The American Society of Pharmacognosy Annual Meeting

July 29 – August 2, 2017
Hilton Portland Downtown
Portland, Oregon

Saturday July 29, 2017

7:30 AM – 7:30 PM – Registration – Grand Ballroom Foyer

9:00 AM – 4:00 PM – Council Suite - Executive Committee Meeting (Invitation Only)

9:00 AM – 11:00 AM – Galleria South
“Updated Guide to Scientific Writing and Publishing” with Drs. A. Douglas Kinghorn (The Ohio State University), Daneel Ferreira (University of Mississippi), and Ms. Leslie Walker (ACS)

9:00 AM – 4:00 PM – Grand Ballroom II (Lunch included at 12:00 PM)
“Applications of NMR Beyond Structure Elucidation” with Drs. Charlotte Simmler and Guido Pauli (University of Illinois, Chicago)

11:30 AM – 1:00 PM – Galleria South
“Determining the mechanism of action of potential anticancer agents: beyond apoptosis” with Ms. Corena Schaffer, and Drs. April Risinger, Andrew Robles and Susan Mooberry (University of Texas, Health Sciences Center, San Antonio)

1:00 PM – 4:00 PM – Forum Suite
“Grant Writing Strategies” with Dr. D. Craig Hopp (NCCIH, National Institutes of Health)

1:00 PM – 5:00 PM – Galleria North
“Following the Path of a Natural Product Molecule (Extraction to Elucidation)” with Drs. Mark O’Neil-Johnson (Sequoia Biosciences) and Jimmy Yuk (Waters, Inc.)

12:00 PM – 5:00 PM – Exhibitor Set Up – Grand Ballroom Foyer
7:00 PM – 10:00 PM – Welcome Reception – Grand Ballroom I – (Ticketed Event)

Sunday July 30, 2017

7:30 AM – 6:00 PM – Registration – Grand Ballroom Foyer

7:30 AM – 6:00 PM – Exhibition – Grand Ballroom Foyer

7:15 AM – 8:15 AM – Continental Breakfast – Grand Ballroom Foyer

8:15 AM – 8:30 AM Welcoming remarks and announcements – Grand Ballroom I and II

Grand Ballroom I and II
Symposium I - Natural Products Biosynthesis and Synthetic Biology
Chairs: Taifo Mahmud and Benjamin Philmus

8:30 AM – 9:15 AM S-01
Chaitan Khosla (Stanford University)
ASSEMBLY LINE BIOSYNTHESIS OF POLYKETIDE ANTIBIOTICS

9:15 AM – 10:00 AM S-02
Ikuro Abe (The University of Tokyo)
ENGINEERED BIOSYNTHESIS OF FUNGAL MEROTERPENOIDS

10:00 AM – 10:30 AM Break – Grand Ballroom Foyer

10:30 AM – 11:15 AM S-03
Huimin Zhao (University of Illinois, Urbana-Champaign)
BREAKING THE SILENCE: NEW STRATEGIES FOR DISCOVERING NOVEL NATURAL PRODUCTS

11:15 AM – 12:00 PM S-04
Jurgen Rohr (University of Kentucky)
POST-PKS ENZYME COMPLEXES

12:00 PM – 1:30 PM – Lunch (on your own)

12:00 PM – 1:30 PM – Journal of Natural Products Editorial Board Meeting (Invitation Only)

Grand Ballroom I
Session – S-PM1 - Natural Products Biosynthesis
Chair: Benjamin Philmus

1:30 PM – 1:50 PM  O-01  
**Steven Van Lanen** (University of Kentucky)  
BIOSYNTHESIS OF HIGHLY MODIFIED PEPTIDYL-NUCLEOSIDE ANTIBIOTICS INHIBITING BACTERIAL TRANSLOCASE I

1:50 PM – 2:10 PM  O-02  
**Hyun Bong Park** (Yale University)  
FUNCTIONAL CHARACTERIZATION OF A HYBRID NONRIBOSOMAL PEPTIDE SYNTHETASE-LIKE-PTERIDINE SYNTHASE BIOSYNTHETIC GENE CLUSTER

