Poster Presentations Monday 24 March, Poster Session 1, Drinks Reception and Exhibition Commences

| Poster No. | First Name | Last Name | Organisation | Paper Title | Topic |
|------------|----------------|------------|------------------------------|---|---|
| 33 | Peter | Adams | University of Leeds | Exploring the "concentration quenching" effect of small-molecule fluorophores and fluorescent proteins by using lipid membranes and electrophoresis | Imaging and single molecule biology |
| 91 | Caranfil | Anca | Université Paris-Saclay | Towards the modelling of chromosome movements during meiotic prophase I in Arabidopsis thaliana | Physics of the nucleus |
| 34 | Claudia | Andrews | | Detergent-Induced Membrane Solubilization Monitored with Fluorescence De- Quenching | Imaging and single molecule biology |
| 23 | Matthew | Asker | University of Leeds | Fixation and extinction in fluctuating metapopulations subject to bottlenecks and migration | Evolution ecology and epidemiology |
| 24 | Rafael | Ayala Lara | Aalto University | Noise and global warming effects on the swimming dynamics of copepods. | Evolution ecology and epidemiology |
| 35 | Lu | Bai | | Adaptive 3D Multiphoton Microscopy for Deeper and Higher Spatial Resolution Imaging | Imaging and single molecule biology |
| 25 | Alexander | Baker | University of Cambridge | Long term evolution of spatially structured microbial communities in controlled environments | Evolution ecology and epidemiology |
| 62 | Oleksandr | Baziei | The Universtiry of Edinburgh | Hybrid Computational Framework for Active Polar Fluids | Patterns, waves, transport, collective phenomena, and microswimmers |
| 63 | Francesco | Boccardo | University of Genoa | Communication-driven geometric bias enhances multi-agent olfactory search efficiency | Patterns, waves, transport, collective phenomena, and microswimmers |
| 92 | Andrea | Bonato | University of Strathclyde | Spontaneous unidirectional loop extrusion by SMC proteins | Physics of the nucleus |
| 98 | Ahmad | Boroumand | | Scaling Behaviour of the Mechanics and Mesoscale Structure of Folded Protein Hydrogels | Protein structure, dynamics and interactions |
| 54 | Federico | Bosetto | | In vitro expression and characterization of the heme binding domain of HasR from Pseudomonas aeruginosa | Immunity, resistance and host/pathogen dynamics |
| 99 | Victoria | Byelova | University of Leeds | From worm-like to blobby: coarse-graining protein unfolding in hydrogel networks | Protein structure, dynamics and interactions |
| 36 | Colleen | Caldwell | Vrije Universiteit Amsterdam | Untangling chromatin loops: uncovering biophysical characteristics of CCCTC-binding factor (CTCF) | Imaging and single molecule biology |
| 64 | Sam | Cameron | The Open University | Entropy production in spatially diffuse division-death dynamics. | Patterns, waves, transport, collective phenomena, and microswimmers |
| 65 | Jan | Cammann | Loughborough University | Active Spaghetti: Collective Organization in Filamentous Cyanobacteria | Patterns, waves, transport, collective phenomena, and microswimmers |
| 1 | Maria Cristina | Cannarsa | Sapienza University of Rome | Light-driven synchronization of optogenetic clocks | Clocks, timers and cell cycle dynamics |
| 66 | Jared | Carpenter | John Innes Centre | A mathematical investigation into how surfactants influence nanobubble stability in the plant xylem | Patterns, waves, transport, collective phenomena, and microswimmers |
| 37 | Thomas | Catley | University of Sheffield | Understanding the Mechanism of Novel Anticancer Drugs with Atomic Force Microscopy | Imaging and single molecule biology |
| 67 | Tristan | Cerdin | Sorbonne Université | Counting Active Particles in Boxes to Quantify their Dynamics | Patterns, waves, transport, collective phenomena, and microswimmers |
| 100 | Yean Ming | Chew | The University of Warwick | The subtle allostery of kinesin and tubulin | Protein structure, dynamics and interactions |
