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Humboldt Kolleg

**“Breaking Paradigms: Towards a Multi-,
Inter- and Transdisciplinary Science”**

**In commemoration of the 250th
Anniversary of Alexander von Humboldt**

SCIENTIFIC PROGRAM

February 22th – 24th, 2019
Ibarra, Ecuador

Humboldt Kolleg

“Breaking paradigms: towards a Multi-, Inter- and Transdisciplinary science”
250th birthday of Alexander von Humboldt

Friday, February 22th, 2019

8:00 – 8:30	Registration
8:30 – 8:40	Opening words
8:45 – 9:25	<i>Keynote lecture</i> Prof. Dr. Fernando Albericio University of Barcelona, Spain University of KwaZulu Natal, South Africa <i>“Natural products: from ancestral to the new medicine”</i>
9:30 – 9:50	Dr. María Alejandra Arciniega Ceballos National Autonomous University of Mexico, Mexico <i>“Volcano seismology: field and experimental observations”</i>
9:55 – 10:15	Dr. Ana Angélica Cervantes National Autonomous University of Mexico, Mexico <i>“Biogeography of Acalyphoideae (Euphorbiaceae): a model to understand the Caribbean biodiversity”</i>
10:20 – 10:50	Coffee break
10:55 – 11:15	Dr. Claudia L. Trevino National Autonomous University of Mexico, Mexico <i>“The incredible journey of the sperm”</i>
11:20 – 11:40	Prof. Dr. Andrea Simone Stucchi de Camargo Álvarez Bernárdez Sao Paulo University, Brazil <i>“Efficient host-guest luminescent materials for photonic and biophotonic applications”</i>
11:45 – 12:05	Prof. Dr. Erika Banchio National University of Rio Cuarto, Argentina <i>“Aromatic Plants Inoculated with Plant Growth Promoting Rhizobacteria Increase Endogenous Phytohormones and the Combination of Inoculation and Exposition to MeJa and SA Influence the Interaction between Aromatic Plants and Rhizobacteria”</i>
12:10 – 13:30	Lunch
1:30 – 2:10	<i>Keynote lecture</i> Prof. Dr. Bernardo Frontana-Urbe National Autonomous University of Mexico, Mexico <i>“Polythiophenes, useful materials for building sensors and organic solar cells”</i>
2:15 – 2:35	Dr. Mauricio Cattaneo National University of Tucumán, Argentina <i>“Molecular systems for understanding multiredox processes”</i>
2:40 – 3:00	Prof. Dr. Eugenia María del Pino Veintimilla Pontifical Catholic University of Ecuador, Ecuador <i>“Gastrulation in marsupial frogs in comparison with other frogs”</i>
3:05 – 3:25	Dr. Katya Susana Romoleroux Pontifical Catholic University of Ecuador, Ecuador <i>“Advances in molecular and taxonomic studies of the genus Lachemilla (Rosaceae) in Latin America”</i>
3:30 – 5:00	Poster session

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Saturday, February 23th, 2019

8:30 – 9:10	<i>Keynote lecture</i> Prof. Dr. Michael Wink Heidelberg University, Germany <i>“Importance of antimicrobial natural products for the treatment of antibiotic-resistant pathogens-challenges and new strategic approaches”</i>
9:15 – 9:35	Dr. Joseph Nikolai Paez Chavez Higher Polytechnic School of the Litoral, Ecuador <i>“Mathematical Modelling of Chemical Information Processing Systems”</i>
9:40 – 10:00	Dr. Andrés Caicedo San Francisco University, Ecuador <i>“Mitochondria transplant and their applications in regenerative medicine”</i>
10:05 – 10:35	Coffee break
10:40 – 11:00	Prof. Dr. Michael Schrader University of Applied Science of Freising, Germany <i>“Lessons learned in peptidomics while teaching - an inverse Humboldtian feedback”</i>
11:05 – 11:25	Prof. Dr. Orestes Darío López Technical University of Ambato, Ecuador <i>“Impacto de las micro y nano estructuras en la absorción de ácidos grasos naturales”</i>
11:30 – 11:50	Prof. Dr. Christopher Rose Montreal University, Canada <i>“When the liver fails, the brain fails”</i>
12:00 – 1:30	Lunch
1:30 – 2:10	<i>Keynote lecture</i> Prof. Dr. Gerardo Corzo Burguete National Autonomous University of Mexico, Mexico <i>“Structural and functional properties of antimicrobial peptides”</i>
2:15 – 2:35	Dr. Nora Medrano-Mercado Greater University of San Simon, Bolivia <i>“Advances in Diagnostic Technologies”</i>
2:40 – 3:00	Dr. Fabricio Moreira Federal University of Minas Gerais, Brazil <i>“New biological targets for the treatment of drug addiction: focus on the brain endocannabinoid system”</i>
3:05 – 3:25	Dr. Cilene Oliveira Federal University of Santa Catarina, Brazil <i>“Basic antidepressant research: justify your alpha”</i>
3:30 – 5:00	Poster session

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Sunday, February 24th, 2019

8:30 – 9:10	<i>Keynote lecture</i> Prof. Dr. Michael Rychlik Technical University of Munich, Germany <i>“Modern food analysis: from stable isotope assays to foodomics”</i>
9:15 – 9:35	Prof. Dr. César Costa Vera National Polytechnic School, Ecuador <i>“Tecnologías de la Luz: láseres y espectroscopia en problemas patrimoniales, forenses, ambientales, industriales”</i>
9:40 – 10:00	Prof. Dr. Fernando B. Da Costa Sao Paulo University, Brazil <i>“Chemoinformatics tools in plant metabolomics: examples from the tropics”</i>
10:05 – 10:35	Coffee break
10:40 – 11:00	Dr. Bernardo de Souza Federal University of Santa Catarina, Brazil <i>“Can we predict colour? A path integral approach to excited state dynamics”</i>
11:05 – 11:25	Prof. Dr. Gonzalo Agustin Alvarez National University of Córdoba. NMR Spectroscopy and Imaging Laboratory at Bariloche Atomic Center, Bariloche, Argentina <i>“Quantum technologies in Nuclear Magnetic Resonance for sensing biological, chemical and physical processes at micro- and nano-scale”</i>
11:30 – 11:50	Prof. Sergio Ulloa Ohio University, USA <i>“Proximity effects in 2D materials”</i>
12:00 – 1:30	Lunch
1:30 – 2:10	<i>Keynote lecture</i> Prof. Dr. Michael Szardenings Fraunhofer Institute for Cell Therapy and Immunology, Germany <i>“Peptide based diagnostics for infectious disease”</i>
2:15 – 2:35	Dr. Giuliano Cesar Clososki Sao Paulo University, Brazil <i>“Selective synthesis of bioactive targets using magnesium amides”</i>
2:40 – 3:00	Dr. Susana Castro Obregon National Autonomous University of Mexico, Mexico <i>“Role of autophagy during both development and aging of the nervous system”</i>
3:05 – 3:25	Dr. Gabriel del Rio Guerra National Autonomous University of Mexico, Mexico <i>“Designing selective polypharmacological cell-penetrating peptides”</i>
3:30 – 3:50	Dr. Frank Alexis Yachay Tech University, Ecuador <i>“Strategic lines at Yachay Tech”</i>
4:00 – 5:00	Poster session
5:00 – 5:15	Closing words and official photo