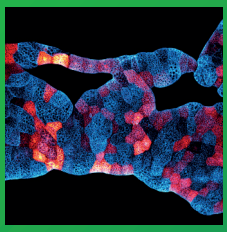
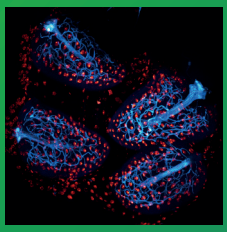
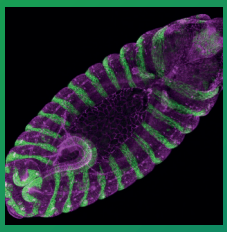
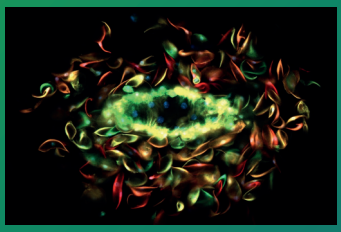
Programme

Hungarian Molecular Life Sciences 2023

24-26 March 2023
Eger, Hungary

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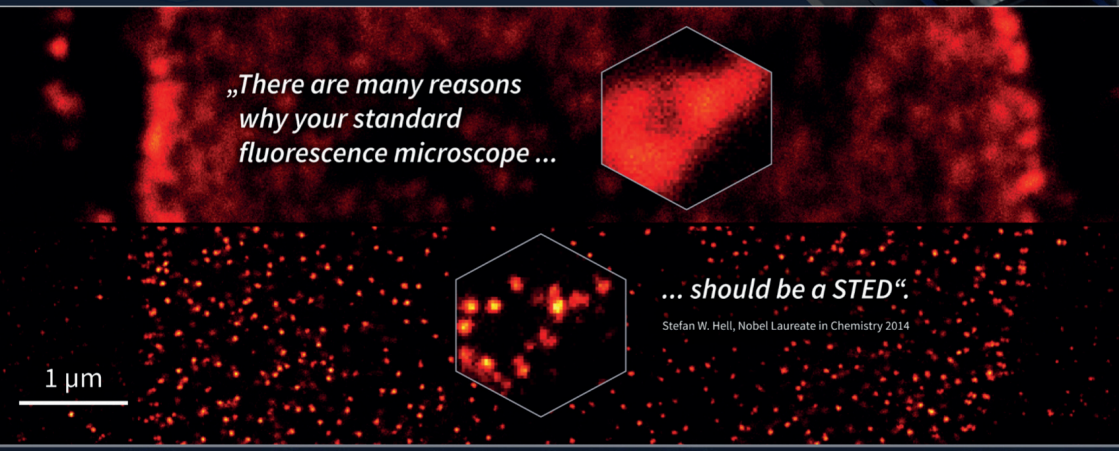

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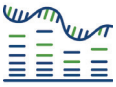
Novogene is a leading provider of genomic services and solutions with cutting edge Next Generation Sequencing (NGS) and bioinformatics expertise. With clinically certified laboratories and one of the largest sequencing capacities in the world, we utilise our **deep scientific knowledge, first-class customer service and unsurpassed data quality** to help realise our clients their research goals in the rapidly evolving world of genomics. With over 2,000 employees, multiple locations around the world and over 790 publications in top tier journals such as Nature and Science, we are a world-leader in providing NGS services.

Genomics

Comprehensive genome coverage for identification of SVs, SNPs and InDels



Transcriptomics

Analysis of all RNA types to provide a global map of transcript levels and interactions

Epigenomics

WGBS, ChIP-seq & RIP-seq for methylation and protein interaction analysis

Metagenomics

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További információkért és demo készülék kipróbálásával kapcsolatosan érdeklődjön Imri Ádám termékmenedzsernél az alábbi elérhetőségek bármelyikén:
Tel.:+36 30 700 4659, email: info@kvalitex.hu

CLINOMICS EUROPE

ÚTTÖRŐ A PRECÍZIÓS GYÓGYÁSZATBAN

Kik vagyunk?

A **Clinomics Europe** vezető szerepet tölt be a **multiomikán alapuló molekuláris diagnosztikában** és **precíziós gyógyászatban**. Innovatív orvosi biotechnológiai vállalatunk 2021 júniusában alakult a koreai, elsősorban **folyadékbiopsziával** foglalkozó Clinomics Inc. első európai uniós leányvállalataként. Célunk, hogy a legkorszerűbb molekuláris diagnosztikai módszerek alkalmazásával és fejlesztésével hozzájáruljunk társadalmunk egészséges jövőjéhez.

Mit kínálunk?

CD-PRIME: FOLYADÉKBIOPSZIA A RÁKDIAGNOSZTIKA SZOLGÁLATÁBAN

A **folyadékbiopszia** innovatív, a hagyományos biopsziához képest **minimálisan invazív** módszer a **CTC**-k (keringő tumorsejtek), illetve **ctDNA** (keringő tumor-DNS) izolációjára, számtalan új lehetőséget nyitva a **rákdiagnosztikában** és **-kutatásban**. Integrált, mikrofluidikai techonlógiára épülő platformunk, a **CD-Prime** fizikai jellemzők alapján, gyorsan és egyszerűen **dúsítja a CTC-ket** kezeletlen vérmintából, melyek így integritásukat megőrizve állnak rendelkezésre további vizsgálatokra.