| 93 | Michael | Chiang | University of Edinburgh | Bridging-Induced Phase Separation and Loop Extrusion Drive Noise in Chromatin Transcription | Physics of the nucleus |

| 5 | Luca | Cocconi | Max Planck Institute For Dynamics And Self-organisation | Formation and decoding of morphogen gradients in developmental space-time | Differentiation and development |
|-----|----------------|----------------------|---|--|---|
| 101 | Noor | Daudi | oon organisation | Rab11-FIP1 interacts with Rab11-FIP5 in p53 mutant cancer cells. | Protein structure, dynamics and interactions |
| 68 | François | De Tournemire | University of Edinburgh | Role of Length Scales in Bacterial Swarming | Patterns, waves, transport, collective phenomena, and microswimmers |
| 69 | William | Durham | University of Sheffield | Twitching bacteria actively reverse direction to travel with their neighbours | Patterns, waves, transport, collective phenomena, and microswimmers |
| 102 | Timea | Feller | | High extensibility of fibrin is supported by unstructured side region, while general mechanical behaviour may arise from random backbone structure | Protein structure, dynamics and interactions |
| 6 | Elisa | Floris | University of Graz | Uncoupling jamming- and adhesion-induced phase transition in embryonic tissues | Differentiation and development |
| 70 | Tonmoy | Gogoi | Tezpur University | Spontaneous Vortex Dynamics in Active Apolar Rods | Patterns, waves, transport, collective phenomena, and microswimmers |
| 38 | Sarah | Graham | University of York | Exploring the Frameshifting Element in SARS-CoV-2 Using smFRET | Imaging and single molecule biology |
| 7 | Philip | Greulich | University of Southampton | Emergent order in epithelial sheets by interplay of cell divisions and cell fate regulation | Differentiation and development |
| 71 | Simon | Hanna | University of Bristol | Optical trapping of active particles | Patterns, waves, transport, collective phenomena, and microswimmers |
| 39 | Tess | Harrison | Cardiff University | Correlative light electron microscopy of individual receptor trafficking in neurons enabled by background-free four-wave mixing imaging | Imaging and single molecule biology |
| 72 | Benedikt | Hartl | Tu Wien and Allen Discovery Center at Tufts University | Neuroevolution of Decentralized Decision-Making in N-Bead Swimmers leads to Scalable and Robust Collective Locomotion | Patterns, waves, transport, collective phenomena, and microswimmers |
| 94 | Oliver | Henrich | University of Strathclyde | oxDNA3 – Introducing Sequence-Specific Curvature and Elasticity into a Coarse- Grained DNA Model | Physics of the nucleus |
| 27 | Lluís | Hernández-Navarro | University of Leeds | Eco-evolutionary dynamics of cooperative antimicrobial resistance in time-varying environments with spatial structure | Evolution ecology and epidemiology |
| 103 | Katy | Hollands | University of York | Modelling DNA in Complex Topologies: The Role of Gyrase | Protein structure, dynamics and interactions |
| 40 | Libby | Holmes | | UNTANGLING HOW THE SHELTERIN COMPLEX TANGLES DNA USING ATOMIC FORCE MICROSCOPY | Imaging and single molecule biology |
| 41 | Jamieson | Howard | University of York | Towards Unraveling Nucleoprotein interactions in Supercoiled DNA: Structural Dynamics of Model Catenanes | Imaging and single molecule biology |
| 28 | Kabir | Husain | University College London | The Noise is the Signal: Luria-Delbruck in High Resolution | Evolution ecology and epidemiology |
| 73 | Shunsuke | Ichii | The University of Tokyo | Enhanced Enzyme Diffusion as Maxwell's Demon: Selective Increase of Exothermal Reaction | Patterns, waves, transport, collective phenomena, and microswimmers |
| 29 | Claudia | Igler | University of Manchester | The biophysics of transcription factor binding shapes gene regulation | Evolution ecology and epidemiology |
| 95 | Antonio | lorio | University of Dundee | Tension-dependent kinetochore-microtubule interactions | Physics of the nucleus |
