Clark, Cordell TOPBP1 mediates the response to dna damage and acentric chromosomes in inviable <i>Xenopus</i> hybrids	41
Adakkattil, Ramesh A protein-DNA surface hydrogel mechanically reinforces the cell nucleus and protects the genome	46
Alsulami, Khayria Beyond Bub1's role in mitosis: phosphorylation of H2AT120 in G2	47
Amiad Pavlov, Daria Dynamic cytoskeletal-nuclear strain transfer in beating cardiomyocytes; implications for laminopathy associated nuclear fragility	48
Amilina, Huda Characterization of the nuclear pore complex in Entamoeba histolytica	49
Armesto, Marina Nuclear mechanics under stress: integrating chromatin modifiers and DNA damage signaling	50
Arroyo, Aurora Role of DNA replication in genome structure and nuclear function	51
Asano, Yukako Nuclear polarization to the immune synapse facilitates an early transcriptional burst in cytotoxic T lymphocytes	52
Basu, Vishal Exportin-1-nucleoporin axis regulates nuclear pore complex homeostasis in cancer cells	53
Binder, Leonie Developing nuclear targeting strategies for efficient delivery and establishment of episomal S/MAR vectors	54
Binner, Mirjam Nucleomechanical regulation of cellular identity and phenotype in head and neck cancer	55
Biswas, Abin Osmotically active solute macromolecules determine nuclear size and density	56

EMBO | EMBL Symposium: Cell biology of the nucleus

Boocholez, Alon Investigating gene expression re-establishment post-mitosis and the role of nuclear body assembly in regulating mRNA transcription and export	57
Bosch Calvet, Mireia From lamin A/C to toroidal nuclei: Nuclear stiffness as a driver of chromosomal instability	58
Brändle, Franziska Presenter: Jagannathan, Madhav Nuclear mechanostability emerges from satellite DNA condensation into chromocenters	59
Canat, Antoine Mechanical plasticity of the nuclear envelope drives zygotic genome activation in the mouse embryo	60
Coutts, Catherine In search of new regulators of SMAD signalling	61
Das, Sudipta Membrane biogenesis and nuclear division checkpoint: are they interconnected?	62
De Donato Pérez, Maria Helena Balancing genomic tension: how do cohesin and RNA polymerase II coordinate topoisomerase activity and chromatin architecture	63
Demura-Devore, Joh Nuclear movement and mitosis during plant development	64
Dias, Ana Catarina Uncover the role of histone deacetylation in mitosis	65
Ebrahim Kutty, Mirsana Nuclear mechanics regulate epidermal stem cell fate on engineered topographies	66
Eid, Mireille GC content drives spatial genome architecture and regulates splicing modes	67

Ezgin, Sena Division-dependent regulation of cell fate & positioning in epidermis by aPKC	68
Fulmer, Diana H3K9me2 modified chromatin is rearranged in a cell-type specific manner during mouse embryonic development	69
Gaur, Aakash Nuclear localized m6A reader protein YTHDF3 regulates cardiomyocyte death and atrophy by modulating the alternative splicing program	70
Gerasimaite, Ruta Engineering unspecific DNA methyltransferase for recording functional information in DNA	71
Gerasimaite, Ruta Presenter: Lukinavicius, Gražvydas Optifoot: a method for recording protein binding sites on DNA for microscopy and sequence analysis	72
Gerlitz, Gabi Bridging perinuclear actin to the nucleus: new insights into cytoskeletal-nuclear integration	73
Gibieža, Paulius Impairing Rab11a transport during cytokinesis disrupts cell division and gives rise to abnormal nuclear morphology	74
Goychuk, Andriy Feedback of RNA synthesis on nucleolar organization	75
Gunkel, Philip An insight into the complexity of the nuclear basket	76
Hameed, Hadiya Abdul Effect of structural organization of the lamina on nuclear morphology and mechanics	77
Hantsche-Grininger, Merle Visualizing molecular chromatin organization in human cells by combined single-molecule protein and DNA imaging	78

EMBO | EMBL Symposium: Cell biology of the nucleus

Hawkins, Olivia Investigating the composition of the nuclear membrane throughout the cell cycle	79
Hernández Armendáriz, Alberto Emergence of the developmental tempo of a stem cell zoo from the organisation of its biomolecular condensates	80
Huttunen, Moona Presenter: Mattola, Salla Parvovirus infection alters nucleolar structure, affecting nucleolar function and capsid nuclear egress	81
Jiménez Beltrán, Miguel Angel The role of xbp1s in the regulation of gene expression during early stages of human endometrial stromal cell decidualization	82
Joo, Jungsik Epigenomic reprogramming of 3D chromatin architecture during ER stress	83
Katoh, Manami p53-mediated nuclear stress response orchestrates senescence and metabolic dysfunction	84
Kim, Kunhyung Presenter: Kim, Myungjin; Kim, Kunhyung	
The role of RNF in neuronal DNA damage	85
Kocanova, Silvia Physiological mechanical forces drive nuclear changes and chromatin reorganization in the colonic epithelium	86
Kovacs, Marton Mechanism(s) and Function(s) of TREX1 nuclear translocation	87
Kuo, Xuan Senescence-associated spatial-temporal re-organization of nuclear lamina interactions in single RPE cells	88
LaRue-Nolan, Kayla Role of Lamin A in pancreatic cancer nuclear envelope integrity	89

