



Program



5th International Conference on Integrative Chemistry, Biology & Translational Medicine



Debrecen, Hungary, 25-27 June 2026



दिल्ली विश्वविद्यालय
University of Delhi

MTA HUNGARIAN
ACADEMY
OF SCIENCES

1 st day 25 th of June, Thursday				
11:00 - 16:00	Registration			
13:00 - 13:15	Opening ceremony 0.14 Lecture hall	László Csernoch, Ildikó Bácskay, Brijesh Rathi, Anikó Borbás		
	Chairs: Ildikó Bácskay, Anikó Borbás, Brijesh Rathi			
	Lecturer	Lecture title		
13:15 - 14:00	Plenary lecture Jayanta Haldar	Targeting the cell envelope: a versatile antibacterial strategy		
14:00 - 14:45	Plenary lecture Caitriona M. O'Driscoll	Cyclodextrin nanoparticles: advancing RNA medicines for chronic diseases		
14:45 - 15:15	Coffee break			
	0.14 Lecture hall	Chair: Peter Preiser co-chair: Vishal Rai	1.03 Lecture hall	Chair: Marko Anderluh co-chair: Ilona Bakai-Bereczki
	Lecturer	Lecture title	HUPHAR special session	Lecture title
15:15 - 15:45	Keynote lecture Jan Weber	Targeting methyltransferases of SARS-CoV-2 and monkeypox virus	Keynote lecture Anil Chuturgoon	Fumonisin B1, a common food toxin, induces cellular epigenetic changes that predispose to toxicity and disease
15:45 - 16:15	Keynote lecture Lindomar Pena	A journey through viruses and public health	Keynote lecture Jadwiga Handzlik	Single- or multitargeting 1,3,5-triazine ligands for serotonin 5-HT6 receptor in search for innovative therapy of Alzheimer's disease
16:15 - 16:30	Martin Zoltner	Targeting a unique mRNA decapping enzyme for trypanosomatid infectious disease drug discovery	Krisztina Mária Szabó	Impact of sacubitril/valsartan therapy on left ventricular reverse remodelling and clinical outcomes in patients with CRT nonresponders and HFrEF patients without CRT indication
16:30 - 16:45	Ferenc Dániel Petróczi	Synthesis and antimalarial activity of water-soluble cannabinoids	Gyula Batta	Functional dynamics in binding of a cell-wall analogue peptide to the glycopeptide antibiotic eremomycin: a ¹⁵ N NMR relaxation study
17:00 - 17:10	Break			
17:10 - 18:10	Poster Session (Learning Center Entrance hall)*			
18:15 -	Welcome Reception (Learning Center)			

***List of poster presentations:**

- **Alshimaa I. Zaki:** Synthesis and biological evaluation of half-sandwich type platinum-group metal complexes of *N*-β-D-disaccharidyl 1,2,3-triazoles
- **Balázs Nagy:** Synthesis of carbohydrate-containing 1,4-disubstituted triazoles and their evaluation as galectin inhibitors
- **Barbara Balogh:** Development and characterization of topical formulations containing combined *Artemisia annua* and *Curcuma longa*
- **Benedek Máté Nagy:** Lipophilic modification of teicoplanin with natural steviol and cannabinoid derivatives
- **Devesh Panchal:** Synthesis of guanidine-based molecules via desulfonative smiles rearrangement
- **Dorota Łażewska:** Search for agonists of the orphan G protein-coupled receptor GPR18
- **Edvin Purić:** Galectin-8: Moving from inhibition toward targeted protein degradation