| 74 | Purnima | Jain | Tata Institute of Fundamental Research | Inertial swimmer suspensions : Instability and turbulence | Patterns, waves, transport, collective phenomena, and microswimmers |
| 75 | Purnima | Jain | Tata Institute of Fundamental Research | Inertial swimmer suspensions : Instability and turbulence | Patterns, waves, transport, collective phenomena, and microswimmers |
| 8 | Mahendra Kumar | Jothi Letchumy | School of Physics And Astronomy | Fluorescence microscopy approaches to monitor cell-to-cell heterogeneity in the regulation of cardiomyocyte contractility | Differentiation and development |
| 42 | Aneeth | Kakkanattu Arunkumar | University of Exeter | Optoplasmonic single-molecule Whispering Gallery Mode (WGM) sensing platform for probing neurotransmitter-lipid membrane interactions | Imaging and single molecule biology |

| | | | | Towards accurate and efficient simulations of multiphoton fluorescence microscopy | |
|-----|-----------------|-------------------------|---|--|---|
| 43 | Praveen | Kalarickel Ramakrishnan | University College London | in mouse brain tissue using the beam propagation method | Imaging and single molecule biology |
| 105 | Dimitra | Katrantzi | | Unveiling the structure of protein-based hydrogels by overcoming cryo-SEM sample preparation challenges | Protein structure, dynamics and interactions |
| 106 | Emma | Kerklingh | | Advancing Biophysical Research with the C-Trap: Unveiling Molecular Mechanisms at the Single-Molecule Level | Protein structure, dynamics and interactions |
| 2 | Jan | Kocka | UCL | Topological States in Out-of-Equilibrium Allosteric Molecular Assemblies | Clocks, timers and cell cycle dynamics |
| 44 | Abhinav Paul | Kongari | The Francis Crick Institute | Optimisation of Electromagnetic Tweezers for Intracellular Force Application | Imaging and single molecule biology |
| 45 | Wolfgang | Langbein | Cardiff University | Interferometric Gated Off-Axis Reflectometry (iGOR) - ultrasensitive label-free tracking | |
| 9 | Crisandro Allen | Lazo | University of The Philippines Manila | of nanoparticles and suspended membranes in three dimensions Thermodynamic Consequences of Bursty Gene Expression on the Mesoscopic | Differentiation and development |
| | | | , ,, | Dynamics of Two-Node Gene Networks in Response to an External Forcing Oscillations and collective behaviour in compartmentalised enzymatic reactions: | Patterns, waves, transport, collective |
| 76 | Anna S. | Leathard | The University of Sheffield | Insights from numerical models | phenomena, and microswimmers |
| 55 | Yael | Lebel | | Excitable systems as a design principle of the immune system | Immunity, resistance and host/pathogen dynamics |
| 56 | Yael | Lebel | | Excitable dynamics of flares and relapses in autoimmune diseases | Immunity, resistance and host/pathogen dynamics |
| 46 | Zekai | Li | Imperial College London | Identifying Molecular Interactions through Stochastic Modelling and Optimisation | Imaging and single molecule biology |
| 57 | Ruizhe | Li | University of Cambridge | Host cell cycle and ribosomal resources drive phage infection outcomes | Immunity, resistance and host/pathogen dynamics |
| 10 | Yi Ting | Loo | University of Warwick | Modelling pattern formation and self-organisation during neuruloid development | Differentiation and development |
| 58 | Carol | Lu | Arizona State University | Quantitative Modeling of Bacterial Population Kinetics in the Gut Microbiome of Individual C. elegans | Immunity, resistance and host/pathogen dynamics |
| 11 | Aileen | Magilin | John Innes Centre | Unlocking early flowering: The role of microRNAs in accelerating flowering time through small RNA transcriptomics | Differentiation and development |
| 107 | Vuk | Malis | University of York | Molecular Simulations of the Pyrenoid | Protein structure, dynamics and interactions |
| 30 | Daniel | Malumphy Montesdeoca | The University of Manchester | Expanding the P. bursaria-algal model for endosymbiosis | Evolution ecology and epidemiology |