2:10 PM – 2:30 PM  O-03  
**Guojun Wang** (Florida Atlantic University)  
DEEP-SEA SPONGE NATURAL PRODUCTS: BIOSYNTHETIC GENES AND ENZYMES

2:30 PM – 2:50 PM  O-04  
**Jaclyn M. Winter** (University of Utah)  
IDENTIFICATION OF THE MANGICOL BIOSYNTHETIC GENE CLUSTER IN FUSARIUM EQUISETI CNC-477 AND CHARACTERIZATION OF ITS SESTERTERPENE SYNTHASE

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**Grand Ballroom II**

Session S-PM2 Herbal and Plant Natural Products  
Chair: Joe Chappell

1:30 PM – 1:50 PM  O-05  
**Joshua Kellogg** (University of North Carolina at Greensboro)  
STUDIES IN SIMILARITY: METABOLOMICS-BASED MULTIVARIATE CORRELATION FOR COMPARISON OF NATURAL PRODUCTS

1:50 PM – 2:10 PM  O-06  
**Gonzalo Rodolfo Malca-Garcia** (University of Illinois at Chicago)  
INVESTIGATION OF THE RESIDUAL COMPLEXITY OF RED CLOVER ISOFLAVONOIDS BY OFF-LINE CCS-qNMR

2:10 PM – 2:30 PM  O-07  
**Pei Chen** (USDA)  
FLAVONQ: AN "EXPERT SYSTEM" AUTOMATED DATA PROCESSING TOOL FOR PROFILING FLAVONOIDS USING ULTRA HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
DIODE ARRAY DETECTION HIGH-RESOLUTION ACCURATE-MASS MASS SPECTROMETRY (UHPLC HRAM-MS)

2:30 PM – 2:50 PM  O-08  
**Fabien Schultz** (Technical University of Berlin)  
INVESTIGATION OF BIOACTIVE COMPOUNDS FROM MEDICINAL PLANTS COLLECTED IN THE TROPICAL RAINFORESTS OF EAST AFRICA

2:50 PM – 3:20 PM  Break – *Grand Ballroom Foyer*

**Grand Ballroom I**  
Session S-PM3 - Synthetic and Chemical Biology  
Chair: Alessandra Eustaquio

3:20 PM – 3:40 PM  O-09  
**Rob J. Capon** (The University of Queensland)  
CANE TOAD CHALLENGE: EXPLOITING CHEMICAL ECOLOGY TO CONTROL A TOXIC INVASIVE PEST SPECIES

3:40 PM – 4:00 PM  O-10  
**Coran Watanabe** (Texas A&M University)  
CYCLORETINAL IN AGE-RELATED MACULAR DEGENERATION: ITS BIOSYNTHESIS BY THE MILK PROTEIN BETA-LACTOglobulin AND ITS CATABOLISM AS A TREATMENT STRATEGY

4:00 PM – 4:20 PM  O-11  
**Mostafa E. Abugrain** (Oregon State University)  
CHEMOENZYMATIC SYNTHESIS OF NEW PACTAMYCIN ANALOGS

4:20 PM – 4:40 PM  O-12  
**Gilbert Gorr** (Phyton Biotech GmbH)  
BIOSYNTHESIS AND PRODUCTION OF ACTIVES BY PLANT CELL CULTURE

**Grand Ballroom II**  
Session S-PM4 - Medicinal Chemistry and Drug Discovery  
Chair: Tadeusz Molinski

3:20 PM – 3:40 PM  O-13  
**James Fuchs** (Ohio State University)
LEAD OPTIMIZATION AND BIOLOGICAL EVALUATION OF CYTOTOXIC ARYNAPHTHALENE LIGNAN LACTONE NATURAL PRODUCTS

3:40 PM – 4:00 PM  O-14
Lena Keller (University of California – San Diego)
A NATURAL PRODUCT ‘MAKEOVER’ – DEVELOPMENT OF PLASMODIUM-SELECTIVE PROTEASOME INHIBITORS AS ANTIMALARIAL AGENTS BASED ON CARMAPHYCN B

4:00 PM – 4:20 PM  O-15
Russell Williams (Sequoia Sciences, Inc.)
DISCOVERY AND DEVELOPMENT OF BIFIDENONE AS AN ANTICANCER DRUG LEAD

