-Chiang Chang¹ and Nei-Li Chan¹ ¹National Taiwan University, Taiwan. (ASCA130081)
- P-042 **STRUCTURAL STUDIES OF HUMAN TOPOISOMERASE II α IN COMPLEXES WITH DNA AND ANTICANCER DRUGS**
Ying-Ren Wang¹, Nei-Li Chan^{1,2} ¹National Taiwan University, Taiwan, ²National Chung Hsing University, Taiwan. (ASCA130082)
- P-043 **MECHANISM OF MIMICRY IN HOST INNATE IMMUNE EVASION BY THE TIR DOMAIN-CONTAINING PROTEIN FROM BRUCELLA (TCPB)**
Mohammed Alaidarous^{a,b,c}, Thomas Ve^{a,b,c}, Lachlan Casey^{a,b,c}, Ashley Mansell^d, Mohammad O. Ullah^{a,b,c}, Mark A. Schembri^{a,c}, Eugene Valkov^e, Matthew J. Sweet^{b,c}, Bostjan Kobe^{a,b,c}
^{a,b,c}University of Queensland, Brisbane, Australia, ^dMonash University, Australia, ^eMRC Laboratory of Molecular Biology, United Kingdom. (ASCA130084)
- P-044 **DYNAMICAL CHANGES OF CRYSTALLINE-STATE PHOTOCHROMIC REACTIVITY OF SALICYLIDENEANILINE DERIVATIVES INDUCED BY CRYSTALLINE-STATE - PHOTOISOMERIZATION OF COBALOXIME COMPLEXES**
Yuta Yamazaki, Hidehiro Uekusa and Akiko Sekine *Tokyo Institute of Technology, Japan.* (ASCA130085)
- P-045 **SINGLE-CRYSTAL-TO-SINGLE-CRYSTAL MULTI-STEP DEHYDRATION MECHANISM OF AZITHROMYCIN DIHYDRATE CRYSTAL**
Shiho Oshima, Akiko Sekine and Hidehiro Uekusa *Tokyo Institute of Technology, Japan* (ASCA130086)

- P-046 **IMPROVING FRAGMENT QUALITY FOR DE NOVO STRUCTURE PREDICTION**
Rojan Shrestha and Kam Y. J. Zhang *RIKEN, Japan and The University of Tokyo, Japan* (ASCA130089)
- P-047 **STRUCTURAL BASIS OF THE ANTIZYME-MEDIATED INHIBITION AND DEGRADATION OF ORNITHINE DECARBOXYLASE**
Hsiang-Yi Wu¹, Shiou-Ru Tzeng¹, Shin-Fu Chen, Ju-Yi Hsieh², Fang Chou¹, Wan-Ting Lin¹, Pei-Ying Lee¹, Chieh-Liang Lin¹, Li-Ying Lin¹, Te-Sheng Lin¹, Yu-Jen Yu¹, Guang-Yaw Liu³, Hui-Chih Hung², Nei-Li Chan^{1,2} *National Taiwan University, Taiwan,*²*National Chung Hsing University, Taiwan,*³*Chung Shan Medical University, Taiwan.* (ASCA130093)
- P-048 **A TRIAL NEUTRON DIFFRACTION MEASUREMENT FOR SMALL QUANTITIES SAMPLES AND LARGE NEUTRON ABSORPTION SAMPLES AT IMATERIA, NEUTRON POWDER DIFFRACTOMETER IN J-PARC. – THE CURRENT STATUS OF IMATERIA –**
Toru Ishigaki¹, Akinori Hoshikawa¹, Masao Yonemura², Takashi Kamiyama², Yukio Morii³, Makoto Hayashi^{3,1} *Ibaraki University, JAPAN,*² *KEK, JAPAN,*³ *Ibaraki prefecture, JAPAN.* (ASCA130094)
- P-049 **CRYSTAL STRUCTURE ANALYSIS OF BACLOFEN CO-CRYSTAL**
Kota Teraoka¹, Akiko Sekine² and Hidehiro Uekusa^{2,1,2} *Tokyo Institute of Technology, Japan* (ASCA130095)
- P-050 **HYDRATION AND DEHYDRATION TRANSFORMATION MECHANISM OF CEPHALOSPORINS**
Ryosuke Toyoshima, Akiko Sekine and Hidehiro Uekusa *Tokyo Institute of Technology* (ASCA130096)
- P-051 **STRUCTURAL STUDIES OF 1,2,4,5-TETRAZINE SILVER(I) COMPLEXES**
Philjae Kang, Han Sol Oh and Moon Gun Choi *Yonsei University, Korea* (ASCA130100)
- P-052 **INTERPRETATION OF CRYSTAL STRUCTURE IN TWO SERIES OF BISAZOMETHINE DYES**
Takumi Jindo¹, Byung-Soon Kim¹, Young-A Son², Sung-Hoon Kim^{3,4}, and Shinya Matsumoto¹ *Yokohama National University, Japan.*² *Chungnam National University, Korea.*³ *Kyungpook National University, Korea.*⁴ *Zhanjiang National University, PR China.* (ASCA130103)
- P-053 **GATE ADSORPTION OF CO₂ ON A AMIDE-CONTAINING MANGANESE(II) ORGANIC FRAMEWORK**
Cheng-Hua Lee,¹ Hung-Yu Huang,¹ Sheng-Han Lo,¹ Gene-Hsiang Lee,² Shie-Ming Peng,^{1,2} Ito Chao,¹ and Kuang-Lieh Lu^{*1,1} *Academia Sinica, Taiwan.*² *National Taiwan University, Taiwan.* (ASCA130104)
- P-054 **AGGREGATION INDUCED EMISSION ENHANCEMENT IN ALKOXY-BRIDGED BINUCLEAR RHENIUM(I) COMPLEXES**
Zong-Zhan Lu,¹ Veerasamy Sathish,² Arumugam Ramdass,² Murugesan Velayudham,¹ Pounraj Thanasekaran,¹ Seenivasan Rajagopal² and Kuang-Lieh Lu^{1,1} *Academia Sinica, Taiwan,*² *Madurai Kamaraj University, India.* (ASCA130105)
- P-055 **MANIPULATING THE HIERARCHICAL STRUCTURES OF SUPRAMOLECULAR DENDRON-JACKETED BLOCK COPOLYMERS VIA TUNEABLE LIQUID CRYSTALLINE ORDERING**
Wei-Tsung Chuang, Yen-Chih Huang, Chun-Jen Su, U-Ser Jeng, and Hwo-Shuenn Sheu *National Synchrotron Radiation Research Center, Taiwan* (ASCA130106)
- P-056 **HYDRATION AND DEHYDRATION TRANSFORMATION MECHANISM**
Ryosuke Toyoshima, Akiko Sekin and Hidehiro Uekusa *Tokyo Institute of Technology, Japan* (ASCA130108)

