

December, 8

11:00-14:00 – Registration

14:00-14:45 – Open Ceremony

14:45-15:45 – SPB Plenary Lecture.

CHAIR: JOSÉ LEAL

CP.1 EVOLVABILITY AND HIERARCHY IN REWIRED BACTERIAL GENE NETWORKS
Mark Isalan, Caroline Lemerle, Konstantinos Michalodimitrakis, Barbara Di Ventura, Pedro Beltrão, Carsten Horn, Emanuele Raineri, and Luis Serrano.

16:00-17:45 – Parallel Sessions (B, G, N)

16:00-17:45 – Symposium B - Bioinformatics and Systems Biology (Anf. Reitoria)

Symposium Chairs

José Leal, José Luis Oliveira

Invited Speaker

16:00-16:40 CB.1 FROM BITS TO GENOMES: TOWARDS INFERENCE IN COMPARATIVE GENOMICS
Eduardo Rocha

Selected Communications

16:40-17:00 SB.1 LARGE MUTATIONAL TOLERANCES EVOLVE AS SIDE EFFECTS OF NATURAL SELECTION FOR MULTIPLE ASPECTS OF PERFORMANCE
Armando Salvador, Michael A. Savageau

17:00-17:20 SB.2 ANALYSIS TOOLS FOR PROTEIN FOLDING AND UNFOLDING SIMULATION DATA IMPLEMENTED ON THE P-FOUND SYSTEM
Nuno Loureiro Ferreira, Cândida G. Silva, Vitaliy Ostropytskyy, Olivier Riche, J. Rui Rodrigues, Werner Dubitzky, Rui M.M. Brito

17:20-17:40 SB.3 A TOOL TO UNVEIL THE EVOLUTION OF THE TRNACAG IN YEASTS
Maria do Céu Santos, Gabriela Moura, Miguel Pinheiro, Manuel A. S. Santos

16:00-17:45 – Symposium G - Proteomics and Signalling Networks (Anf. Ambiente)

Symposium Chairs

Maria João Saraiva, Francisco Amado

Invited Speaker

16:00-16:40 CG.1 POST-GENOMIC APPROACHES TO DISEASE AND THERAPY
Margarida D. Amaral

Selected Communications

16:40-17:00 SG.1 BILE ACID MODULATION OF HEPATOCYTE APOPTOSIS INVOLVES CYCLIN D1
Rui E. Castro, Joana D. Amaral, Pedro M. Borralho, Susana Sol, Betsy T. Kren, Clifford J. Steer, Cecília M.P. Rodrigues

- 17:00-17:20 SG.2 COMPARISON OF MOUSE PAROTID AND SUBMANDIBULAR SECRETORY GRANULES CONTENT: A PROTEOMIC APPROACH
Armando J. C. Caseiro, Rui Vitorino, José A. Duarte, Francisco M. L. Amado
- 17:20-17:40 SG.3 ADAM10 N-GLYCOSYLATION AND SORTING INTO EXOSOMES IN OVARIAN CARCINOMA CELLS
Escrevente, C. , Altevogt, P. and Costa, J.

16:00-17:45 – Symposium N - Structural Biology and Molecular Modelling (Anf. 23.1.5)

Symposium Chairs

Sandra Ribeiro, Maria Arménia Carrondo

Invited Speakers

- 16:00-16:30 CN.1 STRUCTURAL BIOLOGY IN PARASITIC INFECTIOUS DISEASES
Glaucius Oliva
- 16:30-17:00 CN.2 SULPHUR REACTION IN A NANO-REACTOR
Carlos Frazão

Selected Communications

- 17:00-17:20 SN.1 STRUCTURAL INSIGHTS ON THE MECHANISM OF ENERGY TRANSFER AND CONVERSION IN LHC-II
Tiago Barros, Joerg Standfuss, Werner Kuhlbrandt
- 17:20-17:40 SN.2 EXPERIMENTALLY-DRIVEN IN SILICO SCREENING OF NEW LEAD COMPOUNDS WITH ENHANCED TRANSTHYRETIN TETRAMER STABILIZING EFFECTS
Carlos J. V. Simões, Rui M. M. Brito

17:45-18:15 – Coffee-break

18:15-19:15 – EMBO Plenary Lecture

CHAIR: CLAUDINA RODRIGUES-POUSADA

CP.2 CYTOSKELETON: STRUCTURE, FUNCTION AND RELATION TO DISEASE
Mary Osborn

19:15-20:00 – Reception

December, 9

09:00-10:00 –Plenary Lecture

CHAIR: ALEXANDRA MOREIRA

CP.3 REGULATION OF TRANSCRIPTION BY NON-CODING RNA

Alexandre Akoulitchev

10:00-10:30 – Coffee-break

10:30-12:15 – Parallel Sessions (A, F, L)