- **Krisztián Zoltán Juhász:** Septins couple calcium signalling to mitochondrial metabolism during chondrogenesis: an isoform-selective pharmacological dissection
- **Krisztina Bodnár:** Comparison and evaluation of the efficacy of topical drug formulations containing diclofenac
- **Krisztina Rebeka Leiner:** Glycopeptide antibiotics derivatives antiviral activity against Alphaviruses on different cell lines
- **Muhammad Raza Saleem:** Synthesis and stereochemical investigation of axially chiral biaryls containing (1*R*,3*R*)-1-aryliso chroman subunit
- **Parul Panwar:** An efficient synthesis of pyridine-based thioamides using elemental sulphur in aqueous medium
- **Péter Soma Szakály:** Use of cyclodextrins as comprehensive series of reliable collision cross section calibrants in ion mobility–mass spectrometry
- **Samreen Saifi:** Synthesis and biological evaluation of (β-D-galactopyranosyl)oxadiazole, -isoxazole, and -isoxazoline derivatives targeting galectins
- **Shilpa:** Codon usage analysis of influenza A virus
- **Zoltán Kopasz:** Antiviral activity against wild-type Lloviu cuevavirus in a bat-derived cell model
- **Zsófi Püspöki:** Synthesis of C-3'-substituted thiodigalactoside derivatives as potential galectin-8 inhibitors
- **Zsuzsanna Szabó:** Biological effects of novel cannabigerol derivative PFD 45/I on renal cell carcinoma cells

2 nd day					
26 th of June, Friday Morning					
	0.14 Lecture hall				
	Chair: Jayanta Haldar, co-chair: Jan Weber				
	Lecturer	Lecture title			
9:00 - 9:45	Plenary lecture Roland Pieters	Inhibiting protein carbohydrate binding by multivalency, virtual screening and DNA-encoded libraries			
9:45 - 10:15	Keynote lecture Michaela Wimmerova	Carbohydrate-mediated host recognition by microbial lectins: structural insights and inhibition strategies			
10:15 - 10:45	Coffee break				
0.14 Lecture hall	Lecturer	Lecture title	Exam hall 2 nd floor	Lecturer	Lecture title
	Chair: Michaela Wimmerova, co-chair: Brijesh Rathi			IV. Conference on Therapeutical Purposes (1 st Session)	
10:45 - 11:15	Keynote lecture Seonghun Kim	Edible mushroom lectins and glycans promising therapeutic substances in human health		(Project no. TKP2021-EGA-18 and TKP2021-EGA 19 has been implemented with the support provided by the Ministry of Culture and Innovation of Hungary from the National Research, Development and Innovation Fund, financed under the TKP2021-EGA funding scheme)	
				Chair: Dr. Ildikó Bácskay, co-chair: Prof. Dr. Rudolf Gesztelyi	
			10:45-10:50	Prof. Dr. Szilvássy Zoltán (Head of the Thematic Area) Prof. Dr. Ildikó Bácskay (Deputy Head of the Thematic Area)	Welcome remarks
			10:50-11:05	Dr. Ágnes Rusznyák (Therapeutical purposes research group)	Sweet carriers: cyclodextrin polymers in the design of novel RNA delivery systems
11:15- 11:45	Keynote lecture Marko Anderluh	Galectin-8-targeting probes: small-molecule inhibitors versus PROTACs versus multivalent systems	11:05-11:20	Prof. Dr. Miklós Vecsernyés (Oral Peptide development research group)	TT-232, a somatostatin analogue levels in blood and cerebrospinal fluid after various administrations
			11:20-11:35	Dr. Beatrix Dienes (Skeletal muscle research group)	The mechanosensitive Piezo1 channels contribute to the arterial medial calcification
11:45 - 12:15	Keynote lecture Vishal Rai	Precision engineering of proteins in vitro, in live cells, and in vivo	11:35-11:50	Prof. Dr. Rudolf Gesztelyi (Development of natural active ingredients Research Group)	Effect of some popular natural active ingredients of dietary supplements on the endothelial function of isolated rat aorta
			11:50-12:05	Dr. László Kardos (Infectology Research Group)	From poorly structured clinical patient records to analyzable variables: challenges and solutions
12:15 - 12:25	Break				
12:25 - 13:30	Lunch				
2 nd day					