- P-057 **REAL-TIME INVESTIGATION OF THE STRUCTURAL PHASE DELAY OF ELECTRODES IN A LITHIUM-ION BATTERY CONTAINING V-ADDED LIFEPO₄ CATHODE USING IN-SITU AND SYNCHROTRON RADIATION X-RAY POWDER DIFFRACTION**
Chih-Wei Hu^{1,2}, Ching-Yu Chiang², Hui-Chia Su², Bor-Yuan Shew² and Chih-Hao Lee^{1,2,*} ¹National Tsing Hua University, Taiwan, ²National Synchrotron Radiation Research Center, Taiwan. (ASCA130109)
- P-058 **ANALYSIS OF RADIONUCLIDES IN SEDIMENTS CONTAINING PETROLEUM WASTES GENERATED FROM OIL REFINERY INDUSTRIES OF EASTERN REFINERY INDUSTRIAL AREA, CHITTAGONG, BANGLADESH**
M. Akram^{1*}, M.J. Abedin¹, S.C. Nath¹, M.H.A. Miah¹, M. Kamal², and S. I. Bhuiyan^{2,1} ¹Chittagong College, Chittagong, ²Bangladesh Atomic Energy Commission, Chittagong (ASCA130110)
- P-059 **THE STRUCTURE AND SODIUM INSERTION CHEMISTRY OF FE[FE(CN)₆] AND FE[CO(CN)₆] FOR CATHODE MATERIALS FOR SODIUM-ION BATTERIES.**
Thomas Godfrey¹ and Siegbert Schmid¹ ¹The University of Sydney, Sydney, Australia. (ASCA130111)
- P-060 **CRYSTAL STRUCTURES OF COBALOXIME COMPLEXES WITH PHOTOCHROMIC 4-(2,4-DINITROBENZYL)PYRIDINE AS AXIAL BASE LIGANDS**
Tsubasa Kawano, Yuta Yamazaki, Hidehiro Uekusa and Akiko Sekine *Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo, 152-8551, Japan.* (ASCA130113)
- P-061 **CRYSTAL STRUCTURE OF A MONO- AND DIACYLGLYCEROL LIPASE FROM *MALASSEZIA GLOBOSA* REVEALS A NOVEL LID CONFORMATION AND INSIGHTS INTO THE SUBSTRATE SPECIFICITY**
Tingting Xu¹, Lu Liu², ShuLin Hou¹, Jingxin Xu¹, Bo Yang², Yonghua Wang³ and Jinsong Liu^{1,1} *Guangzhou Institutes of Biomedicine and Health, People's Republic of China,* ^{2,3} *South China University of Technology, People's Republic of China* (ASCA130115)
- P-062 **TRANSFORMATION BETWEEN THE MONOMERIC AND DIMERIC STATES OF AL-CPI**
Guoqiang Mei^{1,2}, Sanling Liu^{1,3}, Minze Sun¹, Jinsong Liu^{1,2*}
¹*Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, China,*
²*University of Science and Technology of China,* ³*Hefei Institutes of Physical Science, Chinese Academic of Science* (ASCA130115)
- P-063 **STRUCTURAL STUDY OF GLYCOSYLTRANSFERASE FROM A MARINE *STREPTOMYCES* SPECIES**
Xu Tingting¹, Liu Qiang¹, Gong Liping¹, Liu Jinsong¹ ¹*Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, China* (ASCA130115)
- P-064 **2D-NET AND CHANNEL TYPE HOST FRAMEWORK USING H-SHAPED MOLECULE WITH CATECHOL GROUPS**
Kiyoshi Ota, Akiko Sekine and Hidehiro Uekusa *Tokyo Institute of Technology, Ookayama, Japan.* (ASCA130120)
- P-065 **SINGLE CRYSTAL STRUCTURAL CHARACTERIZATION OF SYNTHESIZED ETHYL 4-((DIETHYLCARBAMOTHIOYLTHIO)METHYL)-2-OXO-2H-CHROMEN-7-YLCARBAMATE WITH PHARMACOLOGICAL INTEREST**
MaheshKumar K,¹ Kotresh O¹ and Devarajegowda H C^{2,1} ¹*Karnatak Univ., India,* and ²*University of Mysore, India*(ASCA130124)

- P-066 **CRYSTAL STRUCTURE OF ASHPAL, A USEFUL ALDORASE FOR THE STEREOSELECTIVE SYNTHESIS OF HYDROXY AMINO ACIDS, REVEALS ITS MOLECULAR MECHANISM OF SUBSTRATE SPECIFICITY**
Linjun Guo¹, Masahiko Okai¹, Tomoko Mase¹, Fabiana Lica Imai¹, Koji Nagata¹, Makoto Hibi², Jun Ogawa², Takuya Miyakawa¹, Masaru Tanokura¹ ¹*The University of Tokyo, Japan*, ²*Kyoto University, Japan* (ASCA130129)
- P-067 **MOLECULAR MECHANISM OF STRIGOLACTONE PERCEPTION BY DWARF14**
Takuya Miyakawa¹, You-Lin Xue¹, Hidemitsu Nakamura¹, Feng Hou¹, Hui-Min Qin¹, Kosuke Fukui¹, Xuan Shi¹, Emi Ito², Shinsaku Ito¹, Seung-Hyun Park¹, Yumiko Miyauchi¹, Atsuko Asano¹, Naoya Totsuka¹, Takashi Ueda², Tadao Asami^{1,3} and Masaru Tanokura^{1,2} *The University of Tokyo, Japan*, ³*JST, CREST, Japan* (ASCA130130)
- P-068 **PROTEIN DATA BANK JAPAN (PDBJ): MAINTAINING STRUCTURAL DATA ARCHIVE AND INTEGRATION OF STRUCTURE DATA WITH OTHER LIFE SCIENCES DATA RESOURCES BY SEMANTIC WEB TECHNOLOGIES**
Haruki Nakamura¹, Akira R. Kinjo¹, Hirofumi Suzuki¹, Reiko Yamashita¹, Yasuyo Ikegawa¹, Takahiro Kudou¹, Gert-Jan Bekker¹, Reiko Igarashi¹, Yumiko Kengaku¹, Hasumi Cho¹, Junko Sato¹, Nahoko Haruki¹, Daron M. Standley², Atsushi Nakagawa¹ ¹*Osaka University, Japan*. ²*Osaka University, Japan*(ASCA130132)
- P-069 **SERIAL FEMTOSECOND CRYSTALLOGRAPHY USING XFEL AT SACLA**
Eiichi Mizohata¹, Mamoru Suzuki², Eriko Nango³, Rie Tanaka³, Jaehyun Park³, Changyong Song³, Takaki Hatsui³, Makina Yabashi³, Kensuke Tono⁴, Yasumasa Joti⁴, Takashi Kameshima⁴, Yoshitsugu Morita¹, Koji Oohora¹, Takashi Hayashi¹, Keisuke Kakinouchi⁵, Hanako Ishida⁵, Mika Hirose⁵, Shigeru Sugiyama⁵, Michio Murata⁵, Leonard M.G. Chavas⁶, Francois-Xavier Gallat⁶, Naohiro Matsugaki⁶, Fumiaki Yumoto⁶, Yu Kitago², Junichi Takagi², Tsuyoshi Inoue¹, So Iwata³ ¹*Osaka University, Japan* ² *Osaka University, Japan* ³*RIKEN SPring-8 Center, Hyogo, Japan* ⁴*Japan Synchrotron Radiation Research Institute, Hyogo, Japan* ⁵*Osaka University, Osaka, Japan* ⁶*Photon Factory, High Energy Accelerator Research Organization, IMSS, Ibaraki, Japan* (ASCA130133)
- P-070 **SYNTHESIS, STRUCTURE CORRELATION AND REDUCING POWER ASSAY OF 4-CHLOROPHENACYL ESTERS**
Chidan Kumar, C. S¹, Ooi Chin Wei¹, Quah Ching Kheng¹ and Fun Hoong Kun^{1,2*}
¹*Universiti Sains Malaysia, Malaysia*. ²*King Saud University, Saudi Arabia*. (ASCA130134)
- P-071 **DISCRETE SUPRAMOLECULAR COORDINATION COMPLEXES AND INFINITE COORDINATION POLYMERS OF ZINC(II) AND CADMIUM(II) IONS WITH UNSYMMETRICAL SEMIRIGID PYRIDINECARBOXYLATE LIGANDS**
 Pin-Ting Yuan, Cheng-Chu Hsiao, Jing-Yun Wu , *National Chi Nan University, Taiwan*. (ASCA130140)
- P-072 **CRYSTAL STRUCTURE OF PROTEIN L-ISOASPARTYL-O-METHYLTRANSFERASE FROM *VIBRIO CHOLERAE* BOUND TO ITS COFACTOR**
Tanaya Chatterjee¹, Debadrita Mukherjee², Mousumi Banerjee³, Barun Chatterjee⁴ and Pinak Chakrabarti^{1,2} ¹² *Bose Institute, Kolkata, India* ³ *West Bengal University of Technology, Kolkata India* ⁴ *Bose Institute, Kolkata, India*(ASCA130151)