10:30-12:15 – Symposium A - Genomics and Gene Expression Control (Anf. Reitoria)

Symposium Chairs

Claudina Rodrigues-Pousada, Margarida Casal

Invited Speaker

10:30-10:55 CA.1 NATIONAL FACILITY FOR DNA MICROARRAYS

Laura Carreto, Patrícia M. Pereira, Joel Arrais, José L. Oliveira, Manuel A. S. Santos

Selected Communications

10:55-11:10 SA.1 THE YEASTRACT DATABASE: APPLICATION TO THE ANALYSIS OF SACCHAROMYCES CEREVISIAE GENOME-WIDE EXPRESSION DATA

Miguel C. Teixeira, Pedro Monteiro, Nuno P. Mira, Sandra Tenreiro, Ana T. Freitas, Arlindo L. Oliveira, Isabel S -Correia

11:10-11:25 SA.2 GENOME WIDE IDENTIFICATION OF FUNCTIONALLY DISTINCT SUBSETS CELLULAR MRNAS ASSOCIATED WITH THE MAMMALIAN SPLICING FACTORS U2AF65 AND PTB

Margarida Gama-Carvalho, Nuno L. Barbosa-Morais, Alex Brodsky, Pamela Silver, Maria Carmo-Fonseca

11:25-11:40 SA.3 RUNX2 REGULATES TRANSCRIPTION OF XENOPUS LAEVIS MATRIX GLA PROTEIN (XLMGP) GENE IN THE A6 CELL LINE

Natércia Conceição, Brigitte Simões, M. Leonor Cancela

11:40-11:55 SA.4 INTEGRATING YAP1 AND YAP8 IN THE S. CEREVISIAE ARSENIC STRESS RESPONSE

Regina A. Menezes, Catarina Amaral, Liliana Nascimento, Claudina Rodrigues-Pousada

11:55-12:10 SA.5 THE ROLE OF RNASE II DOMAINS IN THE DYNAMIC MECHANISM OF RNA DEGRADATION

Ana Barbas, Mónica Amblar, Cecília M. Arraiano

10:30-12:15 – Symposium F – Neurobiology (Anf. Ambiente)

Symposium Chairs

Rodrigo Cunha, Cecília Rodrigues

Invited Speaker

10:30-11:10 CF.1 NEUROMODULATION AND NEUROPROTECTION BY ADENOSINE RECEPTORS: FROM A₁ TO A_{2A} RECEPTORS

Rodrigo A. Cunha

Selected Communications

- 11:10-11:30 SF.1 VESICULAR CA²⁺/H⁺ ANTIPORT REGULATES RAPID ACH SECRETION TIMING
J.M. Cordeiro, Y. Dunant, P.P. Gonçalves
- 11:30-11:50 SF.2 A NEW EXPERIMENTAL APPROACH FOR THE STUDY OF NEUROGENESIS IN VITRO:
ROLE OF NITRIC OXIDE DERIVED FROM MICROGLIA ON NEURAL STEM CELL
PROLIFERATION.
Bruno P. Carreira, Gabriel Costa, António F. Ambrósio, Caetana M. Carvalho, Inês M. Araújo
- 11:50-12:10 SF.3 GLUTATHIONE DEPLETION AS A CAUSE OF DOPAMINERGIC CELL LOSS IN SNPC.
IMPLICATION IN PD.
M. Garrido, U. Michell, Z. Shevtsova , U Schol, M Bahr and S Kugler

10:30-12:15 – Symposium L - Clinical Biochemistry

(Anf. 23.1.5)

Symposium Chairs

Raquel Seruca, Natércia Teixeira

Invited Speakers

- 10:30-11:00 CL.1 WHAT ROLE DO ENDOCANNABINOIDS PLAY IN REPRODUCTION?
Justin C Konje MD
- 11:00-11:30 CL.2 LYSOSOMAL STORAGE DISEASES (LSDS): NEW PERSPECTIVES FROM THE
DIAGNOSIS TO THERAPY
M. Clara Sá Miranda