KUTATÁSI SZOLGÁLTATÁSOK: EGYEDI MEGOLDÁSOK EGYEDI PROJEKTEKHEZ

Gazdag eszközparkunk rengeteg különböző **tudományos projekt** során nyújthat segítséget, többek közt:

- **keringő nukleinsavak** extrakciójában folyadékbiopsziás módszerekkel; **CTC**-k vérmintából történő dúsításában; **extracelluláris vezikulák** tisztításában; nukleinsavak mennyiségének és minőségének mérésében; különféle downstream elemzésekben (**qPCR, digitális PCR, NGS**); **bioinformatikában**.

MOLEKULÁRIS GENETIKAI DIAGNOSZTIKA

A legmodernebb diagnosztikai módszereket alkalmazva **gyors, szakmailag megbízható** eredményt biztosítunk **5 munkanapon belül** az alábbi területeken:

- *Kardiovaszkuláris kórképek, trombózishajlam*
- *Családtervezés, infertilitás*
- *Rákhajlam és folyadékbiopszia alapú rákszűrés*
- *Nutrigenetika*
- *Sportgenetika*

LABORATÓRIUMI ESZKÖZÖK ÉS REAGENSEK

Elérhetőek nálunk **automata nukleinsav-izoláló** rendszerek, molekuláris genetikai és mikrobiológiai **PCR kitek**, **mikroRNS** expressziós analízishez szükséges reagensek, ezen felül általános laboratóriumi **reagensek, oligonukleotidok és primer próbák**. A teljes választék megtekinthető weboldalunkon!

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GENERAL INFORMATION

CONFERENCE ORGANISERS

Magyar Biokémiai Egyesület (Hungarian Biochemical Society)

Magyar Genetikusok Egyesülete (Hungarian Genetics Society)

ORGANISING COMMITTEE

László Buday[1], Gábor Juhász[2], Beáta Lontay[3], József Mihály[2], Rita Sinka[4], László Virág[3]

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http://www.ttk.hu/ei/en/

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Temesvári krt. 62., Szeged H-6726
http://www.brc.hu/en

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Egyetem tér 1., Debrecen H-4032
https://chemistry.med.unideb.hu/en

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Középfasor 52, Szeged H- 6726
https://u-szeged.hu/

TECHNICAL ORGANISERS

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Tel: +36-1-225-0209
elesetele@diamond-congress.com
https://www.diamond-congress.hu/

WEBSITE OF THE CONFERENCE

https://www.hunlifesci.hu

WEBSITE OF THE HUNGARIAN BIOCHEMICAL SOCIETY

http://www.mbkegy.hu

WEBSITE OF THE HUNGARIAN GENETICS SOCIETY

http://www.magenegy.hu/hu/

VENUE

Hotel Eger-Park
3300 Eger
Szálloda utca 1-3.
Tel.: +36-36/522-200

OPENING HOURS OF THE REGISTRATION

Friday, 24 March, 2023	12.00 – 18.00
Saturday, 25 March, 2023	08.30 – 18.00
Sunday, 26 March, 2023	08.30 – 13.30

ONSITE CONTACT NUMBERS

Éles-Etele Nóra / Varga Attila
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Diamond Congress Ltd.

OFFICIAL LANGUAGE

Official language of the Conference is English (no translation is available).

Registration fee (incl. VAT)	Payment till 15 February	Payment after 15 February
Registration fee for industrial participants	101.000 Ft	111000 Ft
Registration fee for senior researchers*	95.000 Ft	105.000 Ft
Registration fee for junior researchers**	71.000 Ft	79.000 Ft
Registration fee for exhibitors	71.000 Ft	71.000 Ft
Registration fee for accompanying persons	63.000 Ft	63.000 Ft

*Only for participants with academic background

**Junior researcher: Ph.D. and university student, or researcher under 30;

Registration fees include admission to the scientific sessions, conference materials, admission to the exhibition, welcome reception, banquet dinner, coffee breaks, lunches.

Accompanying persons' registration fee and exhibitor's registration fee is not valid for admission to the scientific part of the Conference, and these fees do not include conference materials, only meals and social events.

ORAL PRESENTATIONS (PL-1 – PL-4, O-01 – O-60)

The schedule of the oral presentations can be seen in the detailed programme of this booklet. Speakers and session chairs are kindly requested to keep the time of the presentations. Make sure to bring your presentation file written on a USB flash drive. Presenters are kindly requested to give their presentation file to the technicians in the lecture rooms preferably half day before beginning of the corresponding session.

Oral presentations: Congress Hall, Session Room Liget I.

POSTER PRESENTATIONS (P-001 – P-145)

Poster presenters of ODD poster numbers are kindly requested to mount their posters before the opening of the conference (or latest during the coffee break in the afternoon) and remove them on Saturday /25 March/ till 11:00 the latest (during the coffee break), to enable the authors of the next poster session to mount their posters in time.

Poster presenters of EVEN poster numbers are kindly requested to mount their posters on Saturday /25 March/ from 13:30 before the afternoon session starts and remove them latest at lunch time on Sunday /26 March/.

Posters will be identified by poster numbers, which are indicated in the programme booklet and in the conference application.

For mounting and removing the posters, please take it into consideration, that there will be oral presentations in the room! Please use the breaks for these actions. Also please use the poster sessions and breaks for discussions.

Poster sessions: Room Liget I. and Liget corridor

Pins are to be provided to fix the posters by the technical organisers.

Authors of ODD number posters will present their work between 20:00-22:00 on Friday, 24 March. Authors of EVEN number posters will present their work between 16:45-19:00 on Saturday, 25 March.

EXHIBITON

In accordance with the conventions of the conference, parallel to the scientific sessions a professional exhibition is to be organised. Please have a look at the exhibition floor plan of the booklet.

