



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
Jaelyn M. Winter (University of Utah)
IDENTIFICATION OF THE MANGICOL BIOSYNTHETIC GENE
CLUSTER IN FUSARIUM EQUISETI CNC-477 AND
CHARACTERIZATION OF ITS SESTERTERPENE SYNTHASE

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 ARYLNAPHTHALENE 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
PLASMIDIUM-SELECTIVE PROTEASOME INHIBITORS AS
ANTIMALARIAL AGENTS BASED ON CARMAPHYCIN 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 mTOD, 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

- 3:10 PM – 3:30 PM O-26
Mitzi Nagarkatti (University of South Carolina)
 INDOLE-3-CARBINOL ATTENUATES COLITIS THROUGH
 ALTERATIONS IN GUT MICROBIOTA AND METABOLIC
 PATHWAYS
- 3:30 PM – 3:50 PM O-27
Teresa Horm (Unigen)
 AMLEXIN, A BOTANICAL COMPOSITION, DEMONSTRATES
 EFFICACY IN MULTIPLE MODELS OF ARTHRITIS DISEASE
 PROGRESSION AND IN A HUMAN CLINICAL TRIAL
- 3:50 PM – 4:10 PM O-28
Debasis Bagchi (University of Houston)
 CLINICAL EVALUATION OF A STANDARDIZED PRUNUS
 DOMESTICA EXTRACT ON BENIGN PROSTRATE HYPERPLASIA
 (BPH) IN MALE VOLUNTEERS

Grand Ballroom II

Session M-PM4 - Fungal Natural Products

Chair: James Gloer

- 2:50 PM – 3:10 PM O-29
Andrea Stierle (University of Montana)
 THE BERKELEYLACTONES, ANTIBIOTIC MACROLIDES FROM
 FUNGAL COCULTURE
- 3:10 PM – 3:30 PM O-30
Christine Salomon (University of Minnesota)
 ANTIFUNGAL DISCOVERY FOR THE TREATMENT OF WHITE
 NOSE SYNDROME (WNS) IN BATS
- 3:30 PM – 3:50 PM O-31
Sandra Loesgen (Oregon State University)
 BIOTRANSFORMATION OF THE HDAC INHIBITOR VORINOSTAT
 YIELDS NEW ANILINE –CONTAINING FUNGAL METABOLITES
- 3:50 PM – 4:10 PM O-32
Andrew Robles (UT Health San Antonio)
 IDENTIFICATION AND MECHANISTIC STUDIES OF A FUNGAL
 METABOLITE WITH SELECTIVE CYTOTOXIC ACTIVITY
 AGAINST EWING SARCOMA CELLS
- 4:10 PM – 6:30 PM **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) METABOLOMIC 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*

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 *TOLYPOCLADIUM* 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)