| 3 | Smitha | Maretvadakethope | Imperial College London | Guidelines for the development of genetic AC-DC circuits | Clocks, timers and cell cycle dynamics |
| 47 | Eva | Martin-Cuevas | University of Sheffield | AFM-based approaches for RNA structure characterization | Imaging and single molecule biology |
| 108 | Giorgia | Marucci | HORIBA UK | Pioneering a New Era in Live Tissue Imaging with Fluorescence Lifetime Microscopy (FLIM) | Protein structure, dynamics and interactions |
| 77 | Sam | Matthews | University of York | Translational impact of rapid digital holographic microscopy. | Patterns, waves, transport, collective phenomena, and microswimmers |
| 59 | Conrad | McDonnell | University of Sheffield | Mechanically killing bacterial pathogens on nanostructured surfaces | Immunity, resistance and host/pathogen dynamics |
| 78 | Laura | Meissner | Uniwersytet Warszawski | Odd viscous Stokes flow around a single sphere | Patterns, waves, transport, collective phenomena, and microswimmers |
| 96 | Akinori | Miyamoto | Tokyo University of Agriculture and Technology | Physical property of the nucleoplasm revealed by creep-relaxation dynamics | Physics of the nucleus |
| 12 | Lewis | Mosby | The Francis Crick Institute and University College London | Evolving Tissue Pattern Scaling and Robustness Through Spatially Heterogeneous Feedback | Differentiation and development |
| 13 | Ander | Movilla Miangolarra | John Innes Centre | Epigenetic variability in induced pluripotency – How much does it contribute? | Differentiation and development |

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|-----------------------------|------------------------------------|--------------------------------------|---|--|---|
| 79 | Daniel | Muzatko | University of Aberdeen | Fundamental limits on pattern formation in Turing-like reaction-diffusion systems | Patterns, waves, transport, collective |
| | | | | Tanadiana and an pattern formation in raining into reaction and each of the pattern of the patte | phenomena, and microswimmers |
| 80 | Sharadhi | Nagaraja | Aalto University | Direct force measurement on swimming meso-organisms | Patterns, waves, transport, collective |
| | | | · | | phenomena, and microswimmers |
| 17 | Tasmin | Nahar | Keele University | Development of magnetic force biotechnology for neural regeneration | Engineering tissues, organoids and biohybrids |
| 81 | Cara | Neal | University College London | A computational approach to simulating a three-sphere swimmer in a viscoelastic | Patterns, waves, transport, collective |
| 01 | Cara | INCAI | Offiversity College Loridon | fluid modelled via the Giesekus constitutive law | phenomena, and microswimmers |
| 117 | Isaac | NI-I-I- | University of Leeds | Gallium ions can target chronic Pseudomonas aeruginosa biofilm infections by | Physics of Disease |
| 117 | | Noble | | hijacking its ferric PQS transport system | Physics of Disease |
| | | | | Intermittent cell-cell attachments generate emergent fluid-like properties in | Patterns, waves, transport, collective |
| 82 | Devi Prasad | Panigrahi | University College London | migrating cell aggregates | phenomena, and microswimmers |
| 109 | Auro | Patnaik | University of Edinburgh | Zero-shot Adaptation of Drug Diffusion Model for Fragment Elaboration. | Protein structure, dynamics and interactions |
| | | | | | Patterns, waves, transport, collective |
| 83 | Luca | Pellegrino | Humanitas University | Reduction of bacterial adhesion on wrinkled surfaces under fluid shear | phenomena, and microswimmers |
| | | | | Modelling The Meristem Transitions Underlying Development of Wheat Inflorescence | priorioria, ana mioreeviminore |
| 14 | Ella | Penny | John Innes Centre | Architecture | Differentiation and development |
| | | | | Aichitecture | |
| 15 | Julia | Pfanzelter | MPI-CBG Dresden | Mechanical coupling of tissue layers facilitates avian left-right symmetry breaking | Differentiation and development |