ACCOMMODATION

Hotel rooms are booked under the name of the participants. Conference participants may occupy the rooms from 14:00 on the day of arrival and should arrange the check out until 10:00. The hotel ensures a luggage room. The parking lot of the hotel is available for our participants free of charge. Guests are kindly requested to settle their extra room bills (such as phone calls, drinks and minibar) prior to departure.

The room prices include buffet breakfast, VAT, city tax and the usage of wellness facilities (pools, jacuzzi, sauna park and steam bath).

SOCIAL PROGRAMMES *(incl. in the registration fees)*

Friday, 24 March, 2023	Welcome dinner (Restaurant of Hotel Park)
Saturday, 25 March, 2023	Banquet (Congress Hall of Hotel Eger)
Saturday & Sunday, 25-26 March, 2023	Lunches (Restaurant of Hotel Park)
Friday - Sunday, 24-26 March, 2023 (indicated in the programme)	Coffee breaks (Conference level of Hotel Eger)

All participants and accompanying persons will receive a personal badge upon registration. You are kindly requested to wear your name badge when attending the meetings or social events.

Extra consumption, which is not included in the menus are kindly requested to settle prior to departure.

CANCELLATION POLICY

Cancellations on registration and hotel reservation can be made only in writing. The refund for cancellations made prior to 25 February, 2023 is 85%. After this date the conference secretariat has to pay the advanced payments to the hotel, and there is no way to refund in case of latter cancellation.

PAYMENT, INVOICES

The price of the ordered services will be indicated on the final invoice according to the Hungarian official financial rules. Official final invoices and receipts for fees paid by the participants are sent by e-mail right after the payment arrives to our bank account. Please forward them to the financial department of your institution.

LIABILITY AND INSURANCE

The organisers cannot accept liability for any personal accidents, loss of belongings or damage to private property of participants and accompanying persons that may occur during the conference.

EVENT APPLICATION AND QR CODE HUNTING

The conference is supported by SmartEvents© mobile application. Using the application is free and voluntary for all registered delegates and the content used therein is accessible only for 'Hungarian Molecular Life Science Conference 2023' participants. The application helps the delegates to find all information regarding the event, manage the daily agenda, download materials, communicate with all the other participants on the event and more.

We offer the conference delegates a fantastic QR CODE HUNTING game. After downloading the event application participants can visit the exhibitors and scan the individual exhibitor's QR code with their mobile device. Everybody who has visited at least 15 exhibitors, will automatically be entered to win a PRIZE! Valuable prizes will be drawn during the Banquet /25 March/, so make sure to scan the codes till the dinner.

Day 1 – Friday, 24 March 2023

14:30		**Opening**
Plenary session / Congress Hall *Chair: József Mihály*		
14:40	**PL-1**	**Mechanisms of selective autophagy** Sascha Martens
15:20	**PL-2**	**Chromosomal R-loops: Who are they?** Lóránt Székvölgyi
Company talks / Congress Hall		
16:00		**Powerful digital insights to accelerate data analyses precision and interpret results with confidence** BioMarker Erika Tóth
16:15		*Coffee break*

Day 1 – Friday, 24 March 2023

Molecular mechanism of diseases I./ Congress Hall
Chair: László Virág

17:00	**O-01**	**Inflammasome activation in peritumoural astrocytes augments proliferation of breast cancer cells in the brain** Ádám Mészáros, Kinga Molnár, Csilla Fazakas, Adél Lüvi, László Tiszlavicz, Attila E Farkas, Imola Wilhelm, István Krizbai
17:20	**O-02**	**L-amino acid transporters are required for efficient thermogenesis in human adipocytes during adrenergic stimulation** Rini Arianti, Boglárka Ágnes Vinnai, Rahaf Al Rifai, Szilárd Póliska, Ádám Anderko, Éva Csősz, László Fésüs, Endre Kristóf
17:35	**O-03**	**Acute and long-lasting immunological changes in prostate cancer patients treated with three different radiotherapy protocols** Katalin Balázs, Zsolt Jurányi, Zsuzsa Kocsis S, Géza Sáfrány, Katalin Lumniczky
17:50	**O-04**	**Application of chimera antigen receptor expressing macrophages in tumour cell killing** Endre Kókai
18:05	**O-05**	**Angiotensin II-induced systemic inflammation enhances C3a-mediated vasoconstriction in mice** Imre Babay, Nóra Melinda Kerkovits, Csillag Virág Tóth, Gábor Szénási, Mónika Kosztelnik, Zoltán Benyó

18:30		***Welcome dinner***
20:00		Poster discussion with drinks – ODD number posters

Day 1 – Friday, 24 March 2023

Protein structure & Proteomics I. / Room Liget I.
Chair: Mihály Kovács

17:00	**O-06**	**Intracrine signaling of IL-2 membrane receptors** Julianna Volkó, Ádám Kenesei, Meili Zhang, Péter Várnai, Gábor Mocsár, Boglárka Bozsó, Michael N Petrus, Károly Jambrovics, Zoltán Balajthy, Andrea Bodnár, Katalin Tóth, Thomas A Waldmann, György Vámosi
17:20	**O-07**	**Structure and function relationships of ABC transporters involved in sterol transport** Zoltán Hegyi, Tamás Hegedűs, László Homolya
17:35	**O-08**	**Structure and function of Semaphorin-5A glycosaminoglycan interactions** Gergely Nandor Nagy, Xiao-Feng Zhao, Richard Karlsson, Karen Wang, Henrik Clausen, Rebecca Louise Miller, Roman Giger, Edith Yvonne Jones
17:50	**O-09**	**MAP kinase-mediated activation of RSK1 and MK2 substrate kinases** Péter Sok, Gergő Gógl, Anita Alexa, Klára Kirsch, Attila Reményi
18:05	**O-10**	**Photoreceptor phosphorylation modifies plant development** András Viczián, Valentina Madár, Éva Ádám, Ferenc Nagy