- P-073 **STRUCTURAL INSIGHT INTO HUMAN CK2 COMPLEXED WITH A FLAVONOID INHIBITOR**
 Takayoshi Kinoshita¹, Yusuke Sekiguchi¹, Tetsuko Nakaniwa^{1,2}, Yuri Sogabe¹, Mai Tanaka³, Kazuko Shimada³, Shinya Nakamura³ and Isao Nakanishi³, ¹*Osaka Prefecture University, Japan*
²*Osaka University, Osaka, Japan* ³*Kinki University, Osaka, Japan.* (ASCA130154)
- P-074 **CRYSTAL STRUCTURE OF HUMAN LEUKOCYTE CELL-DERIVED CHEMOTAXIN 2 (LECT2)**
 Hai Zheng¹, Takuya Miyakawa¹, Yoriko Sawano^{1,2}, Satoshi Yamagoe³ and Masaru Tanokura¹,
¹*The University of Tokyo, Japan* ²*Tokyo Medical and Dental University, Chiba, Japan* ³*National Institute of Infectious Diseases, Tokyo, Japan*(ASCA130158)
- P-075 **CRYSTAL STRUCTURE OF THE M14R MUTANT OF ORYCTIN, A KAZAL-TYPE SERINE PROTEASE INHIBITOR, IN COMPLEX WITH TRYPSIN**
 Desheng Liu¹, Tatsuya Suzuki¹, Takeshi Kawai¹, Shoichiro Horita¹, Jun Ishibashi², Minoru Yamakawa², Koji Nagata¹ and Masaru Tanokura¹¹*The University of Tokyo, Tokyo, Japan.* ²*National Institute of Agrobiological Sciences (NIAS), Ibaraki, Japan.* (ASCA130165)
- P-076 **BUNYAMWERA VIRUS POSSESSES A DISTINCT NUCLEOCAPSID PROTEIN TO FACILITATE GENOME ENCAPSIDATION**
 Li B., Wang Q., Pan X., Fernández de Castro I., Sun Y., Guo Y., Tao X., Risco C., Sui S.F. and Lou Z.* (ASCA130166)
- P-077 **PROTEIN SINGLE CRYSTAL GROWTH AND STATUS OF THE NEUTRON IMAGE PLATE DIFFRACTOMETER (BIO-C) AT HANARO**
 Shin Ae Kim, Sang-Jin Cho, Elena Magay and Sun Young Ryu, *Korea Atomic Energy Research Institute, Daejeon, Korea*(ASCA130167)
- P-078 **SITE PREFERENCE AND MAGNETIC STRUCTURE OF M-TYPE BATIMNFE₁₀O₁₉ FERRITE DETERMINED BY X-RAY AND NEUTRON DIFFRACTION METHODS**
 Syun-ichi Takayasu¹, Jumpei Yoshizaki¹, Maki Okube¹, Takeshi Toyoda², Naoki Igawa³ and Satoshi Sasaki¹, ¹*Tokyo Institute of Technology, Kanagawa, Japan.* ²*Industrial Research Institute of Ishikawa, Ishikawa, Japan.* ³*Japan Atomic Energy Agency, Ibaraki, Japan*(ASCA130171)
- P-079 **ENERGY-DEPENDENT STUDY OF RESONANT X-RAY MAGNETIC SCATTERING TO SPIN-RESOLVE THE FERRIMAGNETIC STRUCTURE OF FE₃O₄**
 Maki Okube¹ and Satoshi Sasaki¹, ¹*Tokyo Institute of Technology, Kanagawa, Japan.* (ASCA130172)
- P-080 **ENTEROVIRUS 71 VPG URIDYLATION USES A TWO-MOLECULAR MECHANISM OF 3D POLYMERASE**
 Yuna Sun, *Chinese Academy of Science, Beijing, China*(ASCA130173)
- P-081 **PARABOLIC MIRROR FOCUSING FOR STRUCTURE ANALYSES WITH RESONANT X-RAY MAGNETIC SCATTERING**
 Satoshi Sasaki¹, Maki Okube¹ and Go Fujinawa², ¹*Tokyo Institute of Technology, Kanagawa, Japan.* ²*Rigaku Corporation, Tokyo, Japan.* (ASCA130177)
- P-082 **HALOGEN ENRICHED ANTHRAPHYRAZOLONE DERIVATIVES FOR THERAPEUTIC INHIBITION OF C-JNK IN REGULATING SEPTIC SHOCK INDUCED INFLAMMATORY DISORDERS**
 Durga Prasad Karothu and Tayur N. Guru Row, *Indian Institute of Science, Bangalore, India.* (ASCA130178)

