

Runqstedgaard, 13-16 October 2024

No	First name	Surname	Abstract Title	Institution
1	Celina	Adalem	A kinetic model of gene expression in brain development and evolution	Max Planck Institute for Molecular Genetics
2	Drew	Adler	Microglia regulate neuronal activity-dependent protein synthesis through modulating CNS metabolism	New York University
3	Hanadi	Al Tbeishat	Establishing a Cholinergic Synucleinopathy Model to decipher pathological crosstalk between mitochondria and Parkinson's disease-associated alpha-synuclein protein aggregates	University of Birmingham
4	Stefania	Beretta	Shank3 Modulates Ribosomal Function and Protein Synthesis via mGlu5: Implications for Behavior in Autism Spectrum Disorders	dzne
5	Nicol	Birsa	Axonal stress triggers a transport-independent somatic stress response.	UCL Queen Square Institute Of Neurology
6	Lana	Blinc	New fluorescent molecular probes for ex vivo assessment of neurodegenerative protein conformational pathology	Faculty of Medicine, University of Ljubljana
7	Karinder	Brar	PERK-ATAD3A interaction provides a subcellular safe haven for protein synthesis during ER stress	Altos Labs
8	Hannah	Bruce	A human neurodevelopmental syndrome reveals a mitochondrial translation function for the transcription factor FOXG1.	King's College London
9	Florencia	Cabrera-Cabrera	Puromycin Inactivation for Cell-Selective proteome Labelling (PICSL)	Tallinn University of Technology
10	Leeyup	Chung	A new human preclinical model of Fragile X Syndrome	Boston Children's Hospital
11	Prasannakumar	Deshpande	LRRK2 represses protein synthesis by suppressing translation of proteostasis regulators in sporadic and LRRK2-G2019S Parkinson's disease	Turku Bioscience
12	Sandra	Dubes	Exploring how changes in neuronal activity modify mitochondrial translation	The Francis Crick Institute
13	Amelie	Eichler	Transcriptome and de novo proteome analyses of organotypic entorhino-hippocampal tissue cultures reveal novel targets in TTX-induced synaptic plasticity	Hannover Medical School
14	Hector Albert	Gasco	Trazodone rescues dysregulated synaptic and mitochondrial nascent proteomes in prion neurodegeneration	Altos Labs
15	Michelle	Gottlieb Marra	Discovery of alternative reading frames in the mRNAs encoding sodium voltage-gated channel subunits	King's College London / UK Dementia Research Institute
16	Wibke	Groenewald	Absence of a rRNA methylation leads to loss of a neuroectoderm cell fate marker	University of Copenhagen
17	Haiyan	He	Temporal dynamics of experience-induced proteostasis in the optic tectum of <i>Xenopus laevis</i> tadpoles	Georgetown University
18	Jennifer	Heck	Subcellular spatial transcriptomics to resolve local regulatory mechanisms of neuronal function and pathology	EMBL Heidelberg
19	Marlena	Helms	Unveiling the role of mitochondrial-lysosome communication in PINK1 synthesis and PINK1-mediated mitochondrial quality control	Max Planck Institute for Biological Intelligence
Short talk only	Hanna	Hörnberg	Distinct roles for MNK1 and MNK2 in social and cognitive behavior through kinase-specific regulation of the synaptic proteome and phosphoproteome	Max Delbruck Center for Molecular Medicine
20	Marcel	Jüngling	Cell type-specific dissection of the transcriptomic landscape of synapses across the mouse brain	Max Planck Institute for Brain Research
21	Emre	Kapucu	A microphysiological platform to study the impacts of α -synuclein pathology on synaptic protein dynamics and neuronal functionality	Tampere University
22	Wren	Kim	Activity-Associated Gene Expression in the Brain	UC Berkeley
23	Michaela	Kress	Gene and ncRNA signatures and their trajectories characterizing human iPSC-derived neuron maturation	Medical University Innsbruck
24	Pia	Kruse	Synaptopodin Regulates Denervation-Induced Plasticity at Hippocampal Mossy Fiber Synapses	Hannover Medical School
25	María	Landínez Macías	Elevating tRNAGly levels as a therapeutic approach for glycy1-tRNA synthetase- associated peripheral neuropathy	Radboud University
26	Yuan	Li	Strengthening BNIP3L-related mitophagy pathway as a new strategy to counteract Alzheimer's disease	University of Copenhagen
Short talk only	Giordano	Lippi	Cell type specific translaticomics in the mouse hippocampus at single-cell and single-molecule resolution	Scripps Research Institute
27	Wendy	Liu	Astrocytes secrete factors that regulate neuronal protein synthesis	New York University
28	Cecilia	Llaó Cid	A vascular link between protein synthesis and neurodevelopment	Goethe Universität Frankfurt am Main
29	Beatriz	Maio	Early or late re-expression of FMRP rescues audiogenic seizures in the <i>Fmr1</i> ^{-/-} mouse	University of Edinburgh

