

Symposium I

TUESDAY OCTOBER 10TH



2:50 P.M. – 4:20 P.M. – ORAL SESSION I1

Chairperson: Tânia Pasa

Room: PETROBRAS

- 2:50 – 3:20 P.M.** SELF AND MUTUAL DIFFUSION IN SOLUTIONS OF NANOSIZE BIOLOGICAL ELECTROLYTES **(I623, Invited)**. Robert Pecora (Stanford University, USA)
- 3:20 – 3:35 P.M.** QUANTITATIVE CORRELATION BETWEEN MORPHOLOGY AND RELEASE RATE OF LIPOPHILIC IONIZABLE DRUG MODELS LOADED-PHBHV/PCL MICROPARTICLES **(I537)**. Adriana Raffin Pohlmann (UFRGS), Silvia Stanisquaski Guterres (UFRGS), Maria Inês Ré (IPT), Eliézer Jäger (UFRGS) and Fernanda Poletto (UFRGS)
- 3:35 – 3:50 P.M.** SYNTHESIS OF Ca²⁺ ALUMINOSILICATE CRYSTALS **(I601)**. Carlos Perez Bergmann (UFRGS/IGCB), Luciano Avallone Bueno (IGCB), Etney Neves (IGCB) and Boris Pevzner (RAS/IGCB)
- 3:50 – 4:05 P.M.** NANO- AND MICROPARTICLES OF CHONDROITIN SULPHATE-BASED HIDROGEL-SYNTHESIS AND CHARACTERIZATION **(I608)**. Adley Forti Rubira (UEM), Marcos Rogério Guilherme (UEM), Adriano Valim Reis (UEM) and Edvani Curti Muniz (UEM)
- 4:05 – 4:20 P.M.** SINGLE POLYMER MOLECULES IN A PROTEIN NANOPORE IN THE LIMIT OF STRONG POLYMER-PORE ATTRACTION **(I613)**. Claudio G. Rodrigues (UFPE), Oleg V. Krasilnikov (UFPE) and Sergey M. Bezrukov (NIH) ■



4:20 P.M. – 4:40 P.M. – COFFEE BREAK



5:50 P.M. – 7:20 P.M. – ROUND- TABLE

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WEDNESDAY OCTOBER 11TH



8:15 A.M. – 10:15 A.M. – ORAL SESSION I2

Chairperson: Mariano Venanzi

Room: PETROBRAS

- 8:15 – 8:45 A.M.** NANOSTRUCTURED MATERIALS FOR THE ENVIRONMENTAL CONTROL OF CELL AND MICROORGANISM GROWTH **(I622, Invited)**. Enrico Traversa (University of Rome, Italia)

- 8:45 – 9:00 A.M.** NANOSTRUCTURED FILMS EMPLOYED AS SENSING UNITS IN AN ELECTRONIC TONGUE SYSTEM **(I512)**. Ricardo Aroca (WINDSOR), Antonio Aprigio Curvelo (IQSC), PATRICIA Alexandra Antunes (UNESP/FCT), Daniel Pasquini (IQSC), Carlos Leopoldo Constantino (UNESP/FCT), Antonio Riul Junior (UNESP/FCT) and Bruno Alves Silva (UNESP/FCT)

- 9:00 – 9:15 A.M.** TREHALOSE AS A GOOD LINKING AGENT BETWEEN PHOSPHOLIPID LAYERS **(I533)**. Maria Elisabete Darbello Zaniquelli (USP/FFCLRP/DQ), Francisco de Assis Leone (USP/FFCLRP/DQ), Rosa dos Prazeres Melo Furriel (USP/FFCLRP/DQ), João Atílio Jorge (USP/FFCLRP/DF), Luciano Caseli (USP/FFCLRP/DQ) and Cesar Vanderlei Nascimento (USP/FFCLRP/DQ)

- 9:15 – 9:30 A.M.** THERMAL STABILITY OF SODIUM CASEINATE FILMS CROSSLINKED WITH FORMALDEHYDE **(I585)**. Renata Avila Ozorio (UFSC), Pedro Luiz Manique Barreto (UFSC) and Jefferson Rotta (UFSC)