Selected Communications

- 11:30-11:45 SL.1 ACUTE ATORVASTATIN ADMINISTRATION DECREASES CARDIAC OXIDATIVE
STRESS IN A ANIMAL EX-VIVO MODEL OF GLOBAL ISCHEMIA-REPERF
Marta Paiva, Pedro Monteiro, Lino Gonçalves, Luís A. Providã
- 11:45-12:00 SL.2 A NOVEL AMINOPEPTIDASE FROM THE POLLEN OF PARIETARIA JUDAICA WHICH
ALTERS EPITHELIAL INTEGRITY AND DEGRADES NEUROPEPTIDES.
Luísa Cortes, Ana Luísa Carvalho, Ana Todo-Bom, Carlos Faro, Euclides Pires, Paula
Veríssimo
- 12:00-12:15 SL.3 TAMOXIFEN AND ESTRADIOL: A DEADLY COMBINATION FOR CANCER CELLS
Paula I. Moreira, José Custódio, António Moreno, Catarina R. Oliveira, Maria S. Santos

12:15-14:00 – Lunch

14:00-16:00 – Poster Session (Symposia A, B, C, D, E, F)

Equipment Exhibition and Technical Presentations

16:00-17:45 – Parallel Sessions (C, H, K)

16:00-17:45 – Symposium C - Cell Cycle

(Anf. Reitoria)

Symposium Chairs

Claúdio Sunkel, Álvaro Tavares

Invited Speaker

- 16:00-16:40 CC.1 DYNAMICS AND EPIGENETIC CONTROL OF CHROMATIN REPLICATION
A. Brero, S. Görisch, V. Chagin1, V. Buschmann, J. van Bommel, M. C. Cardoso

Selected Communications

- 16:40-17:00 SC.1 CELL CYCLE DETERMINES THE FATE OF DYSFUNCTIONAL TELOMERES IN FISSION YEAST
Miguel Godinho Ferreira
- 17:00-17:20 SC.2 THE CONDENSIN I SUBUNIT BARREN ASSOCIATES DYNAMICALLY WITH MITOTIC CHROMOSOMES DURING SYNCYTIAL EMBRYONIC DIVISIONS
Raquel A. Oliveira, Stefan Heidmann, Claudio E. Sunkel
- 17:20-17:40 SC3 THE ROLE OF THE HUMAN SPINDLE CHECKPOINT PROTEINS BUB3, BUB1 AND BUBR1 IN KINETOCHORE-MICROTUBULE ATTACHMENTS: A COMPARATIVE ANALYSIS
Elsa Logarinho, Cláudia Torres, Tatiana Resende and Hassan Bousbaa

16:00-17:45 – Symposium H - Aging and Cell Death

(Anf. Ambiente)

Symposium Chairs

Carlos Duarte, Manuel Corte Real

Invited Speaker

- 16:00-16:40 CH.1 THE ROLE OF THE MITOCHONDRIAL SERINE PROTEASE OMI/HTRA2 IN PARKINSON'S DISEASE
Luis Miguel Martins

Selected Communications

- 16:40-17:00 SH.1 EVIDENCE FOR APOPTOSIS IN TRANSGENIC MICE EXPRESSING THE P301L MUTATED FORM OF HUMAN TAU
Rita M. Ramalho, Rui E. Castro, Clifford J. Steer, Junging Xin, Meredith J. Noetzel, George A. Carlson, Karen H. Ashe, Walter C. Low, Cecília M.P. Rodrigues
- 17:00-17:20 SH.2 DOWNREGULATION OF XIAP EXPRESSION WITH SIRNAS IN K562 CELLS: EFFECTS ON CELLULAR SENSITIVITY TO DOXORUBICIN
Joana P. Figueiredo, Raquel T. Lima, Hugo Seca, M. Helena Vasconcelos
- 17:20-17:40 SH.3 THE ROLE OF MRNA MISTRANSLATION ON CELL DEGENERATION AND AGING.
Raquel M. Silva, Tatiana Lima-Costa, João A. Paredes, Manuel A. S. Santos

16:00-17:45 – Symposium K - Development Biology

(Anf. 23.1.5)

