

Abbaszade, Gorkhmaz	
Cytometric biopsy reveals spatio-temporal heterogeneity in Bacillus subtilis biofilms shaped by cannibalism	44
Akmeric, Emir Bora	
Against the current: vegf orchestrates collective endothelial migration under flow	45
Aravena, Alejandro	
Ising-like spatial behavior in coupled and bistable gene networks	46
Arellano-Tinto, Juan	
Mathematical modelling of mechanical communication between cells	47
Auromahima, Shreeman	
Cell sorting through local preferential directional movement in a confluent system	48
Autorino, Camilla	
A closed feedback between tissue phase transitions and morphogen gradients drives patterning dynamics	49
Basu, Soham	
Generalized feedback control in stem cell dynamics	50
Beye, Martin	
Genetic programming of cooperative behaviors in honeybee colonies	51
Biniuri, Yonatan	
Emergent dynamic instability properties from hybrid nucleic acid structures	52
Bourne, Josh	
How do cells organise extracellular matrix in 3D?	53
Brambach, Max	
Decoupling tumour and self-tolerance through local modulation of T cell suppression	54

EMBO | EMBL Symposium: Collectivity in living systems: emergence, function, and evolution

Burillo, Marc	
Robustness in multi-scale feedbacks close to criticality in development	55
Comolli, Luis R.	
Emergence in designed agroecosystems: collective dynamics in a perennial, multi-species agroforestry network	56
Frigola-Casals, Joaquim	
An active surface model explains W-shaped folding of the forebrain roof plate	57
Gattani, Nishita	
From loss to gain: investigating how compensation to cell loss is coordinated across scales in the developing zebrafish retina	58
Gonzalez, Sergio	
Do transposable elements constitute a fail-safe mechanism for endangered population evolvability?	59
Herr, Corey	
Learning cell-cell interaction rules governing collective behaviors from cell shape	60
Horiguchi, Shuhei	
Tissue growth mechanics reveal evolutionary divergence of inner ear morphogenesis across vertebrates	61
Jobanputra, Rohan	
A minimal investigation of the interplay between mechanics and patterning in morphogenesis	62
Kell, Brayden	
Universal fluctuation bounds for biomolecular assembly	63
Khurana, Hridai	Presenter: Bufacchi, Rory
Building mouse behaviour from interacting cognitive agents	64
Knafo, Maor	
Beyond diffusion: basal cognition as the evolutionary scaffold for collective resilience	65

Kumagai, Yuji	
Emergent robustness in breast cancer is constructed by a locally restricted amphiregulin signal diffusion gradient	66
Lamson, Adam	
Modeling large cytoskeletal structures reveals how unstable systems robustly partition embryonic cytoplasm	67
Logie, Colin	
Collectivity in a diffuse organ: the polarisation of white blood cells	68
Lozada-Chávez, Irma	
Intron-richness is a prerequisite for the emergence of complex multicellularity and is decoupled from genome size evolution throughout Eukarya	69
Mahony, Emily	
Collective behaviours in organogenesis: how mesenchymal cells coordinate intestinal elongation	70
Mason, Mandy	
From cells to collectives: lipid-driven emergence of cording in <i>Mycobacterium tuberculosis</i>	71
Miyazawa, Hidenobu	
Beyond energy and growth: a signaling role of metabolism in collective rhythms	72
Müller, Susann	
Flow cytometry at the core of microbial population and community analyses	73
Pallares, Cristina	
Uncoupling adhesion- and density-driven rigidity transitions triggers epithelial organization in embryonic tissues	74
Pesch, Matthias	
Tracking tri-cultures: resolving microbial dynamics through microfluidic analysis	75

EMBO | EMBL Symposium: Collectivity in living systems: emergence, function, and evolution

Porcher Fernandes, Alexandre	
Ecology drives the evolution of reproduction at the onset of multicellularity	76
Rapon, Valentin	
Adaptive response of yeast population to acetic acid	77
Rodriguez-Sanchez, Gisela	
Viruses as facilitators of transitions to multicellularity	78
Rustarazo-Calvo, Laura	Presenter: Floris, Elisa
Uncoupling jamming- and adhesion-induced phase transitions in embryonic tissues	79
Sanchis Pla, Laura	
Tracking the growth vs. defense trade-off of bacterial collectives under protistan predation	80
Savagner, Pierre	
Epithelial-mesenchymal transition and biological individuality: an evolutionary perspective.	81
Tikoti, Shri Gowri	
Collective dynamics of <i>Caenorhabditis elegans</i> in 2D	82
Tschiatschek, Birgit	
Stem cell competition in the pre-neoplastic intestine under immunosurveillance	83
Tshinsele, Gatwa	
Metabolic resilience in microbial collectives: how non-growing cells sustain community function	84
Vicens, Júlia	
Agent-based modeling of mechanical interactions in microbial colonies	85
Vitale, Jlenia	
Energetic cost and regulation of tissue phase transition	86

Volchinsky, Vladislav		
De-novo acquisition of drug resistance in cancer cells by stochastic induction of epigenetic changes		87
Yáñez Feliú, Guillermo		
Tumor microenvironment coupling governs dormant cancer cell awakening: an evolutionary game theory model with environmental feedback		88
Zhang, Alex Chen Yi		
Nonlocal decoding of positional and correlational information during development		89
Zhao, Michael	Presenter: Zhao, Michael; Rombouts, Jan	
Aggregation dynamics links system size to patterning timescale		90
Zhu, Deyong		
Collective organization and extracellular matrix architecture in microbial biofilms		91