

FEBS PARP2021

ADVANCED COURSE

PARP: Research on the family of poly(ADP-ribose) polymerases

7 - 10 September 2021 | Barcelona, Spain

PROGRAM

Program updated on September, 6, 2021



Federation of European Biochemical Societies
*A charitable organization advancing research in the
molecular life sciences across Europe and beyond.*

Tuesday, 7 September

Wednesday, 8 September

13.00 h - 13.50 h	Welcome and registration
13.50 h - 14.00 h	Opening remarks
14.00 h - 14.10 h	Presentation of FEBS and its activities Antonio Díaz-Quintana, FEBS Member-in-Charge
14.10 h - 15.50 h	STRUCTURAL BIOLOGY (Chair: <i>Ivan Matic</i>)
14.10 h - 14.45 h	Specificity of reversible ADP-ribosylation. <i>Ivan Ahel</i>  <small>Sponsored by: cancers an Open Access journal by MDPI</small>
14.45 h - 15.20 h	Structure and dynamics of the chromatin remodeler ALC1 bound to a PARylated nucleosome (EMBO Young Investigator Lecture). <i>Sebastian Deindl</i>  <small>Sponsored by: EMBO Young Investigators</small>
15.20 h - 15.35 h	RNAylation of proteins – a new posttranslational protein modification mediated by NAD-RNAs and a T4 phage ARTS. <i>Katharina Höfer</i>
15.35 h - 15.50 h	Protein partners of PARP1 and their role in regulation of PARPs' activity. <i>Olga Lavrik</i>
15.50 h - 16.10 h	ROUND TABLE / MEET THE SPEAKERS <i>Ivan Ahel, Sebastian Deindl, Katharina Höfer, Olga Lavrik</i>
16.10 h - 16.30 h	Coffee break
16.30 h - 17.35 h	SIGNAL TRANSDUCTION (Chair: <i>Vera Gorbunova</i>)
16.30 h - 17.05 h	Serine ADP-ribosylation by HPF1/PARP1 as a versatile technology for exploring multiple ADPr signals (EMBO Young Investigator Lecture). <i>Ivan Matic</i>  <small>Sponsored by: EMBO Young Investigators</small>
17.05 h - 17.20 h	Mass-spectrometry based ADP-ribosylome analyses advance our understanding of PARPs and ADP-ribosylation in diverse biological samples. <i>Patrick Manetsch</i>
17.20 h - 17.35 h	35 HPF1-dependent histone ADP-ribosylation triggers chromatin unfolding at sites of DNA damage. <i>Rebecca Smith</i>
17.35 h - 18.00 h	ROUND TABLE / MEET THE SPEAKERS <i>Ivan Matic, Patrick Manetsch, Rebecca Smith</i>
18.00 h - 19.00 h	Welcome reception (<i>PRBB Terrace</i>)

9.00 h - 10.40 h	MONO-ADPR (Chair: Daniela Corda)
9.00 h - 9.35 h	SIRT6 mono-ADP ribosylation activity regulates human longevity. <i>Vera Gorbunova</i>
9.35 h - 10.10 h	Morphological and functional studies of the Mono-ADP-ribosyltransferases of the ARTD family. <i>Daniela Corda</i>
10.10 h - 10.25 h	Investigating Histone mono-ADPribosylation. <i>Edoardo Longarini</i>
10.25 h - 10.40 h	PARP12 as a novel target to breast cancer resistance to chemotherapy. <i>Anupama Pavithran</i>
10.40 h - 11.00 h	ROUND TABLE / MEET THE SPEAKERS <i>Vera Gorbunova, Daniela Corda, Edoardo Longarini, Anupama Pavithran</i>
11.00 h - 11.20 h	Coffee break
11.20 h - 13.00 h	PARP METABOLISM (Chair: <i>Csaba Szaboa</i>)
11.20 h - 11.55 h	The specificity of different NAD ⁺ precursors and their impact on PARP activity. <i>Carles Cantó</i>
11.55 h - 12.30 h	Silencing of PARP2 blocks autophagic degradation and induces mitochondrial biogenesis via reactive species production. <i>Peter Bay</i>
12.30 h - 12.45 h	PARP inhibition promotes the endothelial-like phenotype of melanoma cells and the normalization of pseudovascular channels during vasculogenic mimicry. <i>Mónica Fernández-Cortés</i>
12.45 h - 13.00 h	PARP10-Aurora A cross-talk in the regulation of cell cycle. <i>Simone Di Paola</i>
13.00 h - 13.20 h	ROUND TABLE / MEET THE SPEAKERS <i>Carles Cantó, Peter Bay, Mónica Fernández-Cortés, Simone Di Paola</i>
13.20 h - 14.30 h	Lunch
14.30 h - 16.00 h	FLASH POSTER SESSION (Chair: <i>Peter Bay</i>) (Please, see detailed information in the last page)
16.00 h - 17.30 h	Poster session (<i>Poster area visit and poster discussion</i>)
18.30 h - 20.30 h	Guided walking tour around Barcelona (Meeting point: <i>Course venue reception desk</i>)