Symposium Chairs

António Jacinto, João Ramalho Santos

Invited Speaker

- 16:00-16:40 CK.1 SHARED MECHANISMS DURING NEURAL AND TRACHEAL MORPHOGENESIS IN DROSOPHILA MELANOGASTER
Sofia J. Araújo

Selected Communications

- 16:40-17:00 SK.1 IDENTIFICATION OF MOLECULAR INTERACTIONS IN THE CHICK SEGMENTATION CLOCK USING THE YEAST TWO-HYBRID APPROACH
Raquel P. Andrade, Isabel Palmeirim
- 17:00-17:20 SK.2 THE ROLE OF MITOCHONDRIAL REACTIVE OXYGEN SPECIES IN THE MAINTENANCE OF HUMAN EMBRYONIC STEM CELL PLURIPOTENCY
S.T.Varum, O. Momcilovic, C. Redinger, J. Mich-Basso, C. S. Navara, J.Ramalho-Santos
- 17:20-17:40 SK.3 ERG1, AN OUTWARD-RECTIFIER POTASSIUM CHANNEL, IS INVOLVED IN THE REGULATION OF CELL PROLIFERATION AND APOPTOSIS DURING LIMB DEVELOPMENT
Ana C. Certal, Margarida R. Santos, Carla Milagre, Joaquín Rodríguez-León

17:45-18:15 – Coffee-break

18:15-19:15 –Plenary Lecture

CHAIR: MANUEL SANTOS

CP.4 AMINOACYL-TRNA SYNTHETASES: FROM THE ORIGIN OF LIFE TO BIOTECH

Luís Ribas de Pouplana

December, 10

09:00-10:00 –Plenary Lecture

CHAIR: LEONOR CANCELA

CP.5 DENDRITIC CELL SURVIVAL AND FUNCTION
Philippe Pierre

10:00-10:30 – Coffee-break

10:30-12:15 – Parallel Sessions (D, E, J)

10:30-12:15 – Symposium D - Molecular Mechanisms of Diseases (Anf. Reitoria)

Symposium Chairs

Maria Mota, Leonor David

Invited Speaker

10:30-11:10 CD.1 THE STRUCTURE OF H5N1 INFLUENZA VIRUS GLYCOPROTEINS
John Skehel

Selected Communications

- 11:10-11:30 SD.1 ATAXIN-3, THE EXPANDED PROTEIN IN MACHADO-JOSEPH DISEASE, HAS NUCLEOCYTOPLASMIC SHUTTILING ACTIVITY
Luísa Cortes, Ana Luísa Carvalho, Patrícia Maciel, Sandra Macedo-Ribeiro
- 11:30-11:50 SD.2 TAUROURSODEOXYCHOLIC ACID (TUDCA) PROTECTS RAT RETINAL NEURAL CELLS FROM CELL DEATH INDUCED BY HIGH GLUCOSE
Joana M. Gaspar, Ana R. Santiago, Cecília M. Rodrigues and António F Ambrósio
- 11:50-12:10 SD.3 PTEN INACTIVATION PLAYS A KEY ROLE IN PRIMARY T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA MAINTENANCE
Ana Silva, J. Andres Yunes, Patricia Jotta, Miguel Abecasis, Angelo A. Cardoso and Joao T. Barata

10:30-12:15 – Symposium E - Microbial Physiology and Genetics (Anf. Ambiente)

Symposium Chairs

Adriano Henriques, Milton Costa

Invited Speaker

10:30-11:10 CE.1 INTERFERENCE WITH BACTERIAL INTER-SPECIES COMMUNICATION
Karina B. Xavier, Bonnie L. Bassler

Selected Communications

- 11:10-11:30 SE.1 PROVIDING A PHYSIOLOGICAL ADVANTAGE TO QUINIDINE STRESSED CELLS
Sandra Tenreiro, Rita C. Vargas, Raul Garcia-Salcedo, Miguel C Teixeira, Alexandra R Fernandes, José Ramos, Isabel S. Correia

- 11:30-11:50 SE.2 THE BIOSYNTHETIC PATHWAYS OF POLYOL-PHOSPHODIESTERS USED BY ARCHAEoglobus fulgidus IN STRESS ADAPTATION.
Marta V. Rodrigues, Luís G. Gonçalves, Filipa Siopa, Rita Ventura, Christopher Maycock, Pedro Lamosa, Nuno Borges, Helena Santos
- 11:50-12:10 SE.3 GENETIC CODE AMBIGUITY AS A PHENOTYPIC DIVERSITY GENERATOR IN CANDIDA ALBICANS
Isabel Miranda, Rita Rocha, Sofia Santos, Manuel A. S. Santos

10:30-12:15 – Symposium J - Biochemistry and Biophysics of Biomembranes (Anf. 23.1.5)