- P-083 **CRYSTAL STRUCTURES OF TWO CAS5D ENDORIBONUCLEASES IN CRISPR-MEDIATED BACTERIAL IMMUNE SYSTEM**
Donghyun Ka¹, Yoon Koo¹, Nayoung Suh^{3,4} and Euiyoung Bae^{1,2}, ¹*Seoul National University, Korea* ²*Seoul National University, Seoul, Korea* ³*Asan Medical Center, Seou, Korea* ⁴*University of Ulsan College of Medicine, Seoul, Korea (ASCA130184)*
- P-084 **IMAGING OF MICROCRYSTALS IN MESOPHASE CRYSTALLIZATION TRIALS WITH NOVEL FEATURES OF MINSTREL SYSTEM**
Pius Padayatti¹, Max Petersen¹, Andrew Provost¹, Kevin Roberson¹, and Jian Xu¹, ¹*Rigaku Automation, USA. (ASCA130194)*
- P-085 **CRYSTAL STRUCTURE OF DEHYDROQUINATE DEHYDRATASE FROM ACINETOBACTER BAUMANNII AT 2.5Å RESOLUTION**
Naseer Iqbal, Avinash Singh, Nagender Singh, Mau Sinha, Punit Kaur, Sujata Sharma and T. P. Singh *India Institute of Medical Sciences, New Delhi, India (ASCA130195)*
- P-086 **PRESSURE-INDUCED SPIN TRANSITION STUDY ON [Fe^{II}(H₂O)₂(PTZ)₂] COMPLEX : CHARACTERIZATION BY POWDER X-RAY DIFFRACTION AND X-RAY ABSORPTION SPECTROSCOPY**
I-Jui Hsu¹, Jia-Ze Wang¹, Chih-Ming Lin², Jyh-Fu Lee³, Jey-Jau Lee³, and Yu-Chun Chuang³, ¹*National Taipei University of Technology, Taipei, Taiwan* ²*National Hsinchu University of Education, Hsinch, Taiwan* ³*National Synchrotron Radiation Research Center, Hsinchu, Taiwan(ASCA130196)*
- P-087 **ISOSTRUCTURALITY OF A FEW METAL(II) ISONICOTINATE TETRAHYDRATES**
Birinchi K. Das¹, Sanchay J. Bora², Monideepa Chakraborty³, Sharanan Nath¹, and Ruhul A. Bepari¹, ¹*Gauhati University, India* ²*Pandu College, Guwahati, India* ³*Assam Engineering College, Guwahati, India (ASCA130197)*
- P-088 **FIRST STRUCTURAL EVIDENCE OF SEQUESTRATION OF MRNA CAP STRUCTURES BY TYPE 1 RIBOSOME INACTIVATING PROTEIN FROM MOMORDICA BALSAMINA**
Shavaït Yamini, Gajraj Singh Kushwaha, Mukesh Kumar, Mau Sinha, Punit Kaur, Sujata Sharma, and Tej P. Singh, *All India Institute of Medical Sciences, New Delhi, India (ASCA130199)*
- P-089 **LOW MULTIPLICITY SULFUR SAD PHASING IN THE HOME LAB**
Thanh-Ha Nguyen¹, Séverine Freisz¹, Juergen Graf², Matthew Benning³ and Vernon Smith¹
¹*Bruker AXS GmbH, Karlsruhe, Germany* ²*Incoattec GmbH, Germany* ³*Bruker AXS Inc., Madison, USA (ASCA130201)*
- P-090 **SYNTHESIS, X-RAY CRYSTAL STRUCTURES AND SPECTROSCOPIC PROPERTIES OF N-SUBSTITUTED CASSIARIN A CHLORIDE**
Sakchai Laksee¹, Songchan Puthong², Tanapat Palaga³, Thapong Theerawattananond¹ and Nongnuj Muangsin^{1*} ¹*Chulalongkorn University, Bangkok, Thailand.* ²*Chulalongkorn University, Bangkok, Thailand.* ³*Chulalongkorn University, Bangkok, Thailand (ASCA130205)*
- P-091 **SYNTHESIS, CRYSTAL STRUCTURE, CYTOTOXICITY AND INTERACTION WITH DNA OF CASSIARIN A DERIVATIVE**
Urarika Luesakul¹, Thapong Theerawattananond¹, Songchan Puthong², Thanapat palaga³ Nattaya Ngamrojanavanich¹, Kuakarun Krusong⁴ and Nongnuj Muangsin^{1*}, ¹*Chulalongkorn University, Bangkok, Thailand.* ²*Chulalongkorn University, Bangkok, Thailand.* ³*Chulalongkorn University, Bangkok, Thailand.* ⁴*Chulalongkorn University, Bangkok, Thailand. (ASCA130206)*

- P-092 **REVERSIBLE NEGATIVE THERMAL EXPANSIVITY OF FRUCTOSE THIN FILMS EMERGING FROM ANISOTROPIC GEOMETRY**
Shogo Tsujiuchi, Atsushi Nishio, Kazuki Nishimori, Shunsui Matsuura, Kummetha Raghunatha Reddy, and Isao Takahashi, *Kwansei Gakuin University, Sanda, Japan* (ASCA130208)
- P-093 **IYCR2014: A PROGRAMME FOR DISSEMINATION, TRAINING AND COOPERATION**
Michele Zema¹, Elena Boldyreva¹, Hanna Dabkowska¹, Michael Dacombe¹, Wulf Depmeier¹, Gautam R. Desiraju¹, J. Mitchell Guss¹, Marvin Hackert¹, Samar Hasnain¹, Sine Larsen¹, Claude Lecomte¹, Brian McMahon¹, J. Manuel Perez-Mato¹, Andrea Sharpe¹, Peter Strickland¹ and Luc Van Meervelt¹, ¹*IUCr, International Union of Crystallography, Chester, UK* (ASCA130209)
- P-094 **STRUCTURE, FUNCTION, AND INHIBITORS OF THE ACID-GATED *HELICOBACTER PYLORI* UREA CHANNEL, AN ESSENTIAL COMPONENT FOR ACID SURVIVAL**
Hartmut Luecke¹ ¹Center for Biomembrane Systems, University of California, Irvine, USA.
- P-095 **N-TERMINAL DOMAIN OF BOMBYX MORI FIBROIN MEDIATE THE ASSEMBLY OF SILK IN RESPONSE TO PH DECREASE**
Wei-Fang Li^a, Yong-Xing He^a, Nan-Nan Zhang^a and Cong-Zhao Zhou^a
^a *University of Science and Technology of China, Hefei Anhui, China* (ASCA130212)
- P-096 **STRUCTURAL AND BIOCHEMICAL ANALYSES OF ANABAENA HETR REVEAL INSIGHTS INTO THE CYANOBACTERIAL HETEROCYST DEVELOPMENT AND PATTERN FORMATION**
Cong-Zhao Zhou^a, Hai-Xi Hu^a, Yong-Liang Jiang^a, Meng-Xi Zhao^a and Cheng-Cai Zhang^b
^a *University of Science and Technology of China, Hefei Anhui, China* ^b *Aix Marseille Université and Laboratoire de Chimie Bactérienne, Marseille, France* (ASCA130213)
- P-097 **STRUCTURAL INSIGHTS INTO THE SUBSTRATE SPECIFICITY OF A 6-PHOSPHO- β -GLUCOSIDASE BGLA-2 FROM STREPTOCOCCUS PNEUMONIAE TIGR4**
Yuxing Chen^a, Wei-Li Yu^a, Yong-Liang Jiang^a, Andreas Pikiš^b, Wang Cheng^a, Xiao-Hui Bai^a, Yan-Min Ren, John Thompson^b, Cong-Zhao Zhou^a ^a *University of Science and Technology of China, Hefei Anhui, China* ^b *National Institutes of Health, Bethesda, Maryland* (ASCA130214)
- P-098 **NOVEL OUT-OF-EQUILIBRIUM DYNAMICS OBSERVED IN GLASSY POLYSTYRENE ULTRATHIN FILMS WITH THICKNESSES THINNER THAN THE RADIUS OF GYRATION**
Rena Onitsuka¹, Kohei Ishimoto¹, Naotaka Torimoto¹, Chihaya Nishiwaki¹, Chunming Yang², and Isao Takahashi¹ ^a *Kwansei Gakuin University, Sanda, Japan* ^b *Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai, China* (ASCA130215)
- P-099 **MOLECULAR HYDRATION OF GUANOSINE REVEALED BY SURFACE-SENSITIVE X-RAY SCATTERINGS WITH AMORPHOUS ULTRATHIN FILMS DEPOSITED ON HYDROPHILIC SUBSTRATES**
Eiji Konda, Yoshitaka Ono, Yusuke Shima and Isao Takahashi *Kwansei Gakuin University, Sanda, Japan* (ASCA130216)
- P-100 **INTRODUCTION OF NATIONAL CENTER FOR PROTEIN SCIENCE SHANGHAI BEAMLINES AT SHANGHAI SYNCHROTRON RADIATION FACILITY**
Wenming Qin¹, Jianhua He², Rongguang Zhang¹ ¹ *Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences* ² *Shanghai Institute of Applied Physics, Chinese Academy of Sciences* (ASCA130218)