Thursday, 9 September

9.00 h - 10.20 h	TRANSCRIPTION (Chair: <i>Sebastian Deindl</i>)	
9.00 h - 9.35 h	PARPs and ADP-ribosylation in Cancer: From Nucleosomes to Ribosomes. <i>Lee Kraus</i>	Sponsored by: 
9.35 h - 9.50 h	The SARS-CoV-2 Nsp3 macrodomain reverses PARP9/DTX3L-dependent ADP-ribosylation induced by interferon signalling. <i>Nicolas Hoch</i>	
9.50 h - 10.05 h	Profiling of PAR-associated proteins from plants unveils roles for PARYlation in transcription, translation and nucleo-cytoplasmic transport. <i>Lennart Wirthmueller</i>	
10.05 h - 10.20 h	Increased PARYlation impacts the DNA methylation process in type 2 diabetes mellitus. <i>Anna Reale</i>	
10.20 h - 10.45 h	ROUND TABLE / MEET THE SPEAKERS <i>Lee Kraus, Nicolas Hoch, Lennart Wirthmueller, Anna Reale</i>	
10.45 h - 11.10 h	Coffee break	
11.10 h - 12.50 h	OTHER FUNCTIONS (Chair: <i>Carles Cantó</i>)	
11.10 h - 11.45 h	Contradictory roles of PARP-1 and PARP-2 in c-Myc-driven B cell lymphomas. <i>José Yélamos</i>	
11.45 h - 12.20 h	PARP12-catalyzed mono-ADP-ribosylation of Golgin-97 controls E-cadherin trafficking and formation of adherens junction. <i>Giovanna Grimaldi</i>	
12.20 h - 12.35 h	Selective PARP2 inhibition hampers pancreatic cancer tumorigenesis and progression. <i>Neus Martínez-Bosch</i>	
12.35 h - 12.50 h	The role of S100A12 and TLR4 in assessment of disease activity in familial mediterranean fever (FMF) and juvenile idiopathic arthritis (JIA). <i>Seyma Dumur</i>	
12.50 h - 13.10 h	ROUND TABLE / MEET THE SPEAKERS <i>José Yélamos, Giovanna Gramaldi, Neus Martínez-Bosch, Seyma Dumur</i>	
13.10 h - 14.15 h	Lunch	
14.15 h - 15.30 h	DNA DAMAGE RESPONSE I (Chair: <i>Dea Slade</i>)	
14.15 h - 14.30 h	Genetic dissection of PARP1 and poly(ADP-ribosylation). <i>Zhao-Qi Wang</i>	
14.30 h - 14.45 h	Linking DNA repair and cell cycle progression through serine ADP-ribosylation of histones. <i>Nick Lakin</i>	
14.45 h - 15.00 h	The absence of PARP3 promotes genome instability and tumour aggressiveness in human prostate cancer cells. <i>Daisy Harwood</i>	
15.00 h - 15.15 h	The PARP/NAD ⁺ /SIRT6 axis modulates the temporal dynamics of base excision / single-strand break repair protein complex assembly and disassembly. <i>Robert Sobol</i>	
15.15 h - 15.30 h	The poly(ADP-ribosylation) by PARP1 and PARP2 controls step-by-step base excision repair in the nucleosomal context. <i>Ekaterina Belousova</i>	
15.30 h - 16.00 h	ROUND TABLE / MEET THE SPEAKERS <i>Zhao-Qi Wang, Nick Lavin, Françoise Dantzer, Robert Sobol, Ekaterina Belousova</i>	
16.00 h - 16.30 h	Coffee break	
16.30 h - 17.35 h	DNA DAMAGE RESPONSE II (Chair: <i>Lee Kraus</i>)	
16.30 h - 17.05 h	PARP1 targets in transcriptio elongation. <i>Dea Slade</i>	Sponsored by: 
17.05 h - 17.20 h	PARP-1 involves to regulate UVB-induced inflammatory response and differentiation in human keratinocytes. <i>Wan-Wan Lin</i>	
17.20 h - 17.35 h	Detection of RAD51 and BRCA1 nuclear foci to understand mechanisms of resistance to PARPi and platinum salts <i>Andrea Herencia-Roper</i>	
17.35 h - 18.00 h	ROUND TABLE / MEET THE SPEAKERS <i>Dea Slade, Wan-Wan Lin, Andrea Herencia-Roper</i>	
20.30 h - 22.00 h	Course dinner (Restaurant Arenal- Passeig Marítim de la Barceloneta, s/n, Barcelona)	