4:20 PM – 4:40 PM  O-16
Paul Graupner (Dow AgroSciences)
INATREQ™ ACTIVE – A NOVEL NATURAL PRODUCT BASED AGROCHEMICAL TO CONTROL FUNGAL INFECTIONS IN CEREALS

4:40 PM – 7:00 PM  Poster Session I – Pavilion Ballroom and Foyer
(P-001 – P-174)
Chair: Sandra Loesgen
(All posters need to be picked up by Monday 9:00 AM)

Monday July 31, 2017

7:30 AM – 5:00 PM – Registration – Grand Ballroom Foyer

7:30 AM – 5:00 PM – Exhibition – Grand Ballroom Foyer

7:30 AM – 8:30 AM – Continental Breakfast – Grand Ballroom Foyer

Grand Ballroom I and II
Symposium II - Molecular Pharmacology of Natural Products and Complementary Medicine
Chairs: Fred Stevens and Sandra Loesgen

8:30 AM – 9:15 AM  S-05
Prakash Nagarkatti (University of South Carolina)
UNDERSTANDING THE EPIGENETIC PATHWAYS OF REGULATION BY CANNABINOIDS AND THEIR USE AS ANTI-INFLAMMATORY AGENTS

9:15 AM – 10:00 AM  S-06  
Luc Pieters (University of Antwerp – 2017 Waters Award for Excellence in Natural Products Innovation) 
NATURAL PRODUCTS AS PRODRUGS: SOME CASE STUDIES

10:00 AM – 10:30 AM  Break

10:30 AM– 11:15 AM S-07  
Amala Soumyanath (Oregon Health & Science University)  
BOTANICALS AND ALZHEIMER’S DISEASE – CHOLINESTERASE INHIBITORS, ANTI-AMYLOID STRATEGIES AND BEYOND

11:15 AM – 12:00 PM S-08  
Dale Nagle (University of Mississippi)  
NATURAL PRODUCTS AS MOLECULAR PROBES OF BREAST TUMOR CELL METABOLISM AND METASTATIC ORGANOTROPISM

12:00 PM – 1:30 PM  Lunch (on your own)

12:00 PM – 1:30 PM  ASP Fellows Meeting – Council Suite (Invitation Only)

Grand Ballroom I  
Session M-PM1 - Plants and Neurology/Medical Marijuana  
Chair: Amala Soumyanath

1:30 PM – 1:50 PM  O-17  
Arun Rajgopal (Amway)  
GLABRIDIN, EVODIAMINE AND BOTANICAL EXTRACTS ACTIVATE AMP-ACTIVATED PROTEIN KINASE TO AUTOPHAGY POSSIBLY THROUGH mTOT, A PARKINSON’S AND ALZHEIMER’S DISEASE TARGET

1:50 PM – 2:10 PM  O-18  
Nam-Cheol Kim (United States Pharmacopeia)  
USP’S EFFORTS FOR DEVELOPING CANNABIS PUBLIC STANDARDS

2:10 PM – 2:30 PM  O-19
**Chris Witowski** (Alternative Medical Enterprises, LLC)
FORMULATION OF MEDICINAL CANNABIS DELIVERY DEVICES

2:30 PM – 2:50 PM  O-20

**Esperanza Carcache de Blanco** (Ohio State University)
IDENTIFICATION OF PLANT SECONDARY METABOLITES AS NF-KB LEADS

**Grand Ballroom II**
Session M-PM2 - Microbial Natural Products
Chair: Sheo Singh

1:30 PM – 1:50 PM  O-21

**Hiroyasu Onaka** (The University of Tokyo)
COMBINED-CULTURE: ACTINOMYCETES POTENTIAL SECONDARY METABOLISM IS AWAKENED BY CO-CULTURE WITH MYCOLIC ACID CONTAINING BACTERIA

