



**SPANDIDOS
PUBLICATIONS**



**WORLD
ACADEMY
OF SCIENCES**



**28-30 March 2019
Tawana Hotel
Bangkok, Thailand**

23rd International Symposium on Molecular Medicine

**Co-organizer:
SEIKO SCIENCES**



Scientific Program

GENERAL INFORMATION

SYMPOSIUM VENUE

Tawana Hotel, Bangkok, Thailand

REGISTRATION DESK:

Thursday	28 March	08.00 - 13.00 and 15.00 - 17.00 hrs
Friday	29 March	08.00 - 13.00 and 15.00 - 17.00 hrs
Saturday	30 March	08.00 - 13.00 and 15.00 - 17.00 hrs

REGISTRATION FEE

Active participant	Euro 200
Accompanying person	Euro 150

The registration fee includes:

- Coffee/Tea
- Welcome Dinner
- Thai Dinner
- Gala Dinner

SOCIAL PROGRAM

WELCOME DINNER

Thursday 28 March, 2019 at 18:00 hours

THAI DINNER

Friday 29 March, 2019 at 18:00 hours

GALA DINNER

Saturday 30 March, 2019 at 18:00 hours

Scientific Program

BIOCHEMISTRY/MOLECULAR ONCOLOGY/MicroRNAs

09:00-11:00

Thursday, March 28

Chair Persons: G. Glady, L. Lipovich, C. Romero

101. MicroRNAs: Key regulators of cancer immunoediting. **G. Glady** (Colmar, France) (20')
102. Long non-coding RNAs as therapeutic tools in cancer nanotherapy. **G. Glady** (Colmar, France) (20')
125. Long non-coding RNA genes as disease causes and therapeutics targets. **L. Lipovich**, P. Thepsuwan, E.L. Kleinbrink, A.S. Goustin, J. Cai, D. Ju, J.B. Brown (Detroit, MI; Berkeley, CA, USA) (20')
131. The up-regulation of oncosuppressor microRNAs decreases the proliferation, migration and invasion of epithelial ovarian cancer cells. A. Hernandez, I. Torres, M. Garrido, M. Vega, **C. Romero** (Santiago, Chile) (20')
109. RNA *trans*-splicing based suicide gene therapy targeting virus infection and cancer. S. Poddar, P.S. Loh, Z.H. Ooi, F. Osman, X. Jiang, C. Ingemarsdotter, A.M. Lever, **V. Patzel** (Singapore; Cambridge, UK) (20')
103. Global transcription profiling of the regulation of estrogen receptor α and β on bone. **B. Peng**, X. Li, L. Yang (Guangzhou, P.R. China) (20')

COFFEE/TEA BREAK

11:00-11:30

MOLECULAR ONCOLOGY

11:30-13:00

Thursday, March 28

Chair Persons: P. Gál, V.V. Sumbayev

158. Gal-8 favors VEGF-induced angiogenesis *in vitro* and *in vivo*. **P. Gál**, L. Varinská, L. Fáber, E. Petrovová (Košice; Bratislava, Slovak Republic) (20')
162. Tim-3-galectin-9 secretory pathway as a biochemical mechanism underlying the capability of human malignant cells to escape host immune surveillance and thus determining fundamentally novel approaches of cancer immunotherapy. **V.V. Sumbayev** (Kent, UK) (20')
153. Co-localization study of Tim-3 and Gal-9 complex by Western blot analysis, immunofluorescence and flow cytometry. **E. Fasler-Kan**, V. Sumbayev, S.M. Berger (Bern, Switzerland; Kent, UK) (20')
159. Galectins in skin wound repair and regeneration. **T. Vasilenko**, A. Vrzgula, V. Pribula, K. Smetana Jr, H.-J. Gabius, P. Gál (Košice; Bratislava, Slovak Republic; Prague, Czech Republic; Munich, Germany) (15')
160. Conditioned media from dermal fibroblasts and CAFs alter T cell migration and proliferation *ex vivo*. **M. Čoma**, P. Szabo, K. Smetana Jr, P. Gál (Košice; Bratislava, Slovak Republic; Prague, Czech Republic) (15')