18:30		***Welcome dinner***
20:00		Poster discussion with drinks – ODD number posters

Day 2 – Saturday, 25 March 2023

Molecular mechanism of diseases II. / Congress Hall
Chair: Gábor Szabó

09:00 **O-11** **Extensive, but spatially restricted spongiform vacuolization in the CNS is accompanied by alterations in neurophysiological parameters and behaviour of the Gde1-/- mouse**
Zsófia I. László, Christina Miskolczi, Benjámin Barti, László Bíró, Dániel Nagy, Zoltán K. Varga, Bíborka Bruzsik, Huba Szebik, Máté Tóth, Csaba Cserép, Fruzsina Mógor, Mária Baranyi, Flóra Gölöncsér, Kata Nagy, Imre Kacskovics, Gabriel Simon, Ben Cravatt, Beáta Sperlágh, Ádám Dénes, Éva Mikics, Zsolt Lele, István Katona

09:20 **O-12** **A combination of strongly associated prothrombotic SNPs could efficiently predict the venous thrombosis risk**
Shewaye Fituma Natae, János Sándor, Mohammed Abdulridha Merzah, Róza Ádány, Zsuzsanna Bereczky, Szilvia Fiatal

09:35 **O-13** **Association of HDL subfraction profile with the development of insulin resistance**
Péter Pikó, Zsigmond Kósa, János Sándor, Ildikó Seres, György Paragh, Róza Ádany

09:50 **O-14** **Developing a mouse model to investigate diabetes-related vascular calcification and the role of ABCC6**
Viola Pomozi, Krisztina Fülöp, Eszter Kozák, Natália Tőkési, András Váradi

10:05 **O-15** **Fibroblast heterogeneity critically affects tumorigenesis in colorectal cancer**
András Áron Soós, Andrea Kelemen, Zsuzsanna Szvicsek, Adrián Orosz, Zoltán Wiener

10:20 *Coffee break*

Day 2 – Saturday, 25 March 2023

Cell differentiation and signaling I. / Room Liget I.
Chair: Beáta Lontay

09:00	**O-16**	**What does protein phosphatase 5 do with mitotic kinases?** Edit Ábrahám, Zsuzsánna Réthi-Nagy, Péter Vilmos, Rita Sinka, Zoltán Lipinszki
09:20	**O-17**	**Study of intracellular pattern recognition Nod-like receptors in skeletal muscle cells** Eduárd Bíró, Mikako Onozaka, Hala Ahmad, Szilvia Benkő
09:35	**O-18**	**IRS1 as a novel player in EGF mediated signaling in pancreatic cancer cells** Tamás Takács, Loretta László, Anita Kurilla, Álmos Tilajka, Julianna Novák, László Buday, Virág Vas
09:50	**O-19**	**Breast cancer control by modulating serotonin-dependent signalling** Iván P. Uray, Máté Lengyel
10:05	**O-20**	**CXCR4-CXCL12 signaling regulates development of extrinsic innervation to the colorectum** Viktória Halasy, Emőke Szőcs, Ádám Soós, Tamás Kovács, Nóra Fejszák, Ryo Hotta, Allan M. Goldstein, Nándor Nagy
10:20		*Coffee break*

Day 2 – Saturday, 25 March 2023

Bioinformatics / Congress Hall
Chair: Sándor Pongor

11:05	**O-21**	**Predicting drug effects through whole cell simulations** Bence Keömley-Horváth, Szabolcs Cselgő Kovács, Áron Weber, Kinga Sükösd, István Reguly, Erzsébet Fichó, Attila Csikász-Nagy
11:25	**O-22**	**Promoter identification with bidirectional transformers trained on metagenome data** Babett Bodnár, Balázs Ligeti
11:40	**O-23**	**Role of extrachromosomal DNA in small cell lung cancer heterogeneity and plasticity** Lőrinc S. Pongor, Christopher W. Schultz, Anish Thomas
11:55	**O-24**	**The macro- and microevolution of the yeast *S. cerevisiae* in the host with experimental evolution, genomics and metagenomics** Walter P. Pfliegler, Hanna Viktória Rácz, Alexandra Imre
12:10	**O-25**	**The role of correlated motions of conserved motifs and the binding modes of agonists in the activation mechanism of G protein-coupled receptors** Argha Mitra, Arijit Sarkar, Szabolcs Dvorácskó, Mária Harmati, Zsuzsánna Réthi-Nagy, Krisztina Buzás, Zoltán Lipinszki, Attila Borics
12:25	**O-26**	**Dogs or rodents? An animal model for human cognitive aging** Dávid Jónás, Enikő Kubinyi