1:50 PM – 2:10 PM  O-22

**Emily Mevers** (Harvard University)
INDUCTION OF A POTENT AND SELECTIVE STAPHYLOCOCCUS AUREUS ANTIBIOTIC

2:10 PM – 2:30 PM  O-23

**Dong-Chan Oh** (Seoul National University)
DISCOVERY OF NEW BIOACTIVE NATURAL PRODUCTS FROM INSECT SYMBIONTS

2:30 PM – 2:50 PM  O-24

**Jie Li** (University of California - San Diego)
PRODUCTION OF NEW THIOLACTOMYCIN ANTIBIOTICS WITH POTENTIATED BIOACTIVITY BY ENZYMATIC TANDEM CARBOXYLATION-AMIDATION

**Grand Ballroom I**
Session M-PM3 - Dietary Supplements
Chair: Craig Hopp

2:50 PM – 3:10 PM  O-25

**Joseph Betz** (NIH)
OVERVIEW OF THE 2017-2021 STRATEGIC PLAN FOR THE NIH OFFICE OF DIETARY SUPPLEMENTS
Mitzi Nagarkatti (University of South Carolina)  
INDOLE-3-CARBINOL ATTENUATES COLITIS THROUGH ALTERATIONS IN GUT MICROBIOTA AND METABOLIC PATHWAYS

Teresa Horm (Unigen)  
AMLEXIN, A BOTANICAL COMPOSITION, DEMONSTRATES EFFICACY IN MULTIPLE MODELS OF ARTHRITIS DISEASE PROGRESSION AND IN A HUMAN CLINICAL TRIAL

Debasis Bagchi (University of Houston)  
CLINICAL EVALUATION OF A STANDARDIZED PRUNUS DOMESTICA EXTRACT ON BENIGN PROSTATE HYPERPLASIA (BPH) IN MALE VOLUNTEERS

Grand Ballroom II  
Session M-PM4 - Fungal Natural Products  
Chair: James Gloer

Andrea Stierle (University of Montana)  
THE BERKELEYLACTONES, ANTIBIOTIC MACROLIDES FROM FUNGAL COCULTURE

Christine Salomon (University of Minnesota)  
ANTIFUNGAL DISCOVERY FOR THE TREATMENT OF WHITE NOSE SYNDROME (WNS) IN BATS

Sandra Loesgen (Oregon State University)  
BIOTRANSFORMATION OF THE HDAC INHIBITOR VORINOSTAT YIELDS NEW ANILINE –CONTAINING FUNGAL METABOLITES

Andrew Robles (UT Health San Antonio)  
IDENTIFICATION AND MECHANISTIC STUDIES OF A FUNGAL METABOLITE WITH SELECTIVE CYTOTOXIC ACTIVITY AGAINST EWING SARCOMA CELLS

Poster Session II – Pavilion Ballroom and Foyer
(P-175 – P-346)
Chair: Nadja Cech
(All posters still up by 6:30 PM will be moved to Broadway Rooms and need to be picked up by Tuesday 9:00 AM)

6:30 PM Bus Loading for OMSI

7:00 PM – 10:00 PM Oregon Museum of Science and Industry (Dinner - Ticketed Event)
1945 SE Water Avenue
Portland, OR 97214
Directions to OMSI

Tuesday August 1, 2017

8:00 AM – 5:00 PM – Registration – Grand Ballroom Foyer

7:30 AM – 10:30 AM – Exhibition – Grand Ballroom Foyer

7:30 AM – 8:30 AM – Continental Breakfast – Grand Ballroom Foyer

10:30 AM – 3:00 PM – Exhibition Dismantling – Grand Ballroom Foyer

Grand Ballroom I and II
Symposium III - Natural Products from Unique Ecosystems
Chairs: Kerry McPhail and Taifo Mahmud

8:30 AM – 9:15 AM S-09
Bill Baker (University of South Florida)
CHEMISTRY AND BIOACTIVITY OF ANTARCTIC MARINE INVERTEBRATES

9:15 AM – 10:00 AM S-10
Julia Kubanek (Georgia Institute of Technology)
METABOLOMICS APPROACHES FOR UNDERSTANDING THE ECOLOGICAL IMPACTS OF NATURAL PRODUCTS IN MARINE SYSTEMS