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Short talk only	Eva	Martin-Solana	Ribosome-Associated Vesicles promote activity-dependent local translation	University of Pittsburgh
30	Soledad	Matus	PKR as a synaptic proteome controller	Fundacion Ciencia & Vida UNiversidad San Sebastian
31	Elizaveta	Melnikova	The loss of Ca ²⁺ -activated Cl ⁻ channel, TMEM16A worsens the ischemic stroke-reperfusion outcome	Aarhus University
32	Maria	Menafra	A loss of function mechanism underlies histidyl-tRNA synthetase-associated peripheral neuropathy	Donders Institute
33	Marija	Mihailovic	Multiscale modeling uncovers 7q11.23 copy number variation-dependent changes in ribosomal biogenesis and neuronal maturation and excitability	Institute of Molecular Genetics and Genetic Engineering
34	Muhaned	Mohamed	Autism- and epilepsy-associated EEF1A2 mutations lead to translational dysfunction and development delay in iPSC derived neurons	New York University
35	Mara	Müller	An rRNA expansion segment mediates the dimerization of hibernating mammalian ribosomes	Max Planck Institut für Hirnforschung Frankfurt
36	Ramanathan	Narayanan	Reinstatement of the E3 ubiquitin ligase UBE3A is sufficient to rescue proteomic alterations in the mICD mouse model of Angelman syndrome imprinting defects	F. Hoffmann-La Roche Ltd.
37	Mauricio	Oliveira	Regulation of cell type-specific translomes in response to neuronal activity and behavior.	New York University
38	Ahamed	Panikkaveettil Kaladiyil	Impact of APOE4 on mGluR Mediated Protein Synthesis: Implications for Alzheimer's Disease	Center for Brain Research, Bengaluru
39	Sofia	Pasadaki	Role of developmental regulators of axonal local translation in adult axon regeneration	University of Crete
40	Magdalena	Pereyra	Role of mTORC1 on prefrontal inhibitory plasticity during memory consolidation	Institut de l'Audition (Institut Pasteur)
41	Kavya Vinayan	Pushpalatha	Molecular mechanisms of neurotransmitter release site-dependent long-term plasticity and its implications in synaptopathy	University of Copenhagen
Short talk only	Tessa	Robberechts	Deciphering the compartment-specific role of ALS-causing RNA binding proteins in motor axons	KuLeuven - VIB
42	Lara	Sach	Na ⁺ /H ⁺ exchanger NHE6 (SLC9A6) in neuronal health and disease	University of Copenhagen
43	Richard	Sam	Elucidating the Role of Eukaryotic Elongation Factor 1 Alpha 2 (EEF1A2) Mutations in Neuronal Protein Synthesis and Morphology	NYU
44	Arianna	Scarlatti	Multimomics analysis of Early Alzheimer's Disease models reveals a Tau-dependent protein homeostasis alteration	Scuola Normale Superiore, Pisa
45	Andre	Schwarz	An rRNA expansion segment mediates the dimerization of hibernating mammalian ribosomes	Max-Planck-Institute for Brain Research
46	Lei	Shi	Investigating the role of protein synthesis in social behavior in normal and autism spectrum disorder-modeled mice	Jinan University
47	Aditi	Singh	Fmr1-/-y and Syngap+/- mouse models exhibit divergent translation environments and deficits of synaptic plasticity	Boston Children's Hospital, Boston, Massachusetts, USA
48	Cristina	Sironi	Rab5-associated transcriptome reveals a new link between endosomes and autophagy in axons	Ospedale San Raffaele
49	Erik	Slot	tRNA sequestration is a unifying mechanism underlying peripheral neuropathy caused by mutations in glycyl-tRNA synthetase	Donders Institute for Brain, Cognition and Behaviour, Radboud University
50	Aleksandra	Stawikowska	Trap1 mutant mice as a new model of male-specific autism	University of Warsaw
51	Michiko	Sumiya	Analyses of de novo protein synthesis in in vitro model of AD using FUNCAT	King's College London
52	Bartosz	Tarkowski	Cytoplasmic poly(A) polymerase Tent5A is expressed in hypothalamic and midbrain secretory neurons to enhance the expression of multiple neurohormones	IIMCB
53	Chun Kit Benjamin	Tong	Long-term Depression Triggers Substantial Dendritic Mitochondrial Fission Supported by Local Translation	Max Planck Institute for Biological Intelligence
54	Silvia	Turchetto	Local Regulation of Synaptic Ubiquitin Signaling	DANDRITE
55	Srinidhi	Venkatesan Kalavai	Altered translation in frontotemporal dementia tau-mutant human induced neurons	New York University
56	Sarah	Wirth	Studying the local transcriptome of excitatory synapses in neurodevelopment and neurodegeneration.	German Center for Neurodegenerative Diseases, University of Ulm
57	Kim	Wolzack	Neuron-specific translational control during proteostatic stress	Amsterdam UMC
58	Federico	Zampa	Ribo-STAMP - A new method for measuring translation in neurons at single-cell resolution	The Scripps Research Institute