- P-101 **STRUCTURAL BASED OF HUMAN SIRT6 NOVEL FUNCTION ON REGULATION OF TNFA SECRETION**
 Yi Wang^{1,#}, Hong Jiang^{2,#}, Saba Khan^{2,#}, Guillaume Charron³, Raul Mostoslavsky⁴, Howard C. Hang³, and Hening Lin^{2,*}, Quan Hao^{1,*1} *University of Hong Kong, Hong Kong, China*
²*Cornell University, Ithaca, NY 14853, USA* ³*The Rockefeller University, New York, NY.*
⁴*Harvard Medical School, Boston, MA (ASCA130220)*
- P-102 **CRYSTALLIZATION AND PRELIMINARY STRUCTURE ANALYSIS OF AN ORGANIC SOLVENT-TOLERANT ELASTASE**
 Mohd Shukuri Mohamad Ali^{1,2}, Zatty Syamimi @ Adura Mat Said^{1,2}, Raja Noor Zaliha Raja Abd Rahman^{1,3}, Adam Leow Thean Chor^{1,4}, Mahiran Basri^{1,5} and Abu Bakar Salleh^{1,2,1} *Universiti Putra Malaysia, Serdang UPM 43400, Selangor, Malaysia;* ²*Universiti Putra Malaysia, Serdang UPM 43400, Selangor, Malaysia* ³*Universiti Putra Malaysia, Serdang UPM 43400, Selangor, Malaysia* ⁴*Universiti Putra Malaysia, Serdang UPM 43400, Selangor, Malaysia* ⁵*Universiti Putra Malaysia, Serdang 43400, Selangor, Malaysia(ASCA130221)*
- P-103 **FSEARCH: MOLECULAR REPLACEMENT FOR NMR MODELS**
 Weizhe ZHANG¹, Quan HAO^{1,1} *University of Hong Kong, Hong Kong(ASCA130226)*
- P-104 **INTERACTIONS BETWEEN MICROTUBULE- AND ACTIN- BASED TRANSPORT MOTORS**
 Wen Zhang¹, Mingjie Zhang³, Jiandong Huang², Quan Hao¹
¹*Department of Physiology,* ²*University of Hong Kong, Hong Kong SAR, China,* ³*Hong Kong University of Science and Technology, Hong Kong SAR, China (ASCA130227)*
- P-105 **CRYSTAL STRUCTURE OF PHOTOSYSTEM I FROM SYNECHOCYSTIS SP. PCC6803 AT 5.1 Å RESOLUTION**
 Hisako Kubota-Kawai¹, Hajime Wada² Genji Kurisu¹ ¹*Osaka University, Osaka, Japan*
²*The University of Tokyo, Tokyo, Japan (ASCA130228)*
- P-106 **THE STRUCTURAL STUDIES OF HUMAN CD38 IN COMPLEX WITH DIFFERENT SUBSTRATES.**
 Menglong Hu¹, Hongmin Zhang^{1,*} and Quan Hao^{1,*1} *the University of Hong Kong, Hong Kong SAR, China. (ASCA130233)*
- P-107 **A COURSE IN MOLECULAR EVOLUTION**
 William L. Duax *State University of New York at Buffalo, New York, USA(ASCA130235)*
- P-108 **BIOCHEMICAL CHARACTERISATION OF INTRADIOL DIOXYGENASES FROM BURKHOLDERIA XENOVORANS LB400**
 Muthu M, Stanbra L & Lloyd-Jones G. *Biotransformation, SCION Research, New Zealand. (ASCA130237)*
- P-109 **PECULIARITIES OF STRUCTURE FORMATION IN GENETICALLY RELATED CRYSTAL HYDRATES OF COMPOSITIONS MGZRF6·2H₂O, LI₂MG(ZRF6)2·4H₂O, AND (NH₄)₂MG(ZRF6)2·2H₂O**
 Kseniya A. Gayvoronskaya, Andrey V. Gerasimenko, Nina A. Didenko, and Valery Ya. Kavun *Russian Academy of Sciences, Vladivostok, Russia(ASCA130238)*
- P-110 **MOLECULAR BASIS OF THE GENERAL BASE CATALYSIS OF AN α/β -HYDROLASE CATALYTIC TRIAD**
 Yueru Sun, Shuhui Yin, Yitao Feng, and Zhihong Guo* *The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong (ASCA130239)*

- P-111 **DISCOVERY AND CHARACTERIZATION OF AN L-METHIONINE γ -LYASE INVOLVED IN CALICHEAMICIN BIOSYNTHESIS**
Haigang Song, Ri Xu, and Zhihong Guo* *The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong(ASCA130239)*
- P-112 **STRUCTURE OF THE BAMLET ANTI-CANCER COMPLEX BY SMALL ANGLE SCATTERING**
 Emma M. Rath^{1,2}, Anthony P. Duff², Robert B. Knott², W. Bret Church¹ *Faculty of Pharmacy, ¹The University of Sydney, Australia ²Australian Nuclear Science and Technology Organisation, Lucas Heights, Australia (ASCA130242)*
- P-113 **RESOLUTION, ENANTIOSTABILITY AND CIRCULARLY POLARIZED LUMINESCENCE (CPL) OF A CHIRAL LANTHANIDE TRIS-CHELATE ANION [LN(2,6-PDA)₃]³⁻**
Michael W-H. Ma¹, Chun Lung Choi¹, Herman H-Y. Sung¹, Kam Sing Wong², Ian D. Williams¹
¹*Department of Chemistry, The Hong Kong University of Science and Technology, Hong Kong*
²*Department of Physics, The Hong Kong University of Science and Technology, Hong Kong (ASCA130244)*
- P-114 **CHIRAL RESOLUTION OF AMINES AND DIAMINES USING BORON(BIS-MANDELATE) ANIONS**
Lawrence W-Y. Wong, Herman H-Y. Sung, Ian D. Williams *Hong Kong University of Science and Technology Clear Water Bay, Hong Kong (ASCA130245)*
- P-115 **CHIRAL RESOLUTION OF AMINES USING BORON(BIS-N,N'-DIPHENYLTRAMIDE) ANIONS**
Gemma S-S. Tam, Herman H-Y. Sung, Ian D. Williams *Hong Kong University of Science and Technology, Hong Kong (ASCA130246)*
- P-116 **PROBING CRYSTAL STRUCTURE BY SINGLE POINT MOLECULAR PERTURBATION IN A FAMILY OF 11-AZAARTEMISININS**
Cathy K. -W. Cheu¹, Herman H. Y. Sung¹, Richard K. Haynes², Ian D. Williams^{*1 1} *Hong Kong University of Science and Technology, Hong Kong ²Centre of Excellence for Pharmaceutical Sciences, North-West University, South Africa (ASCA130247)*
- P-117 **2D MIXED METAL IMIDAZOLATE-BENZIMIDAZOLATE POLYMERS: TOPOLOGICAL AND CONFORMATIONAL ISOMERS**
Yan Zhou, Alex S. M. Kan, Fion T. Y. Yeong, Herman H. Y. Sung and Ian D. Williams *Hong Kong University of Science and Technology, Hong Kong (ASCA130249)*
- P-118 **CRYSTAL STRUCTURE OF TREHALOSE SYNTHASE FROM DEINOCOCCUS RADIODURANS REVEALS AN ACTIVE CONFORMATION**
 Yu-Chiao Hsieh, Yung-Lin Wang, Yi-Ting Lin, Guan-Chun Lee, Shwu-Huey Liaw
Yang Ming University, Taiwan(ASCA130252)
- P-119 **'KNOT' AND 'CAGE' – TWO NEW DIMENSIONS IN PROTEIN STRUCTURES**
 Seema Nath¹, Ramanuj Banerjee¹, Ranjan Sen² and Udayaditya Sen^{1,1} *Saha Institute of Nuclear Physics, India ² Center for DNA Fingerprinting and Diagnostics, Tuljaguda complex, India(ASCA130253)*
- P-120 **SYNTHESIS, STRUCTURES, AND LUMINESCENCE PROPERTIES OF CADMIUM(II) THIOCYANATE COMPLEXES OF 4-HALO-N-(2'-PYRIDYLMETHYLENE)ANILINE**
Chatphorn Theppitak, Sujirat Boonlue, Nimit Sriprang, and Kittipong Chainok*
Naresuan University, Mueang, Thailand(ASCA130255)

