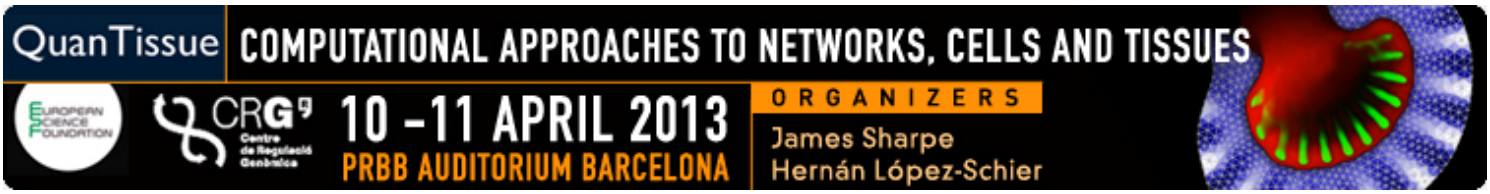
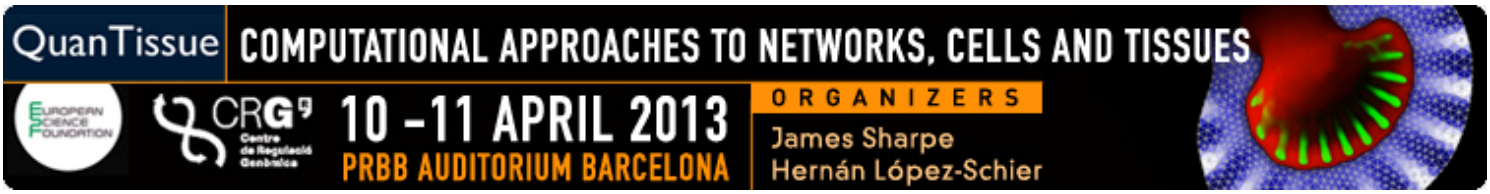


LIST OF ACCEPTED POSTERS

(by alphabetical order of author who submitted the abstract)

Author(s)	Affiliation(s)	Title
Katie Abley[1], Pierre Barbier de Reuille[1,2,3], David Strutt[4], Andrew Bangham[2], Przemyslaw Prusinkiewicz[3], Athanasius F.M. Marée[1], Verônica A. Grieneisen[1], Enrico Coen[1]	[1]John Innes Centre, Norwich Research Park, Norwich, UK, [2]School of Computing Sciences, University of East Anglia, Norwich Research Park, Norwich, UK [3]Department of Computer Science, University of Calgary, Calgary, Canada [4]MRC Centre for Developmental and Biomedical Genetics and Department of Biomedical Science, University of Sheffield, Sheffield, UK	**An intracellular partitioning-based framework for tissue cell polarity in plants and animals**
Albert A. Antolin and Jordi Mestres	IMIM - UPF - Biomedical Informatics	**Using Cross-Pharmacology Networks to Identify Novel Targets for Chemical Probes: The Case of PARPs**
Nina Asadipour	Universitat Politècnica de Catalunya	**Computational Model for Active Cell Mechanics**
Marta Bleda[1], Ignacio Medina[2], Roberto Alonso[2], Alejandro de María[2], Francisco Salavert[1] and Joaquín Dopazo[1,2,3]	[1]CIBER de Enfermedades Raras (CIBERER), Valencia, Spain [2]Department of Bioinformatics and Genomics, Centro de Investigación Príncipe Felipe (CIPF), Valencia, Spain [3]Functional Genomics Node (INB), CIPF, Valencia, Spain	**Inferring the regulatory network behind a gene expression experiment**
Anton Crombach	CRG	**"The evolution of fly development: comparing gap gene networks"**
P.S. Gutierrez[1], D. Monteoliva[2] and **L. Diambra**[1]	[1]Laboratorio de Biología de Sistemas – CREG-UNLP, Argentina. [2]Instituto de Física – UNLP, La Plata, Argentina.	**Noise Minimization in Gene Expression Switches**
Pau Formosa-Jordan[1,2], Marta Ibañes[1], Saúl Ares[2,3] and José María Frade[4]	[1] Department of Structure and Constituents of Matter, Faculty of Physics, UB, Spain. [2] Department of Biological Physics, MPI-PKS, Dresden, Germany. [3] Logic of Genomic Systems Laboratory, Spanish National Biotechnology Centre CNB-CSIC, Madrid, Spain; and GISC. [4] Department of Molecular, Cellular and Developmental Neurobiology, Cajal Institute, IC-CSIC, Madrid, Spain.	**Controlling self-regulated neurogenic wavefront progression: a modeling approach**
David Frigola, Laura Casanellas, JM Sancho and Marta Ibañes	Dept. ECM, University of Barcelona	**Nature of noise and stabilization of phenotypic states**