12:40 *Lunch*

Day 2 – Saturday, 25 March 2023

Cell differentiation and signaling / Room Liget I.
Chair: Rita Sinka

11:05	**O-27**	**A distinct transcriptome characterizes neural crest-derived cells at the migratory wavefront during enteric nervous system development** Nándor Nagy, Rhian Stavely, Adam Sóos, Emőke Szőcs, Allan M. Goldstein
11:25	**O-28**	**The role of thin filament associated proteins in sarcomere growth** Péter Görög, Szilárd Szikora, Tóth Krisztina, Dávid Farkas, Tamás Gajdos, Tamás Polgár, Miklós Erdélyi, József Mihály
11:40	**O-29**	**Identification of a novel network regulating lamellocyte fate in the lymph gland of *Drosophila melanogaster*** Bayan Kharrat, Nikolett Virág, Erika Gábor, Rita Sinka, Ferenc Jankovics, Viktor Honti
11:55	**O-30**	**The dark side of regeneration: mutagenic consequences of whole-body regrowth in planarians** Ádám Póti, Dávid Szüts, Jelena Vermezovic
12:10	**O-31**	**Convergent evolution in glutamate dehydrogenase activity in *Drosophila* and human** Viktor Vedelek, Balázs Vedelek, Gábor Juhász, Péter Lőrincz, Rita Sinka
12:25	**O-32**	**Age dependent hormetic response to HSF-1 depletion suggests a compensatory mechanism of unfolded protein response in *Caenorhabditis elegans*** Dániel Kovács, János Barnabás Biró, Tímea Sigmond, Bernadette Hotzi, Saqib Ahmed, Umar Mohammad, Márton Kovács, Tibor Vellai, János Barna
12:40		*Lunch*

Day 2 – Saturday, 25 March 2023

Plenary session / Congress Hall
Chair: László Buday

14:10	**PL-3**	**Multiomics examination of samples collected from patients with obesity and/or type 2 diabetes** Petra Magdolna Bertalan, Uladzislau Vadadokhau, Erdenetsetseg Nokhoijav, Balázs Kunkli, Gergő Kalló, Miklós Káplár, József Tőzsér, Miklós Emri, Éva Csősz
14:50	**PL-4**	**Transient upregulation of P-glycoprotein in drug-tolerant persister cells can be targeted to prolong survival in a mouse model of triple-negative breast cancer** Kornélia Szebényi, András Füredi, Eszter Bajtai, Ágnes Csiszár, Gergely Szakács
15:30		*Technical break*

Protein structure & proteomics II. / Congress Hall
Chair: Éva Csősz

15:40	**O-33**	**Global analysis of the plasma membrane-associated subproteome during chondrogenesis** Patrik Kovács, Tibor Hajdú, Judit Vágó, Roland Takács, Róza Zákány, Péter Brázda, David J. Boocock, Csaba Matta
16:00	**O-34**	**Statistical analysis of the proteome of extracellular vesicles isolated by size exclusion chromatography for the assessment of the immunological background of post-covid syndrome** Gábor Kecskeméti, Gabriella Dobra, Mátyás Bukva, Krisztina Buzás, Zoltán Szabó
16:15	**O-35**	**Thermal analysis of structural and functional dynamics of FH2 domain of DAAM** Rauan Sakenov, Mónika Ágnes Tóth, Veronika Takács-Kollár, Andrea Teréz Vig, Beáta Bugyi
16:30	**O-36**	**DisCanVis: Visualizing integrated structural and functional annotations to better understand the effect of cancer mutations located within disordered proteins** Norbert Deutsch, Mátyás Pajkos, Gábor Erdős, Zsuzsanna Dosztányi
16:45		*Poster discussion with coffee break – EVEN number posters*
20:00-	23:00	***Banquet – Congress Hall***

Day 2 – Saturday, 25 March 2023

Cell differentiation and signaling II. / Room Liget I.

Chair: Gábor Juhász

15:40	**O-37**	**A unifying mechanism of lysosomally regulated autophagic degradation by TRPML/MLCOLN1** Arindam Bhattacharjee, Hussein Abuammar, Zsolt Lakatos, Gábor Juhász
16:00	**O-38**	**Myosin phosphatase promotes insulin-sensitizing mechanisms in C2C12 muscle cells** Ádám Ungvári, Ilka Keller, Richárd Kinter, Sára Széles, Beáta Lontay
16:15	**O-39**	**A non-catalytic herpesviral protein reconfigures ERK-RSK signaling by targeting kinase docking systems** Anita Alexa, Péter Sok, Krisztián Albert, Ádám L. Póti, Laura Dénes, Attila Reményi
16:30	**O-40**	**Finding novel autophagy activation targets in *Drosophila* neurodegeneration and ageing models** Fanni Keresztes, Janka Szinyákovics, Gergő Falcsik, Tünde M. Balog, Tímea Burján, Tibor Vellai, Tibor Kovács

16:45		*Poster discussion with coffee break – EVEN number posters*
20:00-	23:00	***Banquet – Congress Hall***

Day 3 – Sunday, 26 March 2023

DNA repair and drug development / Congress Hall
Chair: Dávid Szüts

09:30 **O-41** **Oxygen dependent mutagenesis in mismatch repair deficient cells**
Eszter Németh, Rita Lózsa, Dávid Szüts

09:50 **O-42** **Chemotherapy 2.0: Liposomal formulation of a highly toxic anthracycline derivative is effective against an array of different cancer types including drug resistant tumors**
András Füredi, Szilárd Tóth, Kristóf Hegedüs, Krisztina Kiss, Zoltán Varga, Gábor Mező, Gergely Szakács

10:05 **O-43** **Concordant or not? Performance and concordance rates analysis of ten prediction algorithms on clinically relevant variants from the BRCA1 and BRCA2 genes**
Erda Qorri, Takács Bertalan, Enyedi Márton Zsolt, Lajos Pintér, Lajos Haracska