- P-121 **SOLVOTHERMAL SYNTHESIS AND PROPERTIES OF NEW LANTHANIDE-OXALATE FRAMEWORKS: $K[PR(C_2O_4)_2]$, $[LIPR(C_2O_4)] \cdot 2H_2O$, AND $[LN(C_2O_4)1.5H_2O0.5] \cdot 1.5H_2O$, LN = PR, ND, SM**
Phailyn Khemthong,¹ Filip Kielar,¹ Kittipong Chainok,^{1,2*} Herman H.-Y. Sung,³ Ian D. Williams³
¹ Naresuan University, Mueang, Phitsanulok, Thailand ² Thammasat University, Khlong Luang, Pathum Thani, Thailand ³ The Hong Kong University of Science and Technology, Hong Kong (ASCA130256)
- P-122 **EFFECTS OF SUBSTITUTING LA3+ BY SM3+ ION ON THE STRUCTURAL AND MAGNETO-TRANSPORT PROPERTIES OF $LA_{0.85}XSMXK_{0.15}MNO_3$ (X = 0.05, 0.1 AND 0.15) COMPOUNDS**
Mohammed Wasim Shaikh^{1,2}, Irfan Mansuri^{2,3} and Dinesh Varshney^{2,1} *Acropolis Technical Campus, Tillore India*² *Devi Ahilya University, Indore* ³ *Indore Institute of Science and Technology, Rau, India.* (ASCA130266)
- P-123 **SYNTHESIS AND CHARACTERIZATION OF THE MIXED-METALLIC PHOSPHATES, $Li_3-4X(V1-XMX)2(PO_4)3$ (M=NB, TA)**
 Pilsoo Kim, Yongho Kee and Hoseop Yun* *Ajou University, Suwon Korea.* (ASCA130269)
- P-124 **SYNTHESIS AND CRYSTAL STRUCTURE OF THE NEW QUATERNARY THIOPHOSPHATES, $AXNB_2PS_{10}$ (A=K, RB)**
 Woojin Yoon and Hoseop Yun* *Ajou University, Suwon Korea* (ASCA130269)
- P-125 **OBSERVATION OF CHARGE DISTRIBUTIONS IN NANOSTRUCTURES USING COMPREHENSIVE TEM TECHNIQUES**
 Luying Li^{1,2} ¹ *Huazhong University of Science and Technology, Wuhan, China.* ² *Arizona State University, USA.* (ASCA130271)
- P-126 **STUDIES ON SOLVATOMORPHISM OF BETULINIC ACID**
Li Zhang¹, XiaoYing Wang¹, GuanHua Du², Yang Lu^{1,1} *Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing China* ² *Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China* (ASCA130277)
- P-127 **COMPUTATIONAL MODELING OF A NOVEL POLYCATION- π MODE OF MOLECULAR RECOGNITION BY THE INTRINSICALLY DISORDERED EWING'S FAMILY ONCOPROTEINS**
Rui Sheung Chun Ng¹, Jianhui Song², Peter Tompa³, Hue Sun Chan² and Kevin A. W. Lee^{1,1} *Hong Kong University of Science and Technology, China;* ² *University of Toronto, Canada;* ³ *Vrije Universiteit Brussel, Belgium* (ASCA130281)
- P-128 **STUDIES ON POLYMORPHISM OF VALACYCLOVIR HYDROCHLORIDE**
Rui Zhao, Fan Hu, GuanHua Du, Yang Lu *Chinese Academy of Medical Sciences and Peking Union Medical College, China* (ASCA130282)
- P-129 **EXPERIMENTAL DEMONSTRATION OF PRODUCT (PYROPHOSPHATE) RELEASE PROVIDED BY STRUCTURAL SNAPSHOTS OF THE URIDYLTRANSFER REACTION CATALYZED BY GLMU.**
Balaji Prakash, Pravin K.A. Jagta^{P-1}, Neha Vithani, Sunil Kumar Verma, Vaibhav Bias and Nisanth Nair *Indian Institute of Technology, Kanpur, INDIA.* (ASCA130285)