10:00 AM–10:30 AM Break

10:30 AM – 11:15 AM S-11
Pei-Yuan Qian (Hong Kong University of Science and Technology)
GENOME-MINING COUPLED WITH MANIPULATION OF BIOSYNTHESIS PATHWAYS AS A POWERFUL TOOL FOR BIOACTIVE COMPOUND DISCOVERY

11:15 AM – 12:00 PM  S-12
Ryuichi Sakai (Hokkaido University)
BIOACTIVE METABOLITES FROM WATER-SOLUBLE MARINE EXTRACTS

12:00 PM – 1:30 PM  Lunch (on your own)

Grand Ballroom I
Session T-PM1 - Molecular Pharmacology of Natural Products
Chair: Dale Nagle

1:30 PM – 2:00 PM  O-33
David Kingston (Virginia Tech University)
GOLD NANOPARTICLES FOR DRUG DELIVERY OF PACLITAXEL AND DOXORUBICIN

2:00 PM – 2:20 PM  O-34
Stephen Polyak (University of Washington)
NETWORK PERTURBATIONS THAT UNDERLIE ANTI-INFLAMMATORY BIOACTIVITY OF NATURAL PRODUCT COMBINATIONS

2:20 PM – 2:40 PM  O-35
Cassandra Quave (Emory University)
SENSITIZATION OF BETA-LACTAM ANTIBIOTICS WITH RESISTANCE MODIFYING AGENTS FROM A MEDICINAL PLANT

2:40 PM – 3:00 PM  O-36
Charlotte Simmler (University of Illinois at Chicago)
IDENTITY AND PURITY VERIFICATION OF COMMERCIAL COMPOUNDS IS ESSENTIAL FOR THE ACCURACY OF BIOLOGICAL RESULTS

Grand Ballroom II
Session T-PM2 - Advanced Technologies in Natural Products Research
Chairs: Roger Linington and John MacMillan
1:30 PM – 2:00 PM  O-37
**Marnix Medema** (Wageningen University)
NEW COMPUTATIONAL APPROACHES TO NATURAL PRODUCT DISCOVERY IN PLANTS AND MICROBES

2:00 PM – 2:20 PM  O-38
**Giorgis Isaac** (Waters Corporation)
CHEMICAL ANALYSIS AND ADULTERANT CHARACTERIZATION OF ELEUTHEROCOCCUS SENTICOSUS AND CI-WU-JIA TEA BY UHPLC UV-MS USING NOVEL INFORMATICS PLATFORM

2:20 PM – 2:40 PM  O-39
**Kenji Kurita** (Genentech Research and Early Development)
BRIDGING THE GAP BETWEEN MOUNTAINS OF DATA

2:40 PM – 3:00 PM  O-40
**Brian Murphy** (University of Illinois at Chicago)
MALDI-TOF MS-BASED TAXONOMIC AND METABOLOMIC PROFILING FOR INFORMED MICROBIAL LIBRARY GENERATION

3:00 PM – 3:20 PM  Break – *Grand Ballroom Foyer*

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**Grand Ballroom I**
Session T-PM3 - Plant Natural Products
Chair: Angela Hoffman

3:20 PM – 3:40 PM  O-41
**K. Brian Killday** (Bruker)
NMR CHEMOMETRICS: DEVELOPMENT OF AUTOMATED MULTICLASS CLASSIFICATION METHODS FOR BOTANICALS

3:40 PM – 4:00 PM  O-42
**Anna Berim** (Washington State University)
ELUCIDATION OF METHOXYLATED FLAVONE BIOSYNTHESIS IN SWEET BASIL AND USE OF UNDERLYING ENZYMES TO FOR FLAVONOID BIODIVERSIFICATION

4:00 PM – 4:20 PM  O-43
**Angela Calderon** (Auburn University)
LC-MS-BASED STRATEGY FOR SCREENING OF PASSIVELY ABSORBED AÇAÍ AND MACA EXTRACT CONSTITUENTS FOR CYP3A4 INHIBITION
4:20 PM – 4:40 PM  O-44
Xavier Siwe Noundou (Rhodes University)
A TRIP TO THE AFRICA RAINFOREST: SCIENTIFIC RATIONALE
OF SOME MEDICINAL PLANTS