26 th of June, Friday Afternoon						
	Young Researchers' Forum (1 st session) 1.03 Lecture hall		Annual Meeting of the Carbohydrate, Nucleic Acid and Antibiotics Working Committee of the Hungarian Academy of Sciences (1 st session) 0.14 Lecture hall		IV. Conference on Therapeutical Purposes (2 nd session) Exam hall 2nd floor	
	<i>Chair: Zsolt Szakonyi, co-chair: Jadwiga Handzlik, co-chair: István Bak co-chair: Ronaldo N. de Oliveira</i>		<i>Chair: Anikó Borbás, co-Chair: Lajos Kovács</i>		<i>Chair: Prof. Dr. Ildikó Bácskay, co-chair: Dr. Pálma Fehér</i>	
13:30 - 13:45	Keynote lecture Ronaldo N. de Oliveira	Synthesis and biological evaluation of heterocyclic scaffolds as potential agents against infectious diseases	Closed meeting		Prof. Dr. Dénes Páll (Non-Pharmacological Therapies Research Group)	A brief overview of the research group's work
13:45 - 14:00					Prof. Dr. Béla Juhász (Hybrid Choice research group)	Therapeutic aspects of <i>Prunus cerasus</i> extract in a rabbit model of atherosclerosis-associated diastolic dysfunction
14:00 - 14:15	Mansi Verma	Evolutionary adaptation and host-virus dynamics in emerging RNA viruses	Keynote lecture Barbara Richichi	The functional landscape of glycomimetics in translational glycobiology	Dr. Rita Kiss (Development of natural active ingredients Research Group)	Evaluation of <i>Echinacea</i> leaf extract and allantoin based topical formulations in an imiquimod-induced psoriasis-like model
14:15 - 14:30	Ankush Gupta	Umpolung reactivity of nitromethyl group for the selective synthesis of -S and -N Heterocyclic			Dr. Zsolt Ráduly (Genome Structure, and Recombination Research Group)	IDO1 driven metabolic and transcriptional programs slow migration and growth in breast cancer
14:30 - 14:45	Nguyen Thi Cam Tu	Synthesis of argolide-derived conjugates by “Click” chemistry	Miklós Lovas	Neuraminidase inhibitor-based hydrophobic tags	Dr. András Szilágyi (Development of natural active ingredients Research Group)	Post-COVID otolaryngological syndrome and post-vaccine tinnitus
14:45 - 15:00	Richárd Kajtár	Cardioprotective potential of fluorinated cannabinoids in H9c2 cells	Nawar Ahmad	Harnessing oxa-Pictet-Spengler, Pictet-Spengler, and thiol-ene coupling reactions to construct thioglycoside-heterocycle conjugates as <i>Pseudomonas aeruginosa</i> LecA and LecB inhibitors		
15:00 - 15:20	Coffee break					