ONCOLOGY/GENETICS/AGING

15:00-17:00

Thursday, March 28

Chair Persons: C. Isidoro, D.N. Dhanasekaran

132. Genetic and epigenetic control of glycolysis and the impact on epithelial to mesenchymal transition in ovarian cancer cells. C. Vidoni, A. Ferraresi, L. Vallino, M. Chinthakindi, S. Thongchot, E. Secomandi, D.N. Dhanasekaran, **C. Isidoro** (Novara, Italy; Oklahoma, OK, USA) (25')
139. Anti-inflammatory agents induce apoptosis and autophagy-dependent cell death in opisthorchiasis-associated cholangiocarcinoma cells. **N. Namwat**, S. Thongchot, C. Isidoro (Khon Kaen, Thailand; Novara, Italy) (15')
140. Targeting the cross-talk between cancer-associated fibroblasts and cholangiocarcinoma cells: Therapeutic implications. **S. Thongchot**, C. Vidoni, A. Ferraresi, W. Loilome, P. Yongvanit, N. Namwat, C. Isidoro (Novara, Italy; Khon Kaen, Thailand) (15')
138. T cell-based immunotherapy in cholangiocarcinoma. **M. Junking**, C. Thepmalee, J. Grainok, A. Panya, P.-T. Yenchitsomanus (Bangkok; Chiang Mai, Thailand) (15')
151. Role of coding and non-coding genetic networks in ovarian cancer genesis and progression. J.H. Ha, R. Radhakrishnan, M. Jayaraman, Y.S. Song, C. Isidoro, **D.N. Dhanasekaran** (Oklahoma City, OK, USA; Novara, Italy; Seoul, Republic of Korea) (25')
150. Mechanisms of healthspan and lifespan of natural products in *Caenorhabditis elegans*. C. Duangjan, P. Rangsinth, X. Gu, P.M. Iyer, C. Isidoro, M. Wink, **T. Tencomnao** (Bangkok, Thailand; Dalian, P.R. China; Novara, Italy; Heidelberg, Germany) (25')

WELCOME DINNER

18:00-22:00

Thursday, March 28

POLYAMINES/MOLECULAR MEDICINE

09:00-11:00

Friday, March 29

Chair Persons: E. Agostinelli, L. Vardy

142. Polyamines: Critical regulators of the epidermis. **L. Vardy** (Singapore) (30')
122. Novel nanohybrid of catalytically active bovine serum amine oxidase and tannic acid modified magnetic nanoparticles. M. Magro, A. Venerando, D. Baratella, S. Molinari, J. Ugolotti, G. Salviulo, Y. Kanamori, E. Agostinelli, **F. Vianello** (Padua; Rome, Italy; Olomouc, Czech Republic) (20')
147. Oxidation of spermine by BSAO induces permeability transition in hepatoma cell mitochondria. A new physiological strategy for apoptosis induction in tumor cells. **A. Toninello**, S. Grancara, L. Dalla Via, A.N. Garcia-Argaez, Y. Kanamori, S. Merali, C. Barrero, E. Agostinelli (Padova; Roma, Italy; Philadelphia, PA, USA) (20')
152. Enzymatic spermine metabolite induce apoptosis in neuroblastoma cells associated with increase of p53, caspase-3 and miR-34a. **Y. Kanamori**, A. Finotti, L. Di Magno, G. Canettieri, S. Ohkubo, F. Timeus, J. Gasparello, R. Gambari, E. Agostinelli (Rome; Ferrara; Turin, Italy) (20')
141. Development of foods that upregulate gut polyamine production by controlling the metabolism of commensal gut bacteria in healthy mice and humans. **M. Matsumoto** (Tokyo, Japan) (30')