| | | | | | D |
| 84 | Diogo | Pinto | University of Oxford | Spontaneous flows in confined epithelial cell sheets | Patterns, waves, transport, collective |
| | | | , | | phenomena, and microswimmers |
| 85 | Praneet | Prakash | University of Cambridge | Dynamics of an Algae-Bacteria Inhomogeneous Active Suspension | Patterns, waves, transport, collective |
| | Trancet | Trancon | offiversity of ournariage | by numics of unvigate bacteria innomingeneous victive ouspension | phenomena, and microswimmers |
| 110 | Chloe | Randall | University of Leeds | Using molecular dynamics simulations to understand PIEZO1 mechanosensitive ion | Protein structure, dynamics and interactions |
| 110 | Cilide | Natiuali | Offiversity of Leeds | channel in red blood cells | Protein structure, dynamics and interactions |
| | A 1 -24 | Dev | Liniversity of Chaffield | Faciling pigangutan faraga in gingle malagula hislagu | Immunity, resistance and host/pathogen |
| 60 | Ankita | Ray | University of Sheffield | Feeling piconewton forces in single-molecule biology | dynamics |
| 18 | Natalie | Richards | Durham University | pH-taxis Biohybrid Lipid Vesicles | Engineering tissues, organoids and biohybrids |
| 97 | Rodrigo | Rivas-Barbosa | University of Edinburgh | A Numerical Study of the Role of Hijacked Enhancers in B-Cell Cancers | Physics of the nucleus |
| | | | | The role of vibrational molecular structure in entangled two | |
| 48 | Christian | Rodriguez-camargo | University College London | photon absorption in biomolecules | Imaging and single molecule biology |
| | | | | · · · · · · · · · · · · · · · · · · · | |
| | | | | Phage T7-F, coli AR3110 long-term coevolution experiment in a spatially structured | Immunity resistance and host/nathogen |
| 61 | Jordan | Romeyer Dherbey | University of Cambridge | Phage T7-E. coli AR3110 long-term coevolution experiment in a spatially structured | Immunity, resistance and host/pathogen |
| | | | - | environment | dynamics |
| 19 | Kenza | Sackho | University of Surrey | environment Multimodal characterisation of an epicardial spheroid model | dynamics Engineering tissues, organoids and biohybrids |
| | | | - | environment Multimodal characterisation of an epicardial spheroid model Bacterial super-exponential growth and cell wall dynamics | dynamics |
| 19 | Kenza | Sackho | University of Surrey | environment Multimodal characterisation of an epicardial spheroid model Bacterial super-exponential growth and cell wall dynamics Probing Drug Pharmacokinetics - | dynamics Engineering tissues, organoids and biohybrids |
| 19 | Kenza Jhonatan | Sackho Salgado | University of Surrey Qmul | environment Multimodal characterisation of an epicardial spheroid model Bacterial super-exponential growth and cell wall dynamics Probing Drug Pharmacokinetics - Can the impact of Cisplatin-like Anticancer Drugs on Protein Dynamics explain the | dynamics Engineering tissues, organoids and biohybrids Clocks, timers and cell cycle dynamics |
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| 19 | Kenza Jhonatan | Sackho Salgado | University of Surrey Qmul | environment Multimodal characterisation of an epicardial spheroid model Bacterial super-exponential growth and cell wall dynamics Probing Drug Pharmacokinetics - Can the impact of Cisplatin-like Anticancer Drugs on Protein Dynamics explain the difference in toxicity | dynamics Engineering tissues, organoids and biohybrids Clocks, timers and cell cycle dynamics |
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| 19 4 111 112 31 | Kenza Jhonatan Mona Sagar Luca | Sackho Salgado Sarter Satpathi Sesta | University of Surrey Qmul Isis Neutron And Muon Source University of Leeds | environment Multimodal characterisation of an epicardial spheroid model Bacterial super-exponential growth and cell wall dynamics Probing Drug Pharmacokinetics - Can the impact of Cisplatin-like Anticancer Drugs on Protein Dynamics explain the difference in toxicity Understanding the Roles of Carotenoids in the Photophysics of Bacterial Light-Harvesting Protein Complexes Detecting epistasis from SARS-CoV-2 genomic data | dynamics Engineering tissues, organoids and biohybrids Clocks, timers and cell cycle dynamics Protein structure, dynamics and interactions Protein structure, dynamics and interactions Evolution ecology and epidemiology |