10:20 **O-44** **The complex role of mesenchymal stem cells in the tumor microenvironment**
Flóra Vajda, Áron Szepesi, Zsuzsa Erdei, Kornélia Szebényi, Katalin Német, Gergely Szakács, András Füredi

10:35 **O-45** **Nuclear regulation of myosin phosphatase by Mg2+-dependent protein phosphatase 1B in tumor suppressor pathway**
Ilka Keller, Ádám Ungvári, Beáta Lontay

10:50 *Coffee break*

Day 3 – Sunday, 26 March 2023

Genome manipulation & archeogenetics / Room Liget I.
Chair: Zoltán Ivics

09:30 **O-46** **Advances in *Sleeping Beauty* transposon-based therapeutic cell engineering**
Zoltán Ivics, Csaba Miskey, Matthias Ochmann, Lacramioara Botezatu, Tobias Bexte, Orsolya Barabás, Evelyn Ullrich, Michael Hudecek

09:50 **O-47** **SuperFi-Cas9 exhibits remarkable fidelity but severely reduced activity yet works effectively with ABE8e base editor**
Péter István Kulcsár, András Tálas, Zoltán Ligeti, Sarah Laura Krausz, Ervin Welker

10:05 **O-48** **Archaeogenetic analysis of the human remains from the family cemetery of the genus Aba**
Gergely István Varga, Kitti Maár, Zoltán Maróti, Emil Nyerki, Balázs Tihanyi, Orsolya Váradi, Alexandra Ginguta, Bence Kovács, Petra Kiss, Monika Dosztig, Zsolt Gallina, Miklós Makoldi, Oszkár Schütz, Tibor Török, Endre Neparáczki

10:20

10:35 **O-50** **Preliminary genetic results about Sarmatians from the Carpathian basin**
Oszkár Schütz, Zoltán Maróti, Emil Nyerki, Endre Neparáczki, Balázs Tihanyi, Bence Kovács, Kitti Maár, Gergely Varga, Alexandra Gînguță, Tibor Török

10:50 *Coffee break*

Day 3 – Sunday, 26 March 2023

Epigenetics & regulation of gene expression / Congress Hall
Chair: Tamás Arányi

11:30	**O-51**	**Generation and characterization of hepatocyte-specific de novo DNA methyltransferase (DNMT) 3A and DNMT3B double knockout mice** Dániel Márton Tóth, Muazu Muhyiddeen, Virgil Tamatey, Dóra Kővári, Andrea Kádár, Mária Ashaber, Csaba Fekete, Flóra Szeri, Tamás Arányi
11:50	**O-52**	**Tail-oring epigenetic regulation via the histone variant H2A.Z** László Imre, Péter Nánási Jr., Ibtissem Benhamza, Kata Nóra Enyedi, Gábor Mező, Éva Hegedüs, György Vámosi, Gábor Szabó
12:05	**O-53**	**Moesin functions in the nucleus as a new member of the Mediator complex** Ildikó Kristó, Zoltán Kovács, Péter Borkúti, Anikó Szabó, Zoltán Lipinszki, Aladár Pettkó-Szandtner, Péter Vilmos
12:20	**O-54**	**Human abdominal subcutaneous-derived active beige adipocytes carrying *FTO* rs1421085 obesity-risk alleles exert lower response to thermogenic activation** Endre Kristóf, Attila Vámos, Rini Arianti, Boglárka Ágnes Vinnai, Rahaf Al Rifai, László Fésüs
12:35	**O-55**	**β common receptor-family cytokines as inducers of NLRP2 expression** Hala Ahmad, Gergő Kovács, Eduárd Bíró, Szilvia Benkő

13:00	***Closing ceremony*** ***Congress Hall***
13:15	*Lunch*

Day 3 – Sunday, 26 March 2023

Regulatory RNA / Room Liget I.
Chair: Tamás Orbán

11:30	**O-56**	**Comparative analysis of epitranscriptomic profiles in maternal and somatic ribosomes of zebrafish** Máté Varga, Christian Fagre, Rebeca Medina, Ana Milovanovic, Renáta Hamar, Diána Kaszás, Austin Draycott, Eva Maria Novoa, Wendy Gilbert
11:50	**O-57**	**Novel ori-proximal herpesvirus transcripts with putative regulatory roles in DNA replication and transcription identified by short and long-read RNA-sequencing** Balázs Kakuk, Gábor Torma, Dóra Tombácz, Islam A.A. Almsarrhad, Gergely Ármin Nagy, Ádám Fülöp, Ákos Dörmő, Zsolt Csabai, Zsolt Boldogkői
12:05	**O-58**	**Transcriptional regulation during heat stress in plants** István Szádeczky-Kardoss, Henrik Mihály Szaker, Radhika Verma, Dániel Silhavy, Tibor Csorba
12:20	**O-59**	**The miRNA content of bone marrow-derived extracellular vesicles contribute to protein pathway alterations involved in ionising radiation-induced bystander responses** Ilona Barbara Csordás, Eric Andreas Rutten, Tünde Szatmári, Prabal Subedi, Lourdes Cruz-Garcia, Dávid Kis, Christine von Toerne, Martina Forgács, Géza Sáfrány, Soile Tapio, Christophe Badie, Katalin Lumniczky
12:35	**O-60**	**Structural dissection of the RNA binding mechanism of a disordered loop in Ezh2** Beáta Szabó, András Micsonai, Csenge Lilla Szabó, Fanni Sebák, Andrea Bodor, József Kardos, Ágnes Tantos

