

Day 1   Wednesday, Oct 27 <sup>th</sup>	
09.00-12.00	Registration
14.30-14.45	<b>Welcome and Opening Ceremony</b> Rui L. Reis and Subhas C. Kundu (3B's Research Group, University of Minho, Portugal   FoReCaST 2021 Conference Chairs)
	Chair: Rui L. Reis   Co-Chair: S. C. Kundu
14.45-15.45	<b>KL1 - In Vitro Systems for Deconvolving Tumor Dynamics</b> <u>Lance L. Munn</u> (Department of Radiation Oncology, Massachusetts General Hospital / Harvard Medical School, Boston, United States)
	Short Oral Presentations
15:45-16:00	<b>SOP1 - Protrusion Fluctuations as a Predictive Morphodynamic Signature of Tumor Invasion</b> <u>D. Caballero</u> , C. M. Abreu, A. C. Lima, V. Brancato, N. M. Neves, V. M. Correlo, J. M. Oliveira, R. L. Reis, S. C. Kundu (3B's Research Group, University of Minho, Portugal)
16:00-16:15	<b>SOP2 - Hyaluronan of Low Molecular Weight Triggers the Invasive "Hummingbird" Phenotype on Gastric Cancer Cells</b> <u>S. Amorim</u> , D. Soares da Costa, I. Pashkuleva, C. A. Reis, R. L. Reis, R. A. Pires (3B's Research Group, University of Minho, Portugal)
16.15-16.45	Coffee-Break   Poster Session
	Chair: Nuno Neves
16.45-17.45	<b>KL2 - Animal models in cancer research: their strengths and limitations</b> <u>Paula A. Oliveira</u> (Centre for Research and Technology of Agro-Environmental and Biological Sciences, Inov4Agro, University of Trás-os-Montes and Alto Douro, Portugal)
	Short Oral Presentations
17:45-18:00	<b>SOP3 - Matrix Stiffness - The Manipulator of Cell Behaviour</b> <u>B. Kundu</u> , V. Brancato, J. M. Oliveira, V. M. Correlo, R. L. Reis, S. C. Kundu (3B's Research Group, University of Minho, Portugal)
18:00-18:15	<b>SOP4 - Laser Ablation Triggers EMT Associated Translational Response in Melanoma Tumor Spheroids</b> <u>D. B. Rodrigues</u> , D. Cruz-Moreira, R. L. Reis, R. P. Pirraco (3B's Research Group, University of Minho, Portugal)

Day 2   Thursday, Oct 28 <sup>th</sup>	
Chair: Ricardo Pires	
09.00-10.00	<b>KL3 - Three-dimensional cancer cell models in preclinical research</b> <u>Luca Primo</u> ( <i>Department of Oncology - University of Torino - Torino, Italy</i> )
Short Oral Presentations	
10.00-10.15	<b>SOP5 - Hydrogel Bioarchitectures for Modelling and Digitalizing 3D Cancer Dynamics Toward the Discovery of Functional Drug Thresholds</b> <u>C. F. Guimarães</u> , L. Gasperini, R. Ahmed, A. P. Marques, U. Demirci, R. L. Reis ( <i>3B's Research Group, University of Minho, Portugal</i> )
10.15-10.30	<b>SOP6 - Colloidal and Fibrous Thermo/Magnetic-Responsive Platforms to Deliver Curcumin as an Antineoplastic Agent</b> <u>A. Khodaei</u> , F. Jahanmard, R. Bagheri, H.R. Madaah Hossini, A. Dabbagh, S. Amin Yavari ( <i>Institute for Nanoscience and Nanotechnology, Sharif University of Technology, Tehran, Iran</i> )
10.30-11.00	Coffee-Break   Poster Session
Chair: Manuela Gomes	
11.00-12.00	<b>KL4 - Translating the tumour microenvironment in three dimensional (3D) models</b> <u>Jai Prakash</u> ( <i>Engineered Therapeutics group, Department of Biomaterials, Science and Technology, University of Twente, The Netherlands</i> )
Oral Presentations	
12.00-12.30	<b>OP1 - Organoid Models Reveal Pathways Important for Neuroendocrine Cell Growth, Differentiation, and Transformation</b> <u>Talya L. Dayton</u> , Nicolas Alcala, Lisanne Den Hartigh, Laura Moonen, Lise Mangiante, José Luis McFaline-Figueroa, Sonja Levy, José van den Berg, Jules Derks, Rachel S. van Leeuwaarde, Anne-Marie Dingemans, Niels Kok, Wieneke Buikhuisen, Koen Hartemink, Ernst Jan Speel4, Gerlof D. Valk, Margot E. Tesselaar, Menno R. Vriens, Susana M. Chuva de Sousa Lopes, Matthieu Foll, Lynnette Fernandez-Cuesta, Hans Clevers ( <i>Hubrecht Institute, Royal Netherlands Academy of Arts and Sciences, Utrecht, The Netherlands</i> )
12.30-14.30	Lunch (Restaurant)
Chair: Vitor Correlo	
14.30-15.30	<b>KL5 - The plasticity of stromal cells at the tumour microenvironment and their contribution to tumour fate</b> <u>Yuval Shaked</u> ( <i>Rappaport-Technion-Integrated Cancer Center, Rappaport Faculty of Medicine, Technion - Israel Institute of Technology, Israel</i> )
15.30-16.30	<b>KL6 - LGR5+ cancer cells in chemotherapy resistance and metastasis</b> <u>Eduard Batlle</u> ( <i>Institute for Research in Biomedicine (IRB Barcelona) and ICREA, Barcelona</i> )
16.30-17.00	Coffee-Break   Poster Session