- 9:30 – 9:45 A.M.** SEMI EMPIRICAL AND DENSITY FUNCTIONAL THEORY CALCULATIONS AND MONTE CARLO SIMULATIONS ON THE STRUCTURE OF CHLORPROMAZINE IN THE GAS PHASE AND AQUEOUS SOLUTIONS **(I590)**. Marcel Tabak (IQSC-USP), Kaline Coutinho (IFUSP), Leandro Ramos Barbosa (IFUSP) and Rosangela Itri (IFUSP)

- 9:45 – 10:15 A.M.** MICELLE/PROTEIN COMPLEXES: A ROUTE TOWARDS DRUG DELIVERY **(I624,Invited)**. Redouane Borsali (CNRS) ■



10:15 A.M. - 10:30 A.M. – COFFEE BREAK



10:30 A.M. – 12:30 P.M. – ORAL SESSION I3

Chairperson: Magali Rodrigues Osvaldo

Room: PETROBRAS

- 10:30 – 11:00 A.M.** IMPEDANCE BASED BIOCHIP TO MONITOR INTERACTIONS BETWEEN CELLS **(I582,Invited)**. P. Stallinga (University of the Algarve), L. Cancela (University of the Algarve), R. B. Leite (University of the Algarve), Henrique Leonel Gomes (University of the Algarve) and R. Afonso (University of the Algarve)


- 11:00 – 11:15 A.M.** SOLID-STATE FLUORESCENCE OF A 3,4,9,10-PERYLENETETRACARBOXYLIC DIIMIDE DERIVATIVE INCORPORATED IN THE PORES OF MESOPOROUS SILICA GEL MCM-41. **(I520)**. Antonio Souza Araújo (UFRN), Glauber Turolla Fernandes (CTGás), Francisco Laerte Castro (CTGás), Jean Gustavo Santos (UMC), Valter José Fernandes (UFRN), Mário José Politi (USP) and Sergio Brochsztain (UMC)

11:15 – 11:30 A.M. PH-DEPENDENT REACTIVITY OF MICROPEROXIDASE-11 ENTRAPPED IN MCM-41 **(I548)**. Sergio Brochsztain (UMC), Mário José Politi (IQ-USP), Valter José Fernandes (UFRN), Antonio Souza Araújo (URFN), Francisco Laerte Castro (CTGás), Glauber Turolla Fernandes (CTGás), Jean Gustavo Santos (UMC), Tatiana Prieto (UMC), Juliana Casares Araújo (UMC) and Iseli Lourenço Nantes (UMC)

11:30 – 11:45 A.M. INVESTIGATIONS ON THE EFFECT OF CUCURBIT[6]URIL ON SEED GERMINATION **(I581)**. Grégoire Jean-François Demets (USP-FFCLRP) and Rodrigo Francelin (USP-FFCLRP).

11:45 – 12:00 P.M. CAPACITANCE MEASUREMENTS AS THE DETECTION TOOL FOR BIOSENSING **(I538)**. Maysa F Zampa (UFPI), Carla Eiras (UFPI), Ana C.F. Brito (UFPI), José Ribeiro Santos Jr. (UFPI), Valtencir Zucolotto (IFSC), Osvaldo Novais Oliveira Jr. (IFSC)

12:00 – 12:30 P.M. CONSTRUCTION OF CARRIER LIPOSOME SYSTEMS FOR ALKALINE PHOSPHATASE OBTAINED FROM CULTURE OF HUMAN ALVEOLAR BONE CELLS **(I510, Invited)**. Pietro Ciancaglini (FFCLRP, USP), Pietro Ciancaglini (USP), Ana Maria Simão (USP), Márcio M. Beloti (USP), Adalberto L. Rosa (USP), Paulo T. de Oliveira (USP) and João M. Pizaura (UNESP). ■

 **12:30 P.M. – 2:00 P.M. – LUNCH**

 **2:00 P.M. – 2:45 P.M. – PLENARY LECTURE**
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 **2:50 P.M. – 4:20 P.M. – ORAL SESSION I4**
Chairperson: Rosângela Itri
Room: PETROBRAS

2:50 – 3:20 P.M. MASTERING THE COMPLEXITY OF DNA NANOCONSTRUCTIONS. **(Invited)** Bruno Samori (University of Bologna, Italy)

3:20 – 3:35 P.M. TEMPLATE ASSISTED SYNTHESIS OF POROUS NANOFIBROUS CELLULOSE MEMBRANES FOR TISSUE ENGINEERING **(I576)**. Regina Vasconcellos Antônio (UFSC), Ana Kelly Pitlovanciv (UFSC), Claudimir Antonio Carminatti (UFSC), Derce de Oliveira Souza Recouvreur (UFSC), Carlos Renato Rambo (UFSC) and Luismar Marques Porto (UFSC)

3:35 – 3:50 P.M. IN SITU AG NANOPARTICLE SYNTHESIS USING A BACTERIAL CELLULOSE SUPPORT **(I570)**. Marc Verelst (CEMES-UPR-UTIII), Younes Messaddeq (LAMF-UNESP-IQ), Rodrigo Marques (LAMF-UNESP-IQ), Hernane Barud (LAMF-UNESP-IQ), Celina Barrios (LAMF-UNESP-IQ), Jeannette Dexpert (CEMES-UPR-UTIII) and Sidney Ribeiro (LAMF-UNESP-IQ)

3:50 – 4:20 P.M. CONTRIBUTIONS FROM THE INTERFACE AND SURFACE SCIENCE TO THE UNDERSTANDING OF BIOLOGICAL PROCESSES **(I625, Invited)**. Maria Elena Vela (Universidad de la Plata, Argentina) ■

 **4:20 P.M. – 4:40 P.M. – COFFEE BREAK**

 **4:20 P.M. – 5:45 P.M. – POSTER SESSION PI1**
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 **5:50 P.M. – 7:00 P.M. – PLENARY SESSION**
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 **20:30 P.M. – Conference Dinner** ✨
Local: Swimming Pool Lounge

THURSDAY OCTOBER 12TH

 **8:15 – 10:15 A.M. – ORAL SESSION I5**
Chairperson: Maria Elisabete D. Zaniquelli
Room: PETROBRAS

8:15 – 8:45 A.M. BIOCHIPS: TECHNOLOGIES AND APPLICATIONS **(I616, Invited)**. Alberto Pasquarelli (University of Ulm, Germany)

8:45 – 9:00 A.M. SUPRAMOLECULAR STRUCTURES IN LAYER-BY-LAYER FILMS: A NEW APPROACH FOR ENZYME IMMOBILIZATION **(I532)**. Osvaldo Novais Oliveira Jr. (IFSC), Christopher Brett (DQ), Francisco Nart (IQSC), Valtencir Zucolotto (IFSC), M.Emilia Ghica (DQ) and Frank Nelson Crespilho (IFSC).

9:00 – 9:15 A.M. FROM SUPRAMOLECULAR CHEMISTRY AND SELF-ASSEMBLY PROCESS **(I572)**. Vincenzo Balzani (UNIBO), James Fraser Stoddart (UCLA), Jovica Dimitri Badjic (UCLA), Célia Machado Ronconi (UFRJ), Serena Silvi (UNIBO) and Credi Alberto (UNIBO)

9:00 – 9:30 A.M. EVOLUTION OF COLLOIDAL IRON OXIDES NANOPARTICLES UNDER THERMAL TREATMENT **(I594)**. Marcelo Knobel (IFGW-UNICAMP), Tatiana Midori Martins (IFGW-UNICAMP), Paula Sílvia Haddad (LNLS) and Daniela Zanchet (LNLS) ■

 **9:30 A.M. – 10:45 A.M. – POSTER SESSION PI2**

 **10:15 P.M. – 10:30 P.M. – COFFEE BREAK**

 **10:45 A.M. – CLOSING PLENARY SESSION**