Author(s)	Affiliation(s)	Title
Hironobu Fujiwara[1,2] and Fiona Watt[2,3]	[1]RIKEN Center for Developmental Biology (CDB), [2]Cancer Research UK Cambridge Research Institute, [3]King's College London	**The basement membrane of hair follicle stem cells is specialized with EGFL6, which interacts with a unique sensory nerve complex, the piloneural complex**
Simon Garcia, Xavi Trepat	IBEC Barcelona	**Interplay between chemical and mechanical guidance during collective cell migration**
Nara Guisoni (1), Joaquín de Navascues (2), Alfonso Martí-nez-Arias (2), Jordi García Ojalvo (3)	(1) Department of Experimental and Health Sciences, Universitat Pompeu Fabra, Barcelona, Spain & Instituto de Física de Líquidos y Sistemas Biológicos (IFLYSIB), Universidad Nacional de La Plata, La Plata, Argentina (2) Department of Genetics, University of Cambridge, Cambridge, UK (3) Department of Experimental and Health Sciences, Universitat Pompeu Fabra, Barcelona, Spain	**Decision making in Drosophila midgut homeostasis**
Alan Itakura, Carlo Cannistraci & Timothy Ravasi	King Abdullah University of Science and Technology	**Decoupling Linear and Non-linear Associations of Gene Expression over Time**
Khoruzhenko A., Gotsulyak N., Cherednyk O., Filonenko V.	Institute of Molecular Biology and Genetics, NAS of Ukraine	**Application of image analysis tools to study the locomotor properties of HeLa cells under mTOR signaling inhibition and the presence of stromal cells**
Karen Lee[1], Paul Southam[2], Jerome Avondo[1], Richard Kennaway[2], Johann Strasser[1], Andrew Bangham[2] and Enrico Coen[1]	1) John Innes Centre, Norwich Research Park, Norwich, UK. 2) University of East Anglia, Norwich Research Park, Norwich, UK.	**Quantification and Origin of Curvature at Early Stages of Leaf Development**
Oksana M. Malanchu, S. S. Palchevskyy, V. V. Filonenko	Department of Cell Signaling, the Institute of Molecular Biology and Genetics of NAS of Ukraine	**Interaction between TSC2/PP5: myth or reality**
Andraž Stožer[1,2], Marko Gosak[2,3,4,5], Jurij Dolenšek[1], **Rene Markovič**[3], Matjaž Perc[3], Marko Marhl[2,3,4], Marjan Slak Rupnik[1,2,6], Dean Korošak[2,5,7]	[1]Inst. of Physiology, Faculty of Medicine, Univ. of Maribor, Maribor SI [2]Centre for Open Innovations and Research, Univ. of Maribor, Maribor SI [3]Dept. of Physics, Faculty of Natural Sciences and Mathematics, Univ. of Maribor, Maribor SI [4]Faculty of Education, Univ. of Maribor SI [5]Faculty of Civil Engineering, Univ. of Maribor SI [6]CIPKeBiP-Centre of Excellence for Integrated Approaches in Chemistry and Biology of Proteins, Ljubljana SI [7]CAMTP - Center for Applied Mathematics and Theoretical Physics, Univ. of Maribor, Maribor SI	**Structural Properties and Vulnerability of the Functional Network between Beta Cells in Islets of Langerhans from Mouse Pancreas Tissue Slices**

Author(s)	Affiliation(s)	Title
Jérôme Noailly, Themis Toumanidou, Carlos Ruiz, Andrea Malandrino	Biomechanics and Mechanobiology Institute for Bioengineering of Catalonia (IBEC)	**Organ/tissue finite element modelling towards an integration of biomechanical and biophysical concepts in musculoskeletal diseases: A focus on the spine**
Koh Onimaru[1] and Mikiko Tanaka[1]	[1]Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, Yokohama, Japan	**Anterior-posterior pattern formation in the chondrichthyan fin development: Insight into the fin-to-limb transformation**
Palau-Ortin D, Formosa-Jordan P ,Sancho JM, Ibañes M	Dept. Structure and Constituents of Matter (University of Barcelona)	**Dynamical selection of coexisting lateral inhibition patterns**
Peter M.F.E. Emmrich[1], Hannah E. Roberts[2] and **Vera Pancaldi**[2]	[1] John Innes Centre, Norwich Research Park, Norwich UK [2] CNIO, Madrid	**A Gene Regulatory Model of Heterosis and Speciation**
Irina Pavelescu[1,2], Josep Vilarrasa-Blasi[1], Mary-Paz González-García[1], Marta Ibañes[2] and Ana I. Caño-Delgado[1]	[1] Dept. Molecular Genetics, CRAG, Campus UAB Bellaterra, Spain [2] Dept. Estructura i Constituents de la Matèria. Facultat de Física. Universitat de Barcelona, Barcelona, Spain.	**A Cellular Dynamics Analysis Of Brassinosteroid Contribution To Root Growth In *Arabidopsis Thaliana***
Janet Piñero, Núria Queralt, and Laura I. Furlong	Research Programme on Biomedical Informatics (GRIB), Hospital del Mar Medical Research Institute (IMIM), DCEXS, Pompeu Fabra University (UPF)	**Properties of human disease genes in organ-specific networks**
Carla Prat Rojo	IBMB-CSIC	**Histoblast expansion dynamics during metamorphosis: from kinetics to forces**
Masatoshi Nishikawa[1,2], Masahiro Ueda[2,3,4], and **Tatsuo Shibata**[1,2]	[1] Laboratory for Physical Biology, RIKEN Center for Developmental Biology, Kobe JP, [2] Japan Science and Technology Agency (JST), CREST, Osaka JP. [3] Laboratory for Cell Signaling Dynamics, RIKEN Quantitative Biology Center, Osaka JP. [4] Laboratory of Single Molecule Biology, Graduate School of Science, Osaka University, Osaka JP	**Biasing Spontaneous Excitation in the Phosphatidylinositol Lipid Signaling System for Eukaryotic Chemotaxis**
Angughail Sumi	Centre for Genomic Regulation (CRG)	**Cellular mechanisms driving tissue constriction during morphogenesis**
Xavier Serra-Picamal [1], Vito Conte [1], Elsa Bazellière[1], Ester Añón[1,2], Xavier Trepat[1,3], **Romaric Vincent**[1]	[1] Institute for Bioengineering of Catalonia (IBEC), University of Barcelona, Barcelona, Spain [2] Matter and complex systems Lab, University Paris Diderot, Paris, France [3] Institut Català de Recerca i Estudis Avançats (ICREA), Barcelona, Spain	**Self-rheology of cell monolayers**