

Polish RNA Biology Meeting

September 28–30, 2023, IIMCB, Warsaw, Poland

POSTER SESSION I

September 28, 2023 18:15 - 22:00

Poster No	Authors	Title
1	Klaudia Samorowska , Elżbieta Wanowska, Michał Szcześniak	Long noncoding RNAs in breast cancer epitranscriptomics
2	Jakub Dolata , Agata Stępień, Dawid Bielewicz, Tomasz Gulanicz, Mateusz Bajczyk, Łukasz Szewc, Monika Józwiak, Dariusz J. Smoliński, Zofia Szweykowska-Kulińska, Artur Jarmołowski	Co-transcriptional miRNA biogenesis in plants
3	Joanna Kwiatkowska , Ewa Stein, Anastasiia Romanenko, Uwe Kuhn, Elmar Wahle, Kinga Kamieniarz-Gdula	In vitro reconstitution of pre-mRNA 3'-end processing machinery
4	Ramasamy Subbiah	Can Xenobiotics induce RNA Modifications as diagnostic and therapeutic approaches for cardiac ailments?
5	Patrycja Plewka, Robert Pasięka, Michał W. Szcześniak, Elżbieta Wanowska, Izabela Makałowska, Dorota Raczyńska	Novel role of U7 snRNA in the negative regulation of lincRNA and HERVs expression in human cells
6	Gabriela Betlej , Iwona Rzeszutek, Anna Lewińska, Maciej Wnuk	TRDMT1 methyltransferase affects extracellular RNA-based responses in etoposide-stimulated senescent osteosarcoma cells
7	Paulina Glazińska , Wojciech Glinkowski, Milena Kulasek	Evolutionary conserved and novel lupine-specific regulation of ARF6 gene expression by miRNA and phased ta-siRNA
8	Dominika Błoniarz , Jagoda Adamczyk-Grochala, Anna Lewińska, Maciej Wnuk	Changes in telomere length and related mechanisms in TRDMT1 gene knockout cancer cells during long-term selection upon azacytidine stimulation
9	Aneta Łyś , Natalia Ryczek, Izabela Makałowska	The functional meaning of 5'-end-extended transcripts of protein-coding genes in human
10	Upasana Saha , Lee Davidson, Steven West, Elmar Wahle, Kinga Kamieniarz-Gdula	Mechanistic dissection of human PCF11 in premature and normal transcription termination
11	Julia Kurzawska , Yeva Kovalyk, Maciej Basczok, Ewa Stein, Mikołaj Olejniczak	RNA binding by KH-domain proteins KhpA and KhpB from <i>Streptococcus pneumoniae</i>
12	Jadwiga Meissner and Magda Konarska	The function of 5' exon motifs in stabilizing the 5'SS within the yeast spliceosome