| 19 4 111 112 | Kenza Jhonatan Mona Sagar | Sackho Salgado Sarter Satpathi | University of Surrey Qmul Isis Neutron And Muon Source University of Leeds | environment Multimodal characterisation of an epicardial spheroid model Bacterial super-exponential growth and cell wall dynamics Probing Drug Pharmacokinetics - Can the impact of Cisplatin-like Anticancer Drugs on Protein Dynamics explain the difference in toxicity Understanding the Roles of Carotenoids in the Photophysics of Bacterial Light-Harvesting Protein Complexes | dynamics Engineering tissues, organoids and biohybrids Clocks, timers and cell cycle dynamics Protein structure, dynamics and interactions Protein structure, dynamics and interactions |
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| 86 | Gianmarco | Spera | University of Oxford | Nematic Torques in Scalar Active Matter | Patterns, waves, transport, collective phenomena, and microswimmers |
|-----|------------|---------------|-----------------------------|---|---|
| 21 | Raveen | Tank | University of Manchester | Advancing Gynaecological Disease Research: A Fallopian Tube-on-a-Chip Model for STIC Progression and High-Grade Serous Ovarian Cancer Development | Engineering tissues, organoids and biohybrids |
| 32 | Anna | Tarodi | | Modelling spatial competition in toxin-antitoxin producing bacterial populations | Evolution ecology and epidemiology |
| 87 | Mykola | Tasinkevych | Nottingham Trent University | How to steer catalytic nanoswimmers? | Patterns, waves, transport, collective phenomena, and microswimmers |
| 113 | Matthew | Thomas | University of Edinburgh | Investigating the Effects of Nucleosome Positional Irregularity on Chromatin using a Nucleosome-Scale Computational Model | Protein structure, dynamics and interactions |
| 22 | Conor | Treacy | King's College London | Multiphoton line-scanning FLIM for fast, dynamic 3D imaging of breast cancer spheroids. | Engineering tissues, organoids and biohybrids |
| 88 | Mehmet Can | Ucar | University of Sheffield | Self-organized guidance of mixed cell populations | Patterns, waves, transport, collective phenomena, and microswimmers |
| 89 | Rahil | Valani | University of Oxford | Nonlinear and chaotic dynamics of a microswimmer in confined flows | Patterns, waves, transport, collective phenomena, and microswimmers |
| 50 | Мо | Vali | University of Cambridge | Signalling Molecule Detection in Liquid Cultures Using Surface-Enhanced Raman Spectroscopy | Imaging and single molecule biology |
| 114 | Sam | Von Der Dunk | University of Oxford | Proteins evolve structural robustness to cope with locally chaotic folding landscape as predicted by ESMfold | Protein structure, dynamics and interactions |
| 51 | Jingyu | Wang | University of Oxford | OPTIMISED ADAPTIVE OPTICS ILLUMINATION STRATEGIES FOR THREE-PHOTON MICROSCOPY IN DEEP NEUROIMAGING | Imaging and single molecule biology |
| 115 | George | Weston | Durham University | A Machine Learning Approach to Identify Carbon Dioxide Binding Proteins for Sustainability and Health | Protein structure, dynamics and interactions |
| 52 | Sylvia | Whittle | University of Sheffield | Quantifying the Role of DNA Topology in Cas9 Activity using Atomic Force Microscopy | Imaging and single molecule biology |
| 116 | Maria | Zacharopoulou | University of Cambridge | Design of DNA-peptide nanostructures against intracellular targets in cancer | Protein structure, dynamics and interactions |
| 90 | Qi | Zhou | University of Edinburgh | Transport Dynamics of Red Blood Cells in the Microcirculation | Patterns, waves, transport, collective phenomena, and microswimmers |