Symposium Chairs

Manuel Prieto, Pedro Pereira

Invited Speaker

- 10:30-11:10 CJ.1 LIPID TRANSLOCATION IN MEMBRANES VISUALIZED BY SHAPE CHANGES OF GIANT UNILAMELLAR VESICLES
Andreas Papadopoulos, Stefanie Vehring, Iván López-Montero, Philippe F. Devaux, Michael Kozlov, Thomas Pomorski, Andreas Herrmann

Selected Communications

- 11:10-11:30 SJ.1 SOLVATOCHROMIC PROPERTIES IN PHOSPHATIDYLCHOLINE/ CHOLESTEROL MIXTURES QUANTIFIED USING THE EMPIRICAL PY POLARITY SCALE
Dalila Arrais, Jorge Martins
- 11:30-11:50 SJ.2 TONOPLAST VESICLES AND INTACT VACUOLES AS MODELS TO STUDY SUGAR COMPARTIMENTATION INTO THE VACUOLE OF GRAPE CELLS
Natacha Fontes, Hernãni Gerós, Serge Delrot
- 11:50-12:10 SJ.3 MODIFICATION OF PHOSPHOLIPIDS UNDER OXIDATIVE STRESS CONDITIONS
Pedro Domingues, Maria R.M. Domingues, Ana Reis

12:15-14:00 – Lunch

14:00-16:00 – Poster Session (Symposia G, H, I, J, K, L, M, N)

Equipment Exhibition and Technical Presentations

16:00-17:45 – Parallel Sessions (I, M, O)

16:00-17:45 – Symposium I - Molecular Biotechnology (Anf. Reitoria)

Symposium Chair

Carlos Faro

Invited Speaker

- 16:00-16:40 CI.1 WHOLE GENOME SHOTGUN MAPPING OF RUBROBACTER RADIOTOLERANS
Conceição Egas, José Luis Oliveira, Manuel A. S. Santos, Milton S. da Costa, Carlos Faro

Selected Communications

- 16:40-17:00 SI.1 GENE SILENCING IN THE CNS: TF-LIPOPLEXES FOR NEURONAL SIRNA DELIVERY IN VITRO AND IN VIVO
Ana L. Cardoso, Sérgio Simões, Luís Almeida, Jaroslav Pelisek, Nikolaus Plesnila, Carsten Culmsee, Ernst Wagner, Maria C. Pedroso de Lima

- 17:00-17:20 SI.2 CLONING, EXPRESSION AND PURIFICATION OF CARBOHYDRATE BINDING MODULE IN PICHIA PASTORIS
Susana Moreira, Lucilia Domingues, Miguel Gama, Margarida Casal
- 17:20-17:40 SI.3 OLIVE MILD MOSAIC VIRUS ANTIBODIES FROM A PHAGE DISPLAY LIBRARY
João Gaspar, Ana Custódio Carlos Novo

16:00-17:45 – Symposium M - Plant Functional Genomics (Anf. Ambiente)

Symposium Chairs

Cândido Ricardo, Conceição Santos

Invited Speaker

- 16:00-16:40 CM.1 MAP KINASE 4 & SYSTEMIC IMMUNITY
Jin-Long Qiu, Klaus Pedersen, Juri Lutje, Berthe Fiil, Stephan Thorgrimsen, Nikolaj Petersen, Morten Petersen, Ole Mattsson & John Mundy

Selected Communications

- 16:40-17:00 SM.1 SMALL RNA PRECURSORS ACCUMULATE IN POLLEN OF ARABIDOPSIS THALIANA
A. G. Gomes, J. A. Feijó, J. D. Becker
- 17:00-17:20 SM.2 TRANSCRIPTOME ANALYSIS OF TRANSGENIC MEDICAGO TRUNCATULA MODULATED FOR GLUTAMINE SYNTHETASE IN ROOT NODULES
Philippe Thoquet, Helena Carvalho
- 17:20-17:40 SM.3 IDENTIFICATION OF PUTATIVE ABIOTIC STRESS DETERMINANTS IN ARABIDOPSIS THALIANA.
Herlânder Azevedo, Sara Laranjeira, Vitor Amorim-Silva, Rui M. Tavares

16:00-17:45 – Symposium O - Round Table: Implications of Bologne for Portuguese Biosciences and Biomedicine (Anf. 23.1.5)

Symposium Chairs

Cláudio Soares, Amadeu Soares, Euclides Pires

17:45-18:15 – Coffee-break

18:15-19:15 – “van Uden” Plenary Lecture

CHAIR: MANUEL COIMBRA

CP.6 THE METALLOENZYMES OF DENITRIFICATION PATHWAY
Isabel Moura