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13	Bartosz Tarkowski , Hanna Grzesik, Wiktoria Orzeł, Paweł Krawczyk, Karolina Piechna, Jan Brancewicz, Olga Gewartowska, Kamil Jachacy, Jakub Gruchota, Marcin Szpila, Katarzyna Sałas, Sara Domagała, Monika Pawłowska, Andrzej Dziembowski	Cytoplasmic poly(A) polymerase TENT5A is a global positive regulator of neurohormone expression
14	Bharti Aggarwal , Halina Pietrykowska, Wojciech M. Karłowski, Artur Jarmołowski, Zofia Szweykowska-Kulińska	Functional characterization of liverwort-specific and Marchantia-specific miRNAs
15	Szymon Krasnodębski , Agnieszka Gozdek, Maria-Bianca Mititelu, Oldřich Hudeček, Hana Cahova, Joanna Kufel	Arabidopsis thaliana NudiXes
16	Jingping Geng , Magdalena Chrabąszczewska, Karol Kurpiejewski, Marzena Jankowska-Anyszka, Anna Stankiewicz-Drogon, Edward Darzynkiewicz, Renata Grzela	Kinetic analysis of IFITs interactions and the role of IFITs complexes in IFIT1 binding to IVT mRNA
17	Milena Krajewska , Zuzanna Napora, Edward Darzynkiewicz, Renata Grzela	Potential interaction of PNRC1 protein with proteins forming the decapping complex
18	Emilia Kozłowska , Agata Ciołak , Grażyna Adamek, Julia Szcześniak, Agnieszka Fiszer	microRNA-mediated dysregulation of transcription in Huntington's disease
19	Anna Golisz-Mocydlarz , Monika Zakrzewska-Płaczek, Michał Krzysztoń, Justyna Piotrowska, Joanna Kufel	NOL12 is required for pre-rRNA processing and regulates this process in response to stress in Arabidopsis
20	Jakub Piątkowski and Paweł Golik	A new approach to studying Candida albicans mitochondrial transcriptome via direct RNA sequencing
21	Michał Brouze , Monika Kusio-Kobiałka, Olga Gewartowska, Agnieszka Czarnocka-Cieciura, Marcin Szpila, Seweryn Mroczek, Bartosz Tarkowski, Kamil Jachacy, Andrzej Dziembowski	TENT5-mediated cytoplasmic polyadenylation of mRNAs encoding secreted proteins is essential for oogenesis in mice
22	Anna Stankiewicz-Drogon , Renata Grzela, Siranjeevi Nagaraj, Anna Andrzejewska, Piotr Rogujski, Edward Darzynkiewicz, Barbara Łukomska, Mirosław Janowski	hBM-MSCs engineering with ARCA-capped mRNA
23	Magdalena Wrona , Julia Zinsmeister, Ruslan Yatusevich, Szymon Świeżewski	A long non-coding antisense transcript of DOG1 regulates Arabidopsis thaliana secondary seed dormancy by BRM, a SWI/SNF ATPase
24	Maciej M. Basczok and Mikołaj Olejniczak	FinO-domain protein ProQ from Neisseria meningitidis recognizes intrinsic transcription terminators in its RNA targets



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25	Martyna Koźbiał , Helena Kossowska, Marta Gapińska, Roksana Iwanicka-Nowicka, Wojciech Wróblewski, Marta Góra, Michał Krzysztoń, Szymon Świeżewski, Małgorzata Lichocka, Antoni Palusiński, Katarzyna Sosnowska, Marta Koblowska	Arabidopsis homolog of human CWC22 is required for seed development
26	Vladyslava Liudkovska, Kevork Wakimian, Ashwini Khaladkar, Phuong Cao Thi Ngoc, Cristian Bellodi, Maciej Cieśla	Splicing factor dynamics in steady-state and malignant hematopoiesis
27	Anna Pacwa , Joanna Machowicz, Piotr Rodak, Bartosz Machna, Saeed Akhtar, Marialaura Amadio, Joanna Lewin-Kowalik, Adrian Smęadowski	HuR silencing promotes Retinal Ganglion Cells degeneration and alleviates the activity of exogenous neuroprotection in glaucoma
28	Magda Kopczyńska , Chihiro Nakayama, Agata Stępień, Takayuki Nojima, Kinga Kamieniarz-Gdula	Genome-wide analysis of chromatin signature/composition at human transcription termination regions
29	Małgorzata Zawadzka , Leszek Błaszczyk, Urh Černigoj, Fayza Daboussi, Mara G. Freire, Julita Gumna, Katarzyna Pachulska-Wieczorek, Mario Perkovic, Rok Sekirnik, Fani Sousa, Chantal Pichon	Yeast-based factory for therapeutic mRNA bioproduction
30	Maria Jagielska , Paweł Hałakuc, Rafał Milanowski	Nonconventional introns as factors affecting the coding potential of euglenid genes
31	Marta Starczak , Fabian Leśniewski, Maciej Gawroński, Daniel Gackowski	Detection and quantification of RNA modifications using UPLC-MS/MS
32	Moh Egy Rahman Firdaus , Eliana Dukhno, Piotr Gerlach	Identification of cellular factors associated with the bunyaviral transcription and translation
33	Dominika Maziarz , Karolina Sapoń, Teresa Janas, Tadeusz Janas	Selection of miRNAs specific to exosomal membranes
34	Magdalena Jazurek-Ciesiołka , Adam Ciesiołka, Emilia Kozłowska, Grzegorz Figura, Michał W. Szcześniak, Edyta Kościańska, Paweł Joachimiak, Grażyna Adamek, Izabela Makałowska, Agnieszka Fiszer	New insights into the complexity of SCA3: the contribution of non-coding RNAs
35	Iga Gawrońska , Karolina Sapoń, Teresa Janas, Tadeusz Janas	Effect of polysialic acid and galacturonic acid on RNA binding to exosomal membrane