13:00	***Closing ceremony*** ***Congress Hall***
13:15	*Lunch*

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P-002	Marianna Holczer The study of autophagy-dependent survival in endoplasmic reticulum stress
P-003	Fanni Keresztes Autophagy-related small GTPase proteins' effect on *Drosophila* lifespan and Parkinson's disease model
P-004	Zoltán Köhler Effect of tilorone on glucose homeostasis in a high-fat diet mice model
P-005	Dorina Lenzinger MVB-like extracellular vesicles
P-006	Győző Szenci The role of Ankyrin-repeat palmitoyl-transferases in lysosomal degradation
P-007	Szabolcs Takáts Uncovering degradation independent functions of autophagy in cancer
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P-009	Ákos Dörmő Comparison of technical approaches applied in gut microbiome analyses reveals significant inconsistencies
P-010	Tibor Hajdú Proteomic and network biology analysis of the plasma membrane proteome in human cutaneous melanocytes and melanoma cells
P-011	Márk Kovács-Valasek Identification of novel cryptic primycin biosynthetic gene clusters within the pseudonocardiaceae family
P-012	Balázs Liget, Zsófia Molnár Transfer learning for microbiome based predictive disease classification
P-013	Kolos Nemes Predicting drug response in small cell lung cancer cell lines using gene expression signatures
P-014	Erda Qorri Decoding canine senescence: A single-cell RNA-sequencing and bioinformatics approach

P-015	Éva Schád Comparison of the RNA interactome of KMT2D and KMT2F
P-016	Bertalan Takács The devil in the details: Eliminating false metagenomic classification with a novel algorithm
P-017	Veronika Törökné Ács High compositional diversity in short linear motif flanking regions gives potential to fine-tune the motif's binding properties
P-018	Maysaa Ali C2C12 myoblasts express phagocytosis machinery genes and engulf apoptotic cells similar to macrophages
P-019	Rahaf Alrifai Ferroprtin downregulation plays a role in thermogenesis of human neck derived adipocytes
P-020	Bálint Bécsi Stimulation of adipogenic differentiation of mesenchymal stem cells by protein phosphatase activator selenoglycoside derivatives
P-021	Noémi Bilakovics Intracrine signaling of the EGF receptor
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P-023	Laura Dénes A luciferase fragment complementation-based RSK2 activity assay
P-024	Rana Ebeid Modulating the culturing environment to enhance cartilage formation
P-025	Barbara Erdélyi-Furka The effects of preimplantation factor on irradiation-induced cardiac cell injury: a focus on modulation of apoptosis
P-026	Martina Forgács Bone marrow-derived extracellular vesicles from irradiated mice influence the cellular composition of the bone marrow stroma
P-027	Erika Gábor Characterisation of new and old factors in the regulation of blood cell transdifferentiation in *Drosophila melanogaster*
P-028	Attila Tibor Gerencsér Optimization of tumor cell killing by chimeric antigen receptor expressing macrophages

P-029 Eliza Guti
Pharmacogenomic investigation of indoleamine-2,3-dioxygenase 1 (IDO1) in different tumor cell lines

P-030 Mevan Jacksi
Absence of scaffold protein Tks4 disrupts several signaling pathways, inducing an EMT-like process and increasing invasion and migration of colorectal cancer cells

P-031 Máté Varga
Genomic uracil and dUTP dynamics during early zebrafish development

P-032 Patrik Kovács
Losartan: A promising candidate in chondro-regenerative medicine?

P-033 Julianna Lilienberg
Complex modulatory effect of microglia on neurite generation and differentiation of human neural progenitor cells

P-034 Péter Németh
Pharmacological inhibition of CD38 enhances the antibody-dependent tumor-killing effect of natural killer (NK) cells on breast carcinoma cells

P-035 Isotta Sturniolo
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P-036 Kitti Szabó
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Investigation of the antifibrotic effect of the BMP inducer tiloron in airway fibroblasts

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Extracellular thiamine concentration influences thermogenic competency of differentiating human adipocytes

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Disruption of phosphorylation sites leads to ectopic expression of BigH1 in *Drosophila* embryos

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Microtubule organizing centers contain testis-specific γ-TuRC proteins in spermatids of *Drosophila melanogaster*

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Myotrophin-CP antagonism governs muscle hypertrophy by regulating the number of myofilaments

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Flightless-I regulates sarcomere growth in interaction with LRRFIP2

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A new cell-autonomous role for the HECA orthologue, Headcase, in blood cell progenitor maintenance in the *Drosophila* lymph gland

P-044 Alexandra Gráf
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Studying the role of an unknown protein in premature ageing in *Caenorhabditis elegans* model organism

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Differential condensation features of bacterial and eukaryotic nucleoprotein coacervates reflect adaptations to genome metabolic contexts

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Modeling the mutagenic effect of smoking in cell lines

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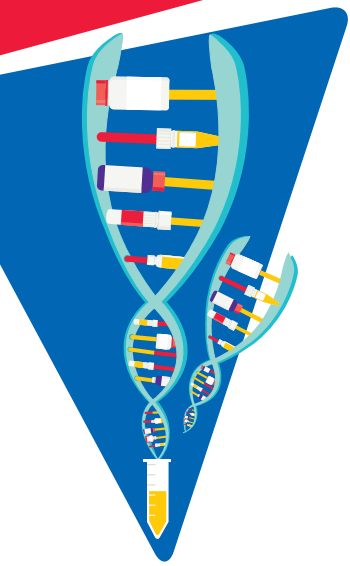

