

Proceedings of

3RD WORLD BIOTECHNOLOGY CONGRESS

December 03-04, 2018 Sao Paulo, Brazil



09:00-09:20 Registrations**09:20-09:40 Opening Ceremony****Keynote Forum****Introduction****09:40-10:10 Title: Challenges of international human biospecimen biobanking for biomedical research in the era of personalized medicine****Olga Potapova, Cureline Inc, USA****10:10-10:40 Title: Sugar is the new oil: Transitioning petroleum economy to bio-economy****Anuj Kumar Chandel, University of Sao Paulo, Brazil****Group Photo & Panel Discussion****Networking & Refreshment Break 10:40-11:00****Sessions: Agriculatural Biotechnology | Plant Biotechnology | Food Processing and Safety Engineering |****Pharmaceutical Biotechnology | Bioprocess & Industrial Biotechnology | Nano Biotechnology****Session Chair: Olga Potapova, Cureline Inc, USA****Session Co-chair: Nuretin Heybeli, Trakya University, Turkey****Session Intoduction****11:00-11:20 Title: Novel saccharification of lignocellulosic biomasses using “whole broth” enzymes: Towards on-site manufacturing (osm) of enzymes for production of 2nd generation ethanol from eucalyptus wastes in biorefinery configurations****Henrique M Baudel, Samerica Biomass Technologies, Brazil****11:20-11:40 Title: Mutation breeding in Malaysia****Sobri Bin Hussein, Malaysian Nuclear Agency, Malaysia****11:40-12:00 Title: Analysis of the expression of the SIMYB gene during the reproductive development of tomato (*Solanum lycopersicum*)****Jose Linares, Polytechnic University of Valencia, Spain****12:00-12:20 Title: The dichlorvos-ammonia method for visible detection of aflatoxigenic fungi from environments****Kimiko Yabe, Fukui University of Technology, Japan****12:20-12:40 Title: Antioxidant enzyme characterization in the liver of Mediterranean barbel (*Barbus meridionalis*) from Osor river (Catalonia)****Guluzar Atli, Girona University, Spain****12:40-13:00 Title: Lingual space of maximum size as an electromagnetic field of the human body: Health and disease - biotechnological factors****Helio Gomes da Silva, University of Taubate, Brazil****Panel Discussion****Lunch Break 13:00-14:00****14:00-14:20 Title: The effect of growth conditions on the active compounds found in medicinal plants**
Alexandra C H F Sawaya, University of Campinas, Brazil**14:20-14:40 Title: Production and evaluation of the starch and fiber from young bamboo culm for food and biotechnological applications****Maria Teresa Pedrosa Silva Clerici, University of Campinas, Brazil****14:40-15:00 Title: Mannosylerythritol lipids production by *Pseudozyma aphidis* UFMG-Y3468: A process optimization approach****Glaucia M Pastore, University of Campinas, Brazil****15:00-15:20 Title: Intra-articular use of a unique combination of a medical device composed of Glucosamine and Chondroitin sulfate with Hyaluronic acid****Nuretin Heybeli, Trakya University, Turkey****15:20-15:40 Title: Freeze-dried wafers for anti-inflammatory topical delivery**
Laura de Oliveira Nascimento, University of Campinas, Brazil**Panel Discussion****Networking & Refreshment Break 15:40-16:00**

16:00- 16:20 **Title: The influence of seasons and ripening time on yeast communities of a traditional Brazilian cheese**

Valeria M Cardoso, Federal University of Minas Gerais, Brazil

16:20-16:40 **Title: Virus-like particles and oncogenic virus (HPV-HCV) applications in biotechnology**
Rachel Siqueira de Queiroz Simões, Oswaldo Cruz Institute, Brazil

Panel Discussion

Day 2 December 04, 2018

Conference Hall

Keynote Forum

09:00-09:30 **Title: Production of a universal plant-based substrate system for cellulase activity assays**
Kathleen Hefferon, University of Toronto, Canada

09:30-10:00 **Title: Micro RNAs from bench to bedside**
Suresh K Alahari, LSUHSC School of Medicine, USA

10:00-10:30 **Title: Molecular mechanisms of sugarcane response to abiotic stress**
Sonia Marli Zingaretti, Ribeirao Preto University, Brazil

Panel Discussion

Networking & Refreshment Break 10:30-10:50

Sessions: Animal Biotechnology | Genetics and Tissue Science & Engineering | Medical Biotechnology | Microbial Biotechnology | Molecular Biology

Session Chair: Alexandre Libanio Silva Reis, Federal University of Pernambuco, Brazil

Session Co-chair: Sonia Marli Zingaretti, Ribeirao Preto University, Brazil

Session Introduction

10:50-11:10 **Title: Evaluating the feasibility of the direct L-Ascorbic acid synthesis using a one-stage process and a single strain of *Pleurotus ostreatus***

Jorge L Betancurt, National University of Colombia, Columbia

11:10-11:30 **Title: The future of the biopharmaceutical and biotechnology market and research in Brazil with the next president (2019-2023) – getting ready**

Wilker Ribeiro, Reger Institute, Brazil

11:30-11:50 **Title: Attenuated *Salmonella* strains have showed great potential as live vectors with broad applications in veterinary medicine**

Luciana Helena Antoniassi da Silva, University of Campinas, Brazil

11:50-12:10 **Title: Calcium carbonate from bacteria isolated from soils**

Sandra Patricia, Pedagogical and Technological University of Colombia, Colombia

12:10-12:30 **Title: Alkaline hydrogen pretreatment lignocellulosic biomass: Status, perspectives and energy policy**

Alexandre Libanio Silva Reis, Federal University of Pernambuco, Brazil

12:30-12:50 **Title: Paper spray tandem mass spectrometry: Applications to drugs determination in body fluids**

Heloa Santos, University of Goias, Brazil

Panel Discussion

Lunch Break 12:50-13:50

13:50-14:10 **Title: Nanoparticles mediate dsRNA delivery to control the crop insect pest cotton boll weevil, *anthonomus grandis***

Rayssa A Garcia, EMBRAPA, Brazil

14:10-14:30 **Title: Utilization of tissue culture and laser capture (LCM) as acquire innovative biotech strategies for nematode control in cotton**

Sanaa Haroon, Fayoum University, Egypt

14:30-14:50 **Title: New trends in the treatment of grade II furcation defects using second generation platelet concentrates**

Juan Pablo Pava Lozano, National University Columbia, Columbia

Video Presentation

14:50-15:10 **Title: Fermentation conditions for the production of flavonoids from *Streptomyces hygroscopicus* AVS7 by statistical approaches**
Vellingiri Manon Mani, Hindusthan College of Arts and Science, India

Poster Presentations 15:10-16:40

Poster Judges: Anuj Kumar Chandel, University of Sao Paulo, Brazil
Sonia Marli Zingaretti, Ribeirao Preto University, Brazil

- WBC P01** **Title: Thermo-Biorrefineries: A promising concept for production of bio-electricity, 2nd generation ethanol and renewable chemicals in Portugal**
Henrique M Baudel, America Biomass Technologies, Brazil
- WBC P02** **Title: Characterization of cubosomes, nanoparticles for drug delivery applications, and its interaction with miltefosine, a model drug**
Bárbara Malheiros, University of Sao Paulo, Brazil
- WBC P03** **Title: Genetic characterization of *Rubus glaucus* benth progenitors through SNPs and SSR**
Ana Maria Lopez Gutierrez, Technological University of Pereira, Colombia
- WBC P04** **Title: Morphologic and genetic characterization of *Botrytis cinerea* Pers. isolates responsible for gray mold in *Rubus glaucus* benth in Columbia**
Liliana Isaza Valencia, Technological University of Pereira, Colombia
- WBC P05** **Title: Commercial opportunities behind genetic and climatic characterization with management culture approaches of *Heliconia* species in central-occident region of Colombia**
Liliana Isaza Valencia, Technological University of Pereira, Colombia
- WBC P06** **Title: Development of oil-in-water multilayer emulsion as an effective encapsulation systems of astaxanthin**
Eduardo Morales Antonio, University of La Frontera, Chile
- WBC P07** **Title: Effect of the degree of cross-linking in nanosponges on the efficiency of piperine encapsulation**
Juan Pablo Guineo Alvarado, University of La Frontera, Chile
- WBC P08** **Title: Study of the conditions of encapsulation of piperine in microwave-assisted nanosponges**
Jeyson Alan Hermosilla Gajardo, Universidad de la Frontera, Chile
- WBC P09** **Title: Study of nanosponge based on Cyclodextrin and Carbonate as a nanoencapsulation system of lipophilic compound**
Sofia Belen González Lezana, Universidad de la Frontera, Chile
- WBC P10** **Title: Synthesis, structural characterization, and antioxidant activity of alkyltrimethylammonium thiotungstate**
Horta Marron, Autonomous University of Baja California, Mexico
- WBC P11** **Title: Encapsulation of carotenoid in nanofibers by emulsion electrospinning: Termal and oxidative stability**
Camila Medina, University of La Frontera, Chile
- WBC P12** **Title: Augmentation of the immune response of Atlantic salmon through the oral delivery of alginate-encapsulated SRS antigens**
Daniela Sotomayor Gerding, University of La Frontera, Chile
- WBC P13** **Title: Production of Poly-3-hydroxybutyrate microfibers and gelatin nanofibers as scaffolding material using electrospinning process**
Claudia Sanhueza, University of La Frontera, Chile
- WBC P14** **Title: Feasible technical and economic solutions for EPA production by *pythium irregulare* using vinasse, wastewater, as main raw material**
Bruna S Fernandes, University of Campinas, Brazil

Panel Discussion

Networking & Refreshment Break 16:40-17:00

Thanks Giving & Closing Ceremony