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POSTER SESSION II

September 29, 2023 18:15 - 22:00

Poster No	Authors	Title
36	Klaudia Staszak , Magdalena Kubiak, Michał Szcześniak, Izabela Makałowska	Non-coding retrogenes in human cancers
37	Alicja Armatowska , Eliza Molestak, Marek Tchórzewski, Stefan Bresson, Jan Słupski, Magdalena Boguta, Małgorzata Cieśla	The linkage between Maf1-mediated control of tRNA transcription and mRNA translation in yeast <i>Saccharomyces cerevisiae</i>
38	Aleksandra Łopusińska , Michał Tys, Magdalena Boguta, Małgorzata Cieśla	Regulation of the RNA polymerase III transcription machinery is dependent on the ubiquitin ligase Rsp5
39	Agnieszka Piasecka , Michał Sekrecki, Arkadiusz Kajdasz, Michał W. Szcześniak, Krzysztof Sobczak	Microtranscriptome of skeletal muscles is regulated by MBNL splicing factors
40	Ewa Tykwińska , Angelika Andrzejewska-Romanowska, Paweł Śledziński, Julita Gumna, Katarzyna Pachulska-Wieczorek	Transcriptome-wide analysis of yeast RNA secondary structures
41	Malak Farhat , Aleksandra Łopusińska, Ewa Leśniewska, Małgorzata Cieśla, Magdalena Boguta	Functional suppression of maf1 deletion mutant of <i>Saccharomyces cerevisiae</i> by overdose of N-terminal domains of the largest Pol III subunit, C160
42	Natalia Gumińska , Katarzyna Matylla-Kulińska, Wiktoria Orzeł, Paweł Krawczyk, Michał Maj, Seweryn Mroczek, Andrzej Dziembowski	Detection of non-adenosine residues within poly(A) tails using Oxford Nanopore direct RNA sequencing & deep learning
43	Angelika Andrzejewska-Romanowska , Julita Gumna, Ewa Tykwińska, Katarzyna Pachulska-Wieczorek	Discovering structural features of the active Ty3 retrotransposon RNA genome
44	Karolina Kasztelan , Aleksander Chlebowski, Tomasz M. Kuliński, Kamila Affek, Andrzej Dziembowski, Roman J. Szczęsny	Identification of proteins involved in the regulation of double-stranded RNA level in the nucleus of human cell
45	Joanna Zwolenkiewicz and Mikołaj Olejniczak	The role of the ProQ protein in RNA-RNA interactions involving small RNAs in <i>Escherichia coli</i>
46	Przemysław Latoch , Olga Iwańska, Mariia Kovalenko, Agata Starosta	TimeSeqR: a comprehensive R package for integrated analysis of transcriptomic and translomic data from time-course RNAseq and RIBOseq experiments
47	Alexander Hammermeister , Agnieszka Broniec, Sebastian Glatt	Structure of the human tRNA methyltransferase complex FTSJ1-THADA
48	Patrycja Świergiel	Elucidating the molecular mechanisms underlying the synthesis of sdRNAs mediated by FUS