Lee, Eun-Chong 3D enhancer architecture coordinated by CTCF determines immune-related gene expression patterns via RNA polymerase II pause-release in CD4+ T cells	90
Lesche, Franziska Chromatin-coated microspheres as a tool for investigating dynamic chromosome surface interactions	91
Lin, Chia-Yang The AcMNPV DNA helicase P143 arrests host S phase and impairs DNA synthesis	92
Lin, Junyan RanBP2-dependent annulate lamellae drive nuclear pore assembly and nuclear expansion	93
Mandal, Pranay BAF arrests nick expansion to preserve genome integrity	94
Marujo do Nascimento Vidigueira, Joana Uncovering the role of chromatin material properties in zygotic genome activation	95
Maslennikova, Daria The AAA+ ATPase Torsin sustains CLCC1 function to promote NPC biogenesis	96
Mastrangelo, Anna Regulation and oncogenic functions of nuclear AurkA: the role of TPX2	97
McFadden, William Design and biochemical investigation of cyclized peptides from a phenylalanine-glycine (FG)-containing nucleoporin that interacts with the HIV-1 capsid	98
Medina-Suárez, Sara Presenter: Machín, Félix The interplay between the nuclear envelope protein Msc1 and the ESCRT-III complex in the DNA damage response and beyond	99

Mella, Jessica Interrogating the function of the nuclear lamina using deep mutational scanning in human iPSCs	100
Michelbach, Anja The role of nucleo-cytoplasmic actin transport in the regulation of mammalian development	101
Morais Armas, Samantha Exploring toroidal nuclei: preliminary observations on their morphology and associated cellular organization	102
Moriizumi, Hisashi Identifying molecular mechanisms that control nuclear size scaling	103
Nagle, Irène Large nuclear volume increase and nuclear flattening correlate with chromatin remodeling and cellular fate in chondrocytes	104
Orr, Jessica The nucleus follows an internal cellular scale during polarized root hair cell development	106
Oshaghi, Saleh Presenter: Paulsen, Jonas Coordinated temporal dynamics of the transcriptome and 3D genome in response to nuclear mechano-confinement	107
O'Sullivan, Michael Presenter: O'Sullivan, Michael; Cloarec, Meh	ndi
Identifying annulate lamellae specific factors to uncover the mechanism behind nuclear pore complex assembly	105
Paul, Ajoy Multicomponent phase separation of the tumor-suppressor p53 and its family in the nuclear environment	108
Pedro, Catarina Regulating transcription during mitosis in human stem cells	109
Phadnis, Vaishnavi Mechanisms and functions of neutrophil nuclear morphology	110

Phillips, Hannah Investigating roles of nucleocytoplasmic transport in cell cycle regulation	111
Rappold, Sabrina The role of VPS72 in nuclear reassembly	112
Rodríguez-Herrera, Noelia Closed mitosis with an excess of nuclear envelope	113
Sachweh, Jenny Presenter: Hampoelz, Bernhard Regulation of nuclear pore complex (a)symmetry	114
Sainova, Iskra Development of methods about appropriate in vitro-incubation of stem cells, predisposing to totipotency and pluripotency, and to further formation of embryoid and organoid structures	115
Sanches, Leonardo Presenter: Miyakawa, Ayumi Chromatin compartment remodeling shapes extracellular matrix gene regulation in Hutchinson-Gilford Progeria Syndrome	116
Sarah, Sadik Understanding the dynamic and mechanical interplay between the nuclear envelope and chromatin	117
Sarkar, Roubnab Mlp60A bridges nuclear transcription and cellular signalling pathways to govern somatic cell function for reproductive success in Drosophila melanogaster	118
Schichler, Daja Presenter: Cuylen-Häring, Sara More than a proliferation marker? The role of Ki-67 in nucleolar architecture	119
Schindler, Joseph Transcriptional responses to nitric oxide are widescale and source-dependent	120
Sen, Pialy Lamin A depletion and rosiglitazone influence chromatin organization and PPARy DNA binding in murine adult fibroblasts	121

EMBO | EMBL Symposium: Cell biology of the nucleus

Serrano Martín, María Dolores Exploring the role of Mog1, a Ran binding protein, in budding yeast mitosis	122
Shahid-Fuente, Isabel Understanding the mechanism of Myosin VI Nuclear Recruitment	123
Shrikondawar, Akshaykumar Arginine-rich motif inside nucleolar localization signal of nucleomethylin is crucial for its phase separation within the nucleolus	124
Song, Min-Ji Role of histone modification in chromatin-mediated transcriptional repression in protozoan parasite Trichomonas vaginalis	125
Spicer, Maximilian F. D. Histone deacetylation drives apoptotic chromatin compaction to limit shedding of DNA from the dying cell	126
Sukhbaatar, Nyamdelger Nuclear-localized glycolysis generates metabolites that regulate chromatin modification in liver homeostasis and regeneration	127
Truszkowski, Lukasz Presenter: Wyart, Elisabeth RBM20 phase separation builds cardiac splicing factories	128
Ulferts, Svenja SUN2 mediates calcium-triggered nuclear actin polymerization to cluster active RNA polymerase II	129
Vinzens, Sabrina Cell cycle timing and local coordination of mitoses in scaling of epithelial growth and morphogenesis	130
Vismara, Mauro A strategy for unveiling the structural and functional partners of FPAC1 nuclear condensates	131

Volchinsky, Vladislav De-novo acquisition of drug resistance in cancer cells by stochastic induction of epigenetic changes	132
Wang, Hong Regulation of YAP activity by nuclear G-actin binding	133
Wenzel, Annika Expansion microscopy for the visualization of nuclear structures in	134

Posters A-Z

primary cells

Whelan, Matthew 135 HIV-1 signalling remodels nuclear pores to licence infection

Xu, Xufeng

Amino acids bind to phase-separating proteins and modulate 136 biomolecular condensate stability and dynamics