COFFEE/TEA BREAK

11:00-11:30

POLYAMINES/MOLECULAR MEDICINE

11:30-13:50

Friday, March 29

Chair Persons: T. Oka, S. Fujiwara

126. Unique property of branched-chain polyamine in hyperthermophile. **S. Fujiwara**, W. Fukuda (Sanda, Japan) (30')
128. Efficient approach to produce agmatine using *Aspergillus oryzae*. **N. Akasaka**, S. Kato, W. Fukuda, S. Fujiwara (Sanda, Japan) (20')
144. Polyamines in filamentous fungi: The role in secondary metabolites production. G. Nuraeva, **A. Zhgun** (Moscow, Russia) (20')
148. Unique amine histamine a polyamine's sister. **W.A. Fogel** (Lodz, Poland) (20')
156. The lymphocytes of brain glioma patients excrete polyamine oxidation enzymes after phytohemagglutinin stimulation **E. Neborak**, N. Gridina, U.V. Ushenin, S. Syatkin, K. Sungrapova, R. Sokuev, Y. Guschina (Moscow, Russia; Kiev, Ukraine) (20')
157. Investigation of the non-coding RNAs from spermine oxidase transcript in different mouse genetic systems. **G. Baroli**, J.F. Reinoso-Sánchez, A. Ferri, C. Valle, G. Duranti, R. Ceci, T. Murray-Stewart, R.A. Casero Jr, M. Cervelli, P. Mariottini (Rome, Italy; Baltimore, MD, USA) (20')
170. Identification and characterization of two spermidine synthase in the marine diatom *Phaeodactylum tricornutum*. **H.-Y. Lin**, C.-T. Lee, C.-H. Liu, M.-J. Xu, H.-J. Lin (Keelung, Taiwan, R.O.C.) (10')

MOLECULAR PATHOGENESIS/TOXICOLOGY/ONCOLOGY

15:00-17:20

Friday, March 29

Chair Persons: A. Tsatsakis, D. Kouretas, A. Antonelli

104. Toxicology for real-life risk simulations (RLRS): Another challenge for precision medicine. **A. Tsatsakis** (Heraklion, Greece) (20')
149. Assessment of the antioxidant profile from different Greek olive oil varieties. **D. Kouretas** (Larisa, Greece) (20')
169. Cancer immunotherapies and endocrine autoimmune disorders. **A. Antonelli**, S.M. Ferrari, G. Elia, F. Ragusa, P. Fallahi (Pisa, Italy) (20')
116. The *Pemphigus Vulgaris* antigen desmoglein-3 acts as an anti-stress protein by counteracting p53 via YAP in keratinocytes. A. Rehman, Y. Cai, C. Hünefeld, H. Jedličková, Y. Huang, M.T. Teh, J. Uttagomol, A. Kang, G. Warnes, U. Ahmad, K. Zhou, C. Harwood, D. Bergamaschi, E.K. Parkinson, M. Röcken, I.R. Hart, **H. Wan** (London, UK; Guiyang, P.R. China; Tübingen, Germany; Brno, Czech Republic) (20')
112. 2,5-hexanedione exerts neurotoxicity effect via oxidative injury. B. Qi, C. Shi, J. Wang, J. Meng, **S. Xu** (Xianyang, P.R. China) (15')
121. Dipyrromethene boron difluoride compound selectively induced anti-proliferative inhibition on SMMC-7721 cancer cells by targeting LDH-A. **D. Boison**, M.B. Adinortey, G. Jing, Q.-Y. Chen (Zhenjiang, P.R. China; Cape Coast, Ghana) (15')
164. New serum biomarkers for hepatocellular carcinoma and metastases in liver - PIVKA II and hyaluronic acid. **M. Karlikova**, O. Topolcan, R. Kucera, J. Fichtl, V. Treska, S. Svobodova, J. Zehleova, J. Engova, R. Fuchsova (Pilsen, Czech Republic) (15')
168. Specific KRAS mutation types are associated with outcome of patients with metastatic colorectal cancer treated with bevacizumab. **O. Fiala**, T. Buchler, B. Melichar, Z. Bortliceck, V. Liska, O. Topolcan, R. Kucera, J. Finek (Pilsen; Prague; Olomouc; Brno, Czech Republic) (15')