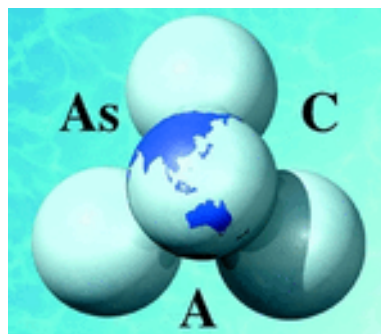
- P-130 **NEUTRON STRUCTURAL STUDY IN ORGANIC FERROELECTRIC PHZ-H2CA**
Akiko Nakao¹, Reiji Kumai², Sachio Horiuchi³, Yoshinori Tokura^{4,5}, Takashi Ohhara⁶, Takayasu Hanashima¹, Koji Munakatai¹, Ryoji Kiyonagi⁶, Takuro Kawasaki⁶, Kenichi Oikawa⁶, Koji Kaneko⁶ and Itaru Mamura⁶ ¹*Research Center for Neutron Science and Technology, Comprehensive Research Organization for Science and Society, Japan.* ²*High Energy Accelerator Research Organization, Japan.* ³*National Institute of Advanced Industrial Science and Technology, Japan.* ⁴*RIEN, Japan.* ⁵*University of Tokyo, Japan.* ⁶*Japan Atomic Energy Agency, Japan.* (ASCA130286)
- P-131 **STRUCTURAL INSIGHTS INTO THE MOLECULAR MECHANISM OF *ESCHERICHIA COLI* SDIA, A QUORUM SENSING RECEPTOR**
Truc Kim^a, Thao Duong¹, Chun-ai Wu^a, Jongkeun Choi², Nguyen Lan¹, Sung Wook Kang¹, Neratur K. Lokanath¹, Dong-Woo Shin¹, Hye-Yeon Hwang¹, and Kyeong Kyu Kim¹ ¹*Samsung Biomedical Research Institute, Sungkyunkwan University School of Medicine, Korea* ²*Chungwoon University, Korea* (ASCA130287)
- P-132 **SYNTHESIS, STRUCTURES, AND PHASE TRANSITIONS OF TETRAMETHYLAMMONIUM HEXAFLUORIDOZIRCONATE SOLVATED BY H₂O·HF ADDUCT [N(CH₃)₄]₂ZRF₆·(H₂O·HF) AND [N(CH₃)₄]₂ZRF₆**
Andrey V. Gerasimenko, Ruven L. Davidovich, Kseniya A. Gaivoronskaya, Elena I. Voit, Nina A. Didenko and Vera B. Logvinova *Russian Academy of Sciences Vladivostok, Russia* (ASCA130291)
- P-133 **IYCR2014 AT THE LAND OF RISING SUN**
Masaki Takata¹ ¹*JASRI/SPring-8, RIKEN SPring-8 Center, Japan.* (ASCA130292)
- P-134 **CRYSTAL STRUCTURE OF NOVEL ENZYME 4-O-B-D-MANNOSYL-D GLUCOSE PHOSPHORYLASE WITH SUBSTRATE AND PRODUCT MOLECULES**
Setsu Nakae¹, Shigeaki Ito², Mariko Higa³, Takeshi Senoura⁴, Jun Wasaki⁵, Atsushi Hijikata¹, Masafumi Shionyu¹, Susumu Ito³ and Tsuyoshi Shirai¹ ¹*Nagahama Institute of Bio-science and Technology, and JST-BIRD, 1266 Tamura, Nagahama, Japan.* ²*Central Tobacco Research Center, Japan Tobacco Inc., Japan.* ³*Faculty of Agriculture, University of the Ryukyus, Japan* ⁴*Ishikawa Prefectural University, Japan* ⁵*Hiroshima University, Japan* (ASCA130293)
- P-135 **STRUCTURE DETERMINATION OF ATG5-ATG16L1 COMPLEX BY COEXPRESSION AND MICROSEEDING TECHNIQUES**
Jun Hoe Kim, Seung Beom Hong, and Hyun Kyu Song *Korea University, Korea* (ASCA130294)
- P-136 **THE STRUCTURE OF YEAST N-TERMINAL AMIDASE NTA1 INVOLVED IN THE FIRST STEP OF N-END RULE PATHWAY**
MinKyung Kim, Byung-Gil Lee, and Hyun Kyu Song *Korea University, Korea.* (ASCA130294)
- P-137 **SOLUTION STRUCTURAL STUDIES OF SOLUBLE EXTRACELLULAR DOMAIN OF AMYLOID PRECURSOR PROTEIN**
Shingo Kanemura^{1,3}, Masaki Okumura^{2,3}, Daiki Imai^{1,3}, Katsuhide Yutani³, Takaaki Hikima³, Michio Niinobe⁴, Yuji Hidaka⁵, and Hiroshi Yamaguchi^{1,3} ¹*Kwansei Gakuin University, Japan,* ²*Tohoku University, Japan,* ³*RIKEN SPring-8 Center, RIKEN Harima Institute, Japan,* ⁴*Osaka University, Japan,* ⁵*Kinki University, Japan* (ASCA130296)

- P-138 **RELATION BETWEEN CRYSTAL STRUCTURE AND PHASE TRANSITION OF SUPERPROTONIC CONDUCTOR, $\text{RB}_{3-x}\text{K}_x\text{H}(\text{SeO}_4)_2$**
Ryoji Kiyonagi¹, Yasumitsu Matsuo², Takashi Ohhara¹, Takuro Kawasaki¹, Kenichi Oikawa¹, Koji Kaneko¹, Itaru Tamura¹, Takayasu Hanashima³, Koji Munakata³, Akiko Nakao³, Yukinobu Kawakita^{1,1} *MLF, J-PARC center, Japan Atomic Energy Agency, Japan.* ²*Setsuman University, Japan.* ³*Comprehensive Research Organization for Science and Society (CROSS), Japan.*(ASCA130304)
- P-139 **STRUCTURAL INSIGHTS INTO RNASE T IN RNA MATURATION AND DNA REPAIR**
Hanna S. Yuan¹, Yu-Yuan Hsiao^{1,2} and Woei Chyn Chu³ ¹*Academia Sinica, Taipei, Taiwan.* ²*National Chiao Tung University, Hsinchu, Taiwan.* ³*National Yang-Ming University, Taipei, Taiwan.* (ASCA130307)
- P-140 **SAMPLE ENVIRONMENT DEVICES FOR A TOF-LAUE SINGLE CRYSTAL NEUTRON DIFFRACTOMETER SENJU AT J-PARC**
Takashi Ohhara¹, Ryoji Kiyonagi¹, Koji Kaneko¹, Takuro Kawasaki¹, Kenichi Oikawa¹, Itaru Tamura¹, Akiko Nakao², Takayasu Hanashima², Koji Munakata², Taketo Moyoshi², Tetsuya Kuroda², Yasuhiro Yamauchi¹ and Seiko Ohira-Kawamura^{1v1} *J-PARC Center, Japan Atomic Energy Agency, Japan.* ²*Research Center for Neutron Science and Technology, Comprehensive Research Organization for Science and Society, Japan.*(ASCA 130309)
- P-141 **CRYSTAL STRUCTURE OF APO AND COPPER BOUND HP-0894 TOXIN FROM HELICOBACTER PYLORI AND INSIGHT INTO MRNASE ACTIVITY**
Ae-Ran Kwon¹, Chinar Pathak², Hookang Im² and Bong-Jin Lee^{2,1} *Daegu Haany University, Republic of Korea.* ²*Seoul National University, Republic of Korea.*(ASCA130311)
- P-142 **UNRAVELING THE STRUCTURES OF PROTEIN COMPLEXES AND MOLECULAR MACHINES WITH ELECTRON MICROSCOPY**
Eric Hnath, Marc Storms, Jeffery Lengyel, Thomas Wohlfarth *FEI Company, The Netherlands* (ASCA130312)
- P-143 **CONTROL OF PHOTOCHROMISM IN DUAL PHOTOREACTIVE CRYSTAL**
Akiko Sekine, Sayaka Ina, Hiroki Yamagiwa, Yuta Yamazaki, Kohei Johmoto and Hidehiro Uekusa *Tokyo Institute of Technology, Japan* (ASCA130319)
- P-144 **UBA LINKER IS SIGNIFICANT FOR THE ACTIVATION OF MPK38.**
Yong-Soon Cho¹, Jiho Yoo¹, Soomin Park¹, Yingjin Kang¹ and Hyun-Soo Cho^{1,1} *Yonsei University, Korea* (ASCA130322)
- P-145 **ELECTRONICS MODIFICATION OF POLYANILINE IN NANOCOMPOSITES**
Duong Ngoc Huyen, Nguyen Trong Tung, and Nguyen Duc Thien *Hanoi University of Science and Technology, Vietnam* (ASCA130323)
- P-146 **THE CRYSTAL STRUCTURE AND MAGNETIC PROPERTY OF IODINE ADSORBED $[\text{Fe}(\text{PZ})\text{PD}(\text{CN})_4]$**
Yohei Sato¹, Kazufumi Kimura¹, Akihiro Hori², Ken-ichi Kato², Masaki Takata², Ryo Ohtani³, Susumu Kitagawa³, Masaaki Ohba⁴ and Yoshiki Kubota^{1,2,1} *Graduate School of Science, Osaka Prefecture University, Japan.* ²*Harima Institute SPring-8 Center RIKEN and CREST, Japan Science and Technology Agency, Japan.* ³*Graduate School of Engineering, Kyoto University, Japan.* ⁴*Kyushu University, Japan* (ASCA130325)