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49	Eliana Dukhno , Moh Egy Rahman Firdaus, Piotr Gerlach	Impact of the bunyaviral mRNA 3'UTR on transcription and translation
50	Jan Mikołajczyk and Tomasz W. Turowski	Mapping Active Transcription Sites of Human RNA Polymerase III at Nucleotide Resolution
51	Anna Barczak-Brzyżek , Grzegorz Brzyżek, Marek Koter, Ewa Siedlecka, Piotr Gawroński, Marcin Filipecki	Chloroplast retrograde control of miRNA expression in response to high light stress
52	Paweł Konieczny , Mirosław Cebula, Marta Kot, Klaudia Skrzypek, Marcin Majka	miR-30a conjugated with cholesterol as a novel therapeutic approach in the treatment of rhabdomyosarcoma
53	Bart Krist , Tansu Doran, Katarzyna Czerniak, Yaarob Altalli, Michał Gdula	Epigenetic control of transcription during keratinocyte differentiation
54	Gabriela Machaj , Dariusz Grzebelus, Guillem Ylla	The transcriptomic basis of rhizomania resistance in sugar beet
55	Nikola Musiała and Ewa Stępnia-Konieczna	Endogenous tuning of MBNL1 corrects alternative splicing defects in a cell model of myotonic dystrophy type 1 (DM1)
56	Anna Piaszyk-Borychowska , Kamil Wójcik, Katarzyna Czerniak, Michał Gdula	Role of SmcHD1 in the transcription inactivation and replication timing shift on female X chromosome
57	Marta Walczak and Sebastian Glatt	Structural and functional characterization of the human tRNA thiolation cascade
58	Kinga Gołębiowska and Piotr Gawroński	Arabidopsis Era1 GTPase homolog is involved in 16S rRNA maturation in chloroplasts
59	Ewelina Kałużna , Julian Zacharjusz, Monika Piwecka	Spatial transcriptomics of mouse pituitary gland
60	Renata Grzela, Karolina Piecyk , Anna Stankiewicz-Drogon, Paulina Pietrow, Maciej Lukaszewicz, Karol Kurpiejewski, Paulina Skrzypczyk, Eliza Rajkowska, Edward Darzynkiewicz, Marzena Jankowska-Anyszka	Superior properties of mRNA capped with N2 modified dinucleotide cap analogs
61	Kevork Wakimian , Vladyslava Liudkovska, Maciej Cieśla	Function of SF3 spliceosome toward function of skeletal muscle progenitors
62	Akanksha Jaiswar, Dawid Walerych, Maria Grześ	A comprehensive transcriptome analysis reveals a novel catalog of long non-coding RNAs dependent on driver oncogenes (CMYC, KRAS, mutant p53)
63	Maria M. Guzewska , Krzysztof J. Witek, Elżbieta Karnas, Michał Rawski, Ewa Zuba-Surma, Monika M. Kaczmarek	miR-125b-5p – a mediator of EV biogenesis and secretion at the embryo-maternal interface



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64	Pietro Boccaletto, Filip Stefaniak, Angana Ray, Andrea Cappannini, Sunandan Mukherjee, Elżbieta Purta, Małgorzata Kurkowska, Niloofar Shirvanizadeh, Eliana Destefanis, Paula Groza, Gülben Avşar, Antonia Romitelli, Pınar Pir, Erik Dassi, Silvestro G. Conticello, Francesca Aguilo, Janusz M. Bujnicki	MODOMICS: a database of RNA modification pathways
65	Sunandan Mukherjee , Masoud A. Farsani, Matthias Bochtler, Janusz M. Bujnicki	SimRNA-Cry: a tool for modeling RNA molecules using maps from cryo-electron microscopy
66	Andrea Cappannini , Kevin Mosca ² , Sunandan Mukherjee, S. Naeim Moafinejad, Richard R. Sinden, Veronique Arluisson, Janusz M. Bujnicki, Frank Wien	NACDDB: Nucleic Acid Circular Dichroism Database
67	Angana Ray , Niloofar Shirvanizadeh, Iswarya Pandara Nayaka PJ, Sunandan Mukherjee, Masoud Amiri Farsani, Satyabrata Maiti, Janusz M. Bujnicki	A curated dataset of RNA and RNP 3D structures with biologically relevant assemblies, with chemically modified residues and their unmodified counterparts
68	Tales Rocha de Moura, Nagendar Goud Badepally, Elżbieta Purta , Agata Bernat, Katarzyna Merdas, Janusz M. Bujnicki	3D structure determination of key regulatory RNAs at the 5' and 3' untranslated regions of Flaviviruses
69	Paula Martin-Arroyo, Katarzyna Piętka, Natalia Stróżyńska, Grażyna Leszczyńska, Robert Nowak, Małgorzata Adamczyk	Development of methodology for quantitative analysis of tRNA modifications by nanopore RNA sequencing
70	Sivakumar Krishnamoorthy , Nathalie Idlin, Natalia Stec, Christos Spanos, Nila Roy Choudhury, Chen Zhuo, Juri Rappsilber, Gracjan Michlewski	HuR-targeted Eltrombopag and its implications on autophagy regulation



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