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	KK4601	KAPA SYBR® FAST Universal (5 mL), 500 reactions
RT-PCR	3531287001	Transcriptor Reverse Transcriptase, 200 reactions
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	KK4715	KAPA Probe Fast Universal (5000 x 20 µL), 5000 reactions
	5893151001	Transcriptor Universal cDNA Master, 100 reactions
	5091284001	Transcriptor High Fidelity cDNA Synthesis Kit, 100 reactions
Genotyping	KK7352	KAPA HotStart Mouse Genotyping Kit, 500 reactions
	KK5121	KAPA2G Fast Genotyping Mix (25 µL), 500 reactions
	KK5620	KAPA2G Fast HotStart Genotyping Mix (1.25 mL), 100 reactions
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Standard PCR	11647687001	Taq DNA Polymerase (1 U/µL, 4 x 250 U), 2000 reactions
	11636103001	PCR Master (2.5 U, 10 vials)
	11814362001	PCR Nucleotide Mix (10 x 200 µL), 5000 reactions
	D4309-1KU	REDTaq® DNA-Polymerase (1 U/µL), 1000 reactions
	D1806-1.5KU	Taq DNA-Polymerase aus Thermus aquaticus (5 U/µL), 1500 reactions
Hot Start PCR	12032929001	FastStart™ Taq DNA Polymerase (5 U/µL, 2 x 250 U), 250 reactions
	4738381001	FastStart™ Taq DNA Polymerase dNTPack (4 x 250 U), 500 reactions
	4710444001	FastStart™ PCR Master (8 x 1.25 mL), 400 reactions
	P1107-100RXN	JumpStart™ REDTaq® ReadyMix™ Reaction Mix, 100 reactions
	KK5802	KAPA2G Fast Multiplex Mix (500 x 25 µL)
Long and Accurate PCR	11681842001	Expand™ Long Template PCR System (2 x 360 U), 190 reactions
	11732650001	Expand™ High Fidelity PCR System (2 x 250 U), 200 reactions
	4738292001	FastStart™ High Fidelity PCR System dNTPack (2 x 250 U), 200 reactions
	71086-3	KOD Hot Start DNA Polymerase, 200 U
	KK5609	KAPA2G Fast HotStart ReadyMix™ with Dye (6.25 mL), 500 reactions
Challenging PCR	3553400001	FastStart™ High Fidelity PCR System (500 U), 200 reactions
	3553361001	FastStart™ High Fidelity PCR System (2500 U), 1000 reactions
	71975-3	KOD Xtreme™ Hot Start DNA Polymerase (200 U)
	KK5702	KAPA2G Robust HotStart ReadyMix™ (6.25 mL), 500 reactions
	12140306001	GC-RICH PCR System (100 U), 50 reactions

Elérhetőségünk:
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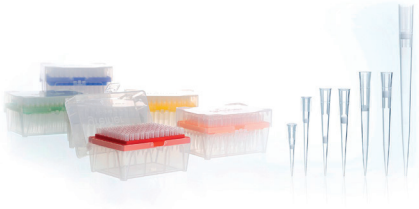
Október huszonharmadika utca 6-10.
1117 Budapest
rendeles@merckgroup.com
+36 1 463 8100

PIPETTE LIKE A PRO

SAPPHIRE pipettahegyek



Maximális precizitás és folyadék visszanyerés a Greiner Bio-One termékeivel.

- Dobozos, ömlesztett és utántöltős kiszerelésekben.
- Filteres és filter nélküli kivitelek.
- „Low retention"-kis visszatartású pipettahegyek.
- Univerzális illeszkedés: a pipettahegyek kompatibilisek minden általánosan használt egy- és többcsatornás pipettával.
- Hosszított pipettahegy forma: csökkenti a kontamináció kockázatát pipettázás során.
- Tökéletesített pipettahegy kialakítás: a sima felszínek csökkentik a folyadék visszatartást, ezáltal minimalizálják a költséges reagensek és minták veszteségeit.
- Kitűnő átlátszóságú orvosi minőségű polipropilénből készül a minták tökéletes láthatósága érdekében.
- Egyszerűen olvasható beosztás a minta térfogat gyors ellenőrzésére.
- Vékonyított fal kialakítás: tökéletes illeszkedés és pontosság változatlan teljesítmény mellett, csökkentett műanyag felhasználással.
- Rugalmas pipettahegy és gallér kialakítás: minimalizált felszívási és kienegedési erő és optimális illeszkedés.
- **We take your rack back:** visszavesszük és újrahasznosítjuk használt pipettahegyes dobozait.

- / DNáz, Rnáz, humán DNS és PCR inhibítor mentes
- / Nem pirogén és nem citotoxikus
- / Kioldódó anyagokra tesztelt
- / Sterilitási biztonsági szint SAL 10-6
- / EU-ban gyártott és a nemzetközi szabványoknak megfelelően tesztelt
- / Teljesen automtizált csomagolás a részecske-szennyezések megelőzése érdekében
- / Teljes nyomonkövethetőség

További információért és ingyenes mintákért keresse kollégáinkat a Greiner standon vagy az alábbi elérhetőségeken:

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QIAGEN

QIAcuity

nanoplate-alapú digitális PCR készülék

Csatlakozzon a legújabb technológiát alkalmazó tudományos élvonalhoz.

Ne hagyja ki ezt a nagyszerű lehetőséget, mellyel most eredményeit egy új, DIGITÁLIS szintre emelheti.

BioMarker Kft.

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Hungarian Molecular Life Sciences 2023

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