	Chair: Tiago Silva
17.00-18.00	<b>KL7 - Engineering the genome to develop new biologic therapies for arthritis</b> <u>Farshid Guilak</u> ( <i>Department of Orthopaedic Surgery, Washington University in St. Louis MO and Shriners Hospitals for Children - St. Louis, USA</i> )
	Short Oral Presentations
18.00-18.15	<b>SOP7- Novel Surface- and Biochemistry Platforms for Cancer Biosensing, Therapy and Beyond.</b> <u>M. A.D. Neves</u> , M. E. Caldas, R. N. Rebelo, A. I. Barbosa, J. M. Oliveira, V. M. Correlo, R. L. Reis, S. C. Kundu <i>(3B's Research Group, University of Minho, Portugal)</i>
18.15-18.30	<b>SOP8 - O-Glycotriptides as Minimalistic Molecular Models of Glycoproteins</b> <u>A. Brito</u> , D. Dave, A. Lampel, V. I. B. Castro, D. Kroiss, R. L. Reis, T. Tuttle, R. V. Ulijn, R. A. Pires, I. Pashkuleva <i>(3B's Research Group, University of Minho, Portugal)</i>

Day 3   Friday, Oct 29 <sup>th</sup>	
Chair: Miguel Oliveira	
09.00-10.00	<b>KL8 - Advances in tumor modeling for cancer drug development</b> <u>Karla Queiroz</u> ( <i>MIMETAS BV, Oegstgeest, The Netherlands</i> )
Short Oral Presentations	
10.00-10.15	<b>SOP9 - Silk Fibroin-based 3D <i>In Vitro</i> Breast Cancer Model for Drug Screening Applications</b> <u>L. Pierantoni</u> , V. Brancato, J. B. Costa, S. C. Kundu, R. L. Reis, J. Silva-Correia, J. M. Oliveira <i>(3B's Research Group, University of Minho, Portugal)</i>
10.15-10.30	<b>SOP10 - A New Chalcone Derivative for Glioblastoma Treatment</b> <u>D. Mendanha</u> , J. V. de Castro, J. Moreira, B. M. Costa, H. Cidade, M. Pinto, H. Ferreira, N. M. Neves <i>(3B's Research Group, University of Minho, Portugal)</i>
10.30-11.00	Coffee-Break   Poster Session
Chair: Alexandra Marques	
11.00-12.00	<b>KL9 - Exploring and exploiting functional subsets of breast cancer-associated fibroblasts</b> <u>Kristian Pietras</u> ( <i>Division of Translational Cancer Research, Department of Laboratory Medicine, Lund University</i> )
Oral Presentations	
12.00-12.30	<b>OP2 - Realism vs simplicity - the bioengineering paradox in organ-on-chip systems</b> <u>D. Baptista</u> , Z. Tahmasebi Birgani, P. Habibović, L. Schurgers, B. Mees, S. Giselbrecht, R. Truckenmüller <i>(MERLN Institute for Technology-Inspired Regenerative Medicine, Maastricht University, Maastricht, The Netherlands)</i>
12.30-14.30	Lunch (Restaurant)
Chair: Rogério Pirraco	
14.30-15.30	<b>KL10 - Exosomes as emerging players in cancer biology and diagnostic applications</b> <u>Bruno Costa-Silva</u> ( <i>Champalimaud Research, Champalimaud Centre for the Unknown, Portugal</i> )
Short Oral Presentations	
15.30-15.45	<b>SOP11 - Gastrointestinal Organoids-on-Chip: Challenges and Future Trends</b> <u>M. R. Carvalho</u> , L. Yan, Bo Li, C. Zhang, Y. He, R. L. Reis, J. M. Oliveira <i>(3B's Research Group, University of Minho, Portugal)</i>
15.45-16.00	<b>SOP12 - Marine-based Nanaoparticles with ERBB-2 Antibody Immobilized Target Breast Cancer Cells Both <i>in vitro</i> and <i>in vivo</i></b> <u>C. Oliveira</u> , C. S. Gonçalves, E. P. Martins, N. M. Neves, R. L. Reis, Bruno M. Costa, T. H. Silva, A. Martins <i>(3B's Research Group, University of Minho, Portugal)</i>

16.00-16.15	<b>SOP13 - Melanin Nanoparticles as a Theranostic Approach for Cancer Treatment</b> <u>M. Caldas</u> , M. Neves, R. Rebelo, S. C. Kundu, R. L. Reis, V. M Correlo <i>(3B's Research Group, University of Minho, Portugal)</i>
16.15-16.45	<i>Coffee-Break   Poster Session</i>
	Chair: David Caballero
16.45-17.45	<b>KL11 - Glycosylation in cancer: molecular characterization and implications for cancer therapy</b> <u>Celso A. Reis</u> ( <i>i3S - Instituto de Investigação e Inovação em Saúde, Universidade do Porto, Portugal</i> )
17.45-18.00	Closing ceremony