- P-147 **SOLUTION SCATTERING STUDY ON UBIQUITIN DETACHING ENZYMES, AMSH**
Yang Ouk Jung¹, Si Hoon Park¹, and Hyun Kyu Song¹ ¹ *Korea University, Korea. (ASCA130327)*
- P-148 **INSIGHTS INTO COFACTOR BINDING TO THE AAA ATPASE P97**
Su Jin Kim, Joon Kyu Park and Eunice EunKyeong Kim *Korea Institute of Science and Technology, Korea (ASCA130328)*
- P-149 **CRYSTAL STRUCTURE OF DHP DOMAIN OF NARS FROM *MYCOBACTERIUM TUBERCULOSIS***
Ha Yeon Cho and Beom Sik Kang *Kyungpook National University, Korea. (ASCA130329)*
- P-150 **EFFECTIVE MERCURY SORPTION BY THIOL-LACED METAL-ORGANIC FRAMEWORKS: IN STRONG ACIDS AND THE VAPOR PHASE**
Ka-Kit Yee,¹ Nele Reimer,² Jie Liu,¹ Sum-Yin Cheng,¹ Shek-Man Yiu,¹ Jens Weber,³ Norbert Stock,² and Zhengtao Xu,^{1,1} *City University of Hong Kong, China.*² *Christian-Albrechts Universität, Germany.*³ *Max-Planck-Institute of Colloids and Interfaces, Research Campus Golm, Germany. (ASCA130331)*
- P-151 **SULFUR-FUNCTIONALIZED POROUS ZIRCONIUM-BASED METAL-ORGANIC FRAMEWORK**
Yan-Lung Wong,¹ Ka-Kit Yee,¹ Matthias Zeller² and Zhengtao Xu¹ ¹ *City University of Hong Kong, China.* ² *Youngstown State University, United States. (ASCA130332)*
- P-152 **A REVOLUTION IN CRYSTAL STRUCTURE ANALYSIS WITH HYBRID PIXEL ARRAY DETECTOR**
Kazuaki Aburaya¹, Takashi Matsumoto¹, Tatsuki Miyoshi¹, Akihito Yamano¹ and Masataka Maeyama¹ ¹ *Rigaku Corporation, Tokyo, Japan. (ASCA130334)*
- P-153 **CONVENIENT DETECTION OF PD(II) BY A METAL-ORGANIC FRAMEWORK WITH SULFUR AND OLEFIN FUNCTIONS**
Meiqin Zha,¹ Jun He,^{1,2} Jieshun Cui,¹ Matthias Zeller,³ Allen D. Hunter,³ Shek-Man Yiu,¹ Shuit-Tong Lee,⁴ and Zhengtao Xu¹ ¹ *City University of Hong Kong, China.*² *Guangdong University of Technology, China.*³ *Youngstown State University, Ohio, United States.*⁴ *Soochow University, Suzhou, Jiangsu, China. (ASCA130335)*
- P-154 **STRUCTURAL BASIS FOR DNA-MEDIATED ALLOSTERIC REGULATION FACILITATED BY AAA⁺ MODULE OF LON PROTEASE**
Yu-Da Chen^{1,2}, Alan Yueh-Luen Lee³, Pei-Hsin Chou⁴, Shih-Hsiung Wu^{2,5} and Chun-Hua Hsu^{1,6,1} *National Taiwan University, Taipei, Taiwan.* ² *National Taiwan University, Taipei, Taiwan.* ³ *National Health Research Institutes, Miaoli, Taiwan.* ⁴ *National Cheng-Kung University, Tainan, Taiwan.* ⁵ *Academia Sinica, Taipei, Taiwan.* ⁶ *National Taiwan University, Taipei, Taiwan. (ASCA130339)*
- P-155 **UPGRADE PLAN AND THE CURRENT STATUS ON STRUCTURAL BIOLOGY BEAMLINES AT THE PHOTON FACTORY**
Naohiro Matsugaki¹, Yusuke Yamada¹, Leonard M.G. Chavas², Masahiko Hiraki¹, Nobutaka Shimizu¹, Noriyuki Igarashi¹, Soichi Wakatsuki^{1,3,4} and Toshiya Senda^{1,1} *High Energy Accelerator Research Organization (KEK), Tsukuba, Ibaraki, Japan* ² *Deutsches Elektronen-Synchrotron (DESY), Center for Free-Electron Laser (CFEL), Germany* ³ *Stanford University, USA* ⁴ *SLAC, USA (ASCA130341)*

- P-156 **THE PREPARATION OF VARIOUS POLYMORPHIC MODIFICATIONS OF FUROSEMIDE AND ANALYSIS OF THEIR STRUCTURES**
Elena V. Boldyreva^{1,2}, Vasily S. Minkov^{1,2}, Alina A. Beloborodova^{1,2}, Valeri A. Drebushchak^{2,3}
¹*Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia.* ²*Novosibirsk State University, Novosibirsk, Russia.* ³*Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia.* (ASCA130344)
- P-157 **FORMATION OF BIFURCATED S-H...O HYDROGEN BONDS IN CYSTEINE CONTAINING CRYSTAL STRUCTURES ON INCREASING PRESSURE**
Elena V. Boldyreva^{1,2} and Vasily S. Minkov^{1,2} ¹*Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia.* ²*Novosibirsk State University, Novosibirsk, Russia.* (ASCA130344)
- P-158 **THE INFLUENCE OF WATER ON THE TRANSFORMATION BETWEEN SUPRAMOLECULAR ISOMERS OF BIS(N-HYDROXYETHYL-N-ISOPROPYL-DITHIOCARBAMATO)CADMIUM(II)**
Nadiah Halim, Yee Seng Tan, Seik Weng Ng, and Edward R.T. Tiekink *University of Malaya, Kuala Lumpur, Malaysia* (ASCA130354)
- P-159 **SYNTHESIS AND STRUCTURE OF DINUCLEAR RUTHENIUM NITRIDO COMPLEXES**
Wai-Man Cheung, Ho-Yuen Ng, Herman H. Y. Sung, Ian D. Williams, and Wa-Hung Leung*
The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong(ASCA130364)
- P-160 **SYNTHESIS AND CRYSTAL STRUCTURES OF CERIUM(IV) OXO AND PEROXO COMPLEXES**
Guo-Cang Wang, Herman H. Y. Sung, Ian D. Williams, and Wa-Hung Leung*
¹*The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong* (ASCA130364)
- P-161 **VARIANT LUMINESCENCE IN ORGANO METAL PHOSPHATES CONTAINING AN ISOLATED 4-RING ZINCOPHOSPHATE TECTON**
Sue-Lein Wang *Department of Chemistry, National Tsing Hua University, Hsinchu 30013, Taiwan* (ASCA130365)
- P-162 **A NOVEL MODE OF FERRIC ION-COORDINATION OF THE PERIPLASMIC FERRIC ION-BINDING SUBUNIT, FBPA, OF AN ABC-TYPE IRON TRANSPORTER FROM *THERMUS THERMOPHILES* HB8**
Shipeng Wang¹, Misaki Ogata¹, Shoichiro Horita¹, Jun Ohtsuka¹, Koji Nagata¹ and Masaru Tanokura¹ ¹*University of Tokyo,, Japan* (ASCA130183)

AsCA'13



Hong Kong



Main Sponsors

Rigaku Corporation

Bruker AXS GmbH

Agilent Technologies (China)

International Union of Crystallography