THAI DINNER

18:00-22:00

TRADITIONAL CHINESE MEDICINE/MICROBIOLOGY

9:00-11:00

Saturday, March 30

Chair Persons: H. Luesch, M. Matsumoto, R. Kucera

123. The molecular pharmacology and biomedical applications of new marine natural products. **H. Luesch** (Gainesville, FL, USA) (20')
155. IL-6 controls resistance to radiation by suppressing oxidative stress via the Nrf2-antioxidant pathway in oral squamous cell carcinoma. **H. Nakayama**, Y. Matsuoka, H. Arita, R. Yoshida, A. Hirose, M. Nagata, K. Kawahara, J. Sakata, H. Nakashima, K. Yamana, S. Kawaguchi, S. Gohara, Y. Nagao (Kumamoto, Japan) (20')
146. Biobank and oncological samples collection. **R. Kucera**, O. Topolcan, M. Karlikova, J. Kinkorova (Pilsen, Czech Republic) (20')
114. Key genes and pathways in treatment for alopecia areata with janus kinase inhibitors. **X. Wang**, L. Lian, X. Qu, R. Zhang, Z. Zhang (Xianyang; Xi'an, P.R. China) (15')
115. Protective effects of bicyclol on bleomycin-induced pulmonary fibrosis in mice. **R. Fu**, F. You, P. Lan, M. Wang, J. Jin, X. Chen (Beijing, P.R. China) (15')
111. Fibrinopeptide A: Not only a biomarker of the activation of coagulation system, but also a promoter of atherosclerosis. **S. Xu**, C. Shi, J. Meng, H. Liu, B. Qi (Xianyang, P.R. China) (15')
110. Water extract of *Hydrangea paniculata* shows renal beneficial effect on c-BSA induced membranous nephropathy by immunosuppression, modulating lipid metabolism and anti-inflammatory. S. Zhang, **W. Wang**, Z. Li, D. Wang, J. Jin, N. Xue, F. Lai, X. Chen (Beijing, P.R. China) (15')

COFFEE/TEA BREAK

11:00-11:30

BIOMARKERS/MOLECULAR MEDICINE

11:30-13:00

Saturday, March 30

Chair Persons: L. Bravo, Y. Suzuki-Karasaki

118. From precision medicine to interculturality: 8-years experience in medical education in UPSJB-PERU. **L. Bravo**, J. Zavaleta, C. Vidal, C.V. Cubillas, J. Pinto, L. Usquiano (Lima, Peru) (20')
127. The role of mitochondrial calcium toxicity in tumor-selective toxicity. **Y. Suzuki-Karasaki**, M. Suzuki-Karasaki, M. Suzuki-Karasaki, T. Ochiai (Nasushiobara, Japan) (20')
117. DDIT4 as a new biomarker in cancer. **W. Fajardo**, L. Bravo, J. Zavaleta, W. Bryson-Malca, J. Pinto (Lima, Peru) (20')
119. Protective role of carbon monoxide (CO)/CO-releasing molecule against acute respiratory distress syndrome induced by hemorrhagic shock and resuscitation. **T. Takahashi**, Y. Kumada, H. Shimizu, H. Morimatsu (Okayama, Japan) (15')
120. Metformin decreases NGF-induced cell proliferation of ovarian cancer cells by modulation of c-MYC and β -catenin/TCF-Lef transcriptional activity and oncosuppressors micro-RNAs. **M.P. Garrido**, M. Valenzuela, C. Vallejos, R. Salvatierra, A. Hernández, M. Vega, A.F.G. Quest, C. Romero (Santiago, Chile) (15')

GENETICS/INFLAMMATION/EPIGENETICS

15:00-17:05
Saturday, March 30

Chair Persons: M. El-Salhy, M. Suzuki-Karasaki, J. Zamecnik

105. Fecal microbiote transplantation (FMT) for managing irritable bowel syndrome (IBS). **M. El-Salhy** (Stord; Bergen, Norway) (20')
107. Macrophage imbalance and inflammation as risk factors for rupture in saccular intracranial aneurysms. **J. Zamecnik**, M. Koblizek, M. Stratilova, V. Benes, A. Hejcl (Prague, Czech Republic) (20')
137. Cold atmospheric plasma-irradiated liquid: A novel tumor-selective anticancer liquid advantageous over plasma-activated medium. **M. Suzuki-Karasaki**, T. Ando, M. Suzuki-Karasaki, T. Ochiai, Y. Suzuki-Karasaki (Tochigi; Yamanashi, Japan) (20')
166. Targeting epigenetic vulnerabilities in medulloblastoma. S. Venkataraman, E. Danis, B. Veo, S. Forsmire, **R Vibhakar** (Aurora, CO, USA) (20')
136. Targeting of the epigenetic integrator UHRF1 in cancer cells by thymoquinone. **M. Alhosin** (Jeddah, Saudi Arabia) (15')
154. Antitumor activity of sesquiterpenoids by regulating STAT3 signaling pathway in human breast cancer cells. J. Chun, H. Ko, J.H. Lee, H.S. Kim, Y.-G. Suh, K.S. Ahn, **Y.S. Kim** (Seoul; Pocheon, Republic of Korea) (15')
145. Shift in fecal metabolites of inflammatory bowel disease patients under the fecal microbiota transplantation. **E. Zhgun**, Y. Kislun, A. Pavlenko, T. Kalachniuk, E. Ilina (Moscow, Russia) (15')

GALA DINNER

18:00-22:00

POSTER PRESENTATIONS

Chair Persons: S.-E. Lin, V. Patzel

106. Mutation consistency and sensitivity verification of EGFR RGQ PCR Kit in non-small cell lung cancer. **S.-E. Lin**, C.-W. Juan, S.-P. Huang, R.-N. Li, Y.-F. Liang (Kaohsiung, Taiwan, R.O.C.)
108. An efficient, modular and scalable mitochondrial delivery vector system for RNA and DNA. K. Chatterjee, H. Yu, J.W. Chiu, A. Ghosh, P.S. Loh, **V. Patzel** (Singapore; Cambridge, UK)
113. The endosomal recruitments of phosphorylated Akt augment mannose receptor-mediated ovalbumin translocation toward endosomes and facilitate dendritic cell cross-presentation. **Z.M. Xie**, J. Chen, Q. Li, F.G. Gao (Xiamen, P.R. China)
124. IL-1 β -induced IL-8 is suppressed by celastrol in triple negative breast cancer cells. **S.P. Jung**, S. Kim (Seoul, Republic of Korea)
129. Polydeoxyribonucleotide (PDRN) improves voiding function by suppressing inflammation and neuronal activity of interstitial cystitis/painful bladder syndrome in rats. **I.-G. Ko** (Seoul, Republic of Korea)
130. Comparison of the usefulness of brain perfusion SPECT, DAT-SPECT and MIBG scintigraphy for the diagnosis of dementia with Lewy bodies. **S. Kobayashi**, K. Makino, S. Hatakeyama, T. Iwamoto, K. Utsumi, C. Kawanishi (Sapporo; Kushiro; Sunagawa, Japan)
133. Adenosine A_{2A} receptor agonist alleviates global ischemia-induced short-term memory impairment by suppressing neuronal inflammation in the hippocampus in mongolian gerbils. **L. Hwang**, J.H. Han (Seoul, Republic of Korea)
134. Overexpression of miR-30a confers 5-FU resistance by inhibiting cell proliferation through targeting cyclin E2 in oral cancer. **K. Kawahara**, R. Yoshida, A. Hirose, Y. Matsuoka, H. Arita, J. Sakata, H. Nakayama (Kumamoto, Japan)
135. Molecular mechanisms underlie the anti-tumor activities induced by thymoquinone in human hepatocellular carcinoma cells. M.Y. Alhassani, S.F. Zohny, R.A. Sheikh, M.A. Hassan, A.A. Kalantan, **M. Alhosin** (Jeddah, Saudi Arabia)
143. Novel hydroxylamine-containing inhibitor of arginine decarboxylase. **M. Khomutov**, A. Zhun, A. Khomutov (Moscow, Russia)
161. Tumor microenvironment and its pharmacological modulation. **V. Gálová**, P. Gál, P. Szabo, B. Dvořánková, M. Kolář, K. Smetana Jr (Košice; Bratislava, Slovak Republic; Prague, Czech Republic)
163. Thymoquinone induces cell proliferation inhibition and apoptosis in acute myeloid leukemia cells: Role of apoptosis-related WT1 and BCL2 genes. M.G. Musalli, M.A. Hassan, R.A. Sheikh, A.A. Kalantan, S. Hosawi, M.A. Halwani, M. Zeyadi, **M. Alhosin** (Jeddah; Riyadh, Saudi Arabia)
165. Protocatechuic acid conjugated chitosan oligosaccharides induced ROS mediated apoptosis and cell cycle arrest in B16 ROS mediated apoptosis and cell cycle arrest in B16-F10 mouse melanoma cells. **T. Eom**, S.-K. Kim (Jeju; Busan, Republic of Korea)
167. Urine protein makers of bladder cancer identified by using reverse phase nano-high performance liquid chromatography/electrospray ionization tandem mass spectrometry. L.-B. Tan, Y.-C. Tyan, P.-C. Liao, C.-Y. Liu, K.-H. Hsen, **H.-R. Guo** (Tainan; Huwei, Taiwan, R.O.C.)