Friday, 10 September

DETAILED SCHEDULE - FLASH POSTER SESSION

9.00 h - 10.40 h	TRANSLATION I (Chair: <i>Neus Martínez-Bosch</i>)
9.00 h - 9.35 h	PARP inhibition for treating prostate cancer. <i>Johann de Bono</i> Sponsored by: 
9.35 h - 10.10 h	Repurposing of PARP inhibitors for the experimental therapy of critical illness. <i>Csaba Szabo</i>
10.10 h - 10.25 h	Towards the discovery of specific inhibitors for ADP-ribosylhydrolysing macrodomains. <i>Sarah Wazir</i>
10.25 h - 10.40 h	A potent and selective PARP14 inhibitor decreases protumor macrophage gene expression and elicits inflammatory responses in tumor explants. <i>Mario Niepel</i>
10.40 h - 11.00 h	ROUND TABLE / MEET THE SPEAKERS <i>Johann de Bono, Csaba Szabo, Sarah Wazir, Mario Niepel</i>
11.00 h - 11.20 h	Coffee break
11.20 h - 13.15 h	TRANSLATION II (Chair: <i>José Yélamos</i>)
11.20 h - 11.55 h	Exploring the Therapeutic Potential of PARPi Beyond PARP1 Inhibitors. <i>Heike Keilhack</i> Sponsored by: 
11.55 h - 12.10 h	Inhibition of a IFN γ -induced macroPARP restores response to anti-PD1 immune checkpoint inhibition. <i>Chun Wai Wong</i>
12.10 h - 12.25 h	Effects of PARP inhibitors on the regulation of ABC transporter expression in breast cancer cells. <i>Magdalena Strachowska</i>
12.25 h - 12.40 h	Rucaparib treatment attenuates proteolysis and autophagy in peripheral and respiratory muscles in cancer-cachexia mice. <i>María Pérez-Peiró</i>
12.40 h - 13.15 h	Durability of PARPi action and implications for cancer therapy. <i>Sweta Sharma Saha</i> Sponsored by: 
13.15 h - 13.35 h	ROUND TABLE / MEET THE SPEAKERS <i>Heike Keilhack, Chun Wai Wong, Magdalena Strachowska, María Pérez-Peiró, Sweta Sharma Saha</i>
13.35 h - 13.40 h	Closing remarks

P01	PARP1 inhibition augments UVB-mediated mitochondrial changes – implications for UV-induced DNA repair and photocarcinogenesis. <i>Peter Bay</i>
P02	Functional analysis of PARP1 in NK cells in the context of inflammation and tumorigenesis. <i>Flurina Böhi</i>
P03	Chromatin remodeling by the PAR-dependent remodeler ALC1 depends on its interaction with the nucleosome acidic patch. <i>Guillaume Gaullier</i>
P04	Effects of PARP inhibition in a neonatal mouse model of ischemic stroke: Male versus female microglia. <i>Maeva Palayer</i>
P05	Specific PARP-2 genetic deletion restrains the development of c-Myc-driven B cell lymphomas in mouse. <i>Miguel A. Galindo-Campos</i>
P06	PARP-1 deficiency accelerates lymphomagenesis in a mouse model of B cell lymphoma. <i>Nura Lutfi Royo</i>
P07	Macrodomain hydrolase SCO6735 from <i>Streptomyces coelicolor</i> reverses genotoxic stress induced by T-linked DNA ADP-ribosylation. <i>Petra Mikolcovic</i>
P08	Structural insights into the oncogenic chromatin remodeler ALC1 bound to a PARylated nucleosome. <i>Luka Bacic</i>
P09	Tracking DNA damage depending ADPr histone marks with novel antibodies. <i>Helen Dauben</i>
P10	Effect of PARP inhibition and nocodazole treatment on cell-cycle regulation in cancer cells. <i>Aung Bhone Myat</i>
P11	In vitro cellular profiling of AZD5305, novel PARP1-selective inhibitor and trapper. <i>Giuditta Illuzzi</i>
P12	Regulation of poly(ADP-ribose) polymerase 1 activity by Y-box-binding protein 1. <i>Konstantin Naumenko</i>
P13	PARP-1 involves to regulate UVB-induced inflammatory response and differentiation in human keratinocytes. <i>Ling Ya Chiu</i>
P14	Parg-deficient ES cells show reduced tumorigenicity and the augmented anti-tumor therapeutic effects. <i>Takae Onodera</i>
P15	Dysfunction of dual specificity phosphatase 22 (DUSP22) and poly(ADP-ribose) glycohydrolase (PARG) induces synthetic lethal effects in lung cancer cell lines. <i>Yuka Sasaki</i>

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<https://parp2021.febsevents.org/>



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