Grand Ballroom II
Session T-PM4 - Natural Products from Unique Sources
Chair: Tim Bugni

3:20 PM – 3:40 PM  O-45
Lilibeth Salvador-Reyes (University of the Philippines)
ANTIMALARIAL COMPOUNDS FROM PHILIPPINE SPONGE-
ASSOCIATED MICROORGANISMS

3:40 PM – 4:00 PM  O-46
Shugeng Cao (University of Hawai‘i at Hilo)
BACTERIAL METABOLITES AND LARVAL RECRUITMENT FOR
BENTHIC MARINE COMMUNITIES

4:00 PM – 4:20 PM  O-47
Matthew Bertin (University of Rhode Island)
CHEMICAL PROFILING OF A TRICHODESMIUM BLOOM FROM
THE GULF OF MEXICO REVEALS A BIOSYNTHETICALLY
INTRIGUING METABOLOME

4:20 PM – 4:40 PM  O-48
Laura Sanchez (University of Illinois at Chicago)
BACTERIAL COMMUNICATION IN SITU: A TALE OF TWO
VIBRIOS

6:30 PM – Free evening for non-younger members

6:30 PM  Walk to Younger Members Event at Punch Bowl Social
340 SW Morrison Street
Portland, OR 97204
Directions to Punch Bowl Social

7:00 PM – 10:00 PM Younger Members Event – Punch Bowl Social (Ticketed Event)

Wednesday August 2, 2017

8:00 AM – 3:00 PM – Registration – Grand Ballroom Foyer
Grand Ballroom I and II
Award Symposium

8:10 AM – 9:00 AM  
S-13  
**Guy Carter** (Biosortia Pharmaceuticals – Norman R. Farnsworth Achievement Award Lecture)  
NATURAL PRODUCTS IN PHARMA 1980-2010: A PERSONAL PERSPECTIVE

9:00 AM – 9:50 AM  
S-14  
**Richard Van Breemen** (University of Illinois at Chicago – Varro Tyler Prize Award Lecture)  
FROM BOTANICAL AUTHENTICATION THROUGH CLINICAL EVALUATION, SAFETY AND EFFICACY OF BOTANICAL DIETARY SUPPLEMENTS

9:50 AM – 10:20 AM  
Break – **Grand Ballroom Foyer**

10:20 AM – 11:00 AM  
S-15  
**Katherine S. Ryan** (University of British Columbia – Matt Suffness Young Investigator’s Award Lecture)  
USING COFACTORs IN NEW WAYS IN NATURAL PRODUCTS BIOSYNTHESIS

11:00 AM – 11:20 AM  
S-16  
**Fatma Alawadhi** (University of Florida – Kilmer Prize Award)  
GRASSYSTATINS D–F, POTENT ASPARTIC PROTEASE INHIBITORS FROM MARINE CYANOBACTeria AS POTENTIAL ANTImETASTATIC AGents TARGETING INVASIVE BREAST CANCER

11:20 AM – 11:40 AM  
S-17  
**Samantha Gromek** (University of Connecticut – Student Research Award)  
ANTIFUNGAL LEAD DISCOVERY FROM BACTERIA ASSOCIATED WITH THE HAWAIIAN BOBTAIL SQUID TO TREAT FUSARIAL INFECTIONS

11:40 AM – 12:00 PM  
S-18  
**Siddharth Tripathi** – (University of Mississippi – John Faulkner Travel Award)  
A SMALL MOLECULE SCREEN IDENTIFIES AN Hsp90 INHIBITOR THAT DISRUPTS THE FUNGAL CELL WALL INTEGRITY PATHWAY
12:00 PM – 1:30 PM  Lunch (on your own)

**Grand Ballroom I**
Session W-PM1 – The Future of ASP I
Chair: Chris Thornburg

1:30 PM – 1:45 PM  O-49  
*Tiago Leao* (University of California – San Diego)  
OMICS APPROACH FOR ACCESSING THE NATURAL PRODUCT UNIVERSE OF MARINE CYANOBACTERIA

1:45 PM – 2:00 PM  O-50  
*Andrew Osborn* (Oregon State University)  
EVOLUTION OF C₇-CYCLITOL SYNTHASES AND THEIR DISTRIBUTION THROUGHOUT PROKARYA AND EUKARYA