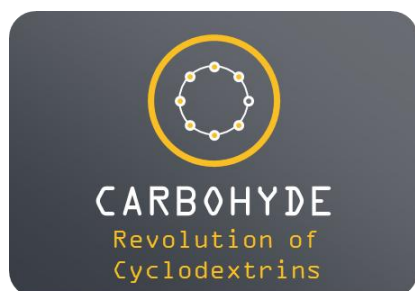
	Young Researchers' Forum (2 nd session) 1.03 Lecture hall		Annual Meeting of the Carbohydrate, Nucleic Acid and Antibiotics Working Committee of the Hungarian Academy of Sciences (2 nd session) 0.14 Lecture hall		IV. Conference on Therapeutical Purposes (3 rd session) Exam hall 2nd floor	
	<i>Chair: Zsolt Szakonyi,</i> <i>co-chair: Jadwiga Handzlik,</i> <i>co-chair: István Bak</i> <i>co-chair: Ronaldo N. de Oliveira</i>		<i>Chair: László Somsák,</i> <i>co-chair: Éva Bokor</i>		<i>Chair: Prof. Dr. Ildikó Bácskay,</i> <i>co-chair: Prof. Dr. Béla Juhász</i>	
15:20 - 15:35	Himanshi Sharma	Metal-free construction and diversification of aminated isoquinoline frameworks in aqueous medium	Rasha Ghanem Kattoub	New class of uridine- and adenosine-based morpholino-nucleosides as potential anti-SARS-CoV-2 agents	Prof. Dr. Zoltán Szabó, Dr. Balázs Palcsik (Research Group on Cardiological and Pulmonary Complications)	Survey of cardiopulmonary status and arrhythmia risk of patients who had a SARS-CoV-2 infection
15:35 - 15:50	Padam Raj Bhatt	Divergent synthesis of thioamides via umpolung C-N bond formation	István Kacsir	Synthesis and galectin inhibitory activity of new β -D-galactopyranosyl azoles	Prof. Dr. Attila Bácsi (Hybrid Choice Research Group)	Comprehensive analysis of humoral and cellular immune responses induced by SARS-CoV-2 vaccines
15:50 - 16:05	Mohammadamin Biglarikhoshmaram	Repurposing SGLT2 inhibitors to mitigate doxorubicin-induced cardiac injury: focus on Dapagliflozin and Empagliflozin	Ágnes Homolya	Photoinitiated thiol-ene reactions of glycals for the synthesis of galectin inhibitors	Dr. Eszter Lilla Tóth (Pregnant Women Research Group)	COVID-19-associated coagulopathy in pregnancy: a prospective, case-control study
16:05 - 16:20	Simon Eskeif	EV-34, a novel H ₂ S-releasing ibuprofen derivative, protects against doxorubicin-induced cardiotoxicity via PI3K/AKT/FoxO3a and AMPK signaling	Lajos Kovács	i-Motif studies: synthetic and biochemical	Dr. Miklós Zrínyi (Research Group on Data Analysis of Moderate and Severe COVID-19 Patients)	A brief overview of the research group's work
16:20 - 16:35	Zsannett Szilágyi	Steady-state concentrations of clarithromycin under different routes of administration in pneumonia: risk-factors and clinical outcomes	István Kése	Synthesis of novel alkylthioether-alpha-cyclodextrin derivatives and their impact on bacterial biofilm formation		
16:35 - 16:50	Mária Fanni Boncz	Synthesis and investigation of α -santonin derivatives linked to N-, S- and O-heterocycles via a 1,2,3-triazole linker	Zsolt Ürögi	β -Cyclodextrin dimers: complexation and enantiomer recognition of chiral cationic and anionic APIs using capillary electrophoresis		
16:50- 17:05	Bálint Lakó	In vitro antiproliferative effects of novel 5-fluorouracil derivatives on HeLa cell line	Viktória Goldschmidt Gőz	Conformation-activity relationships in synthetic heparin pentasaccharides revealed by integrative structural analysis		
17:05- 17:20	Boglárka Polónyi	Antioxidant and anti-inflammatory effects of newly synthesized CBG/CBD derivatives				
17:20- 19:00	Break					
19:00 -	Gala dinner (Main Building of the University of Debrecen, Egyetem tér 1. 3 rd floor)					

3 rd day 27 th of June, Saturday		
	0.14 Lecture hall	
	<i>Chair: Roland Pieters, co-chair: Caitriona M. O'Driscoll</i>	
9:00 - 9:45	Plenary lecture Peter Preiser	Discovering new target space for the development of drugs against malaria parasites
9:45 - 10:15	Keynote lecture Brijesh Rathi	Development of novel multistage antimalarials: lead optimization to clinical candidacy
10:15 - 10:45	Keynote lecture Pulin K. Gupta	Translational research in HIV/AIDS and its role in changing clinical practices
10:45 – 11:15	Ravi Durvasula	<i>Clostridioides difficile</i> : an emerging global pathogen and a model organism for one health approaches to human disease
11:15 - 11:30	Closing ceremony and Announcement of Poster Session Winner	
11:30 -	Excursion to Hortobágy	

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