2:00 PM – 2:15 PM  O-51  
*Erin P. McCauley* (University of California Santa Cruz)  
BIOACTIVE NATURAL PRODUCTS FROM INDO-PACIFIC MARINE SPONGES

2:15 PM – 2:30 PM  O-52  
*Danielle Demers* (University of South Florida)  
UNCOVERING THE CHEMICAL DIVERSITY OF A LIBRARY OF EPIGENETICALLY MODIFIED FUNGAL EXTRACTS

2:30 PM – 2:45 PM  O-53  
*Matt McErlean* (University of Kentucky)  
INDUCIBLE ACTINOMYCIN HETEROCYCLE CAUSES CHANGES IN ACTIVITY AND SHOWN IN MULTIPLE ACTINOMYCIN FAMILIES

2:45 PM – 3:00 PM  O-54  
*Mary Choules* (University of Illinois at Chicago)  
ANTI-M.TB RUFOMYCIN IN COMBINATION WITH CLPC1 TARGETING COMPOUNDS

3:00 PM – 3:15 PM  O-55  
*Jarmo-Charles Kalinski* (Rhodes University, South Africa)  
BIOLOGICAL ACTIVITY OF PYRROLOIMINOQUINONE ALKALOIDS FROM SOUTH AFRICAN LATRUNCULID SPONGES

3:15 PM – 3:30 PM  O-56  
*Seoung Rak Lee* (Sungkyunkwan University, Republic of Korea)
ISOFLAVONOID GLYCOSIDES FROM THE TERMITE-ASSOCIATED *STREPTOMYCES* SP. RB1

**Grand Ballroom II**
Session W-PM2 - The Future of ASP II
Chair: Angela Calderon

1:30 PM – 1:45 PM  O-57  
**Emily Rue** (University of Illinois at Chicago)  
PROCYANIDINS: IDENTIFICATION AND ANALYSIS USING ION MOBILITY MASS SPECTROMETRY

1:45 PM – 2:00 PM  O-58  
**Vaclav Vetvicka** (University of Louisville)  
ANTI-STRESS ACTION OF AN ORALLY-GIVEN COMBINATION OF RESVERATROL, BETA-GLUCAN, AND VITAMIN C

2:00 PM – 2:15 PM  O-59  
**Zhibin Liang** (University of Hawaii at Manoa)  
COMPUTER-AIDED DRUG DISCOVERY OF SELECTIVE GSK3B INHIBITORS INSPIRED BY NATURAL PRODUCTS FOR ALZHEIMER’S DISEASE

2:15 PM – 2:30 PM  O-60  
**Stephen Teo** (University College London)  
ANTIBACTERIALS FROM THE TROPICAL RAIN FORESTS OF BORNEO

2:30 PM – 2:45 PM  O-61  
**Ean-Jeong Seo** (Johannes Gutenberg University)  
BOTH PHENOLIC AND NON-PHENOLIC GREEN TEA FRACTIONS INHIBIT MIGRATION OF CANCER CELLS

2:45 PM – 3:00 PM  O-62  
**Tehane Ali** (The Ohio State University)  
IDENTIFICATION OF NEW AND BIOACTIVE COMPOUNDS FROM FERMENTATION OF THE ENDOPHYTIC FUNGUS *PENICILLIUM CONCENTRICUM*

3:00 PM – 3:15 PM  O-63  
**Richard Tehan** (Oregon State University)  
EVOLUTIONARY METABOLOMICS IN TOLYPOCLADIDIUM FUNGI TO GUIDE NATURAL PRODUCTS DISCOVERY

3:15 PM – 3:30 PM  O-64
Yixuan Xia (Hong Kong Baptist University)
ANTICANCER EFFECTS OF MILIUSANES ON COLORECTAL CANCER CELLS

3:45 PM – 5:30 PM  ASP General Meeting – Grand Ballroom II

6:00 PM – 7:00 PM  Closing Reception – Grand Ballroom Foyer

7:00 PM – 10:00 PM Closing Ceremony and Banquet – Grand Ballroom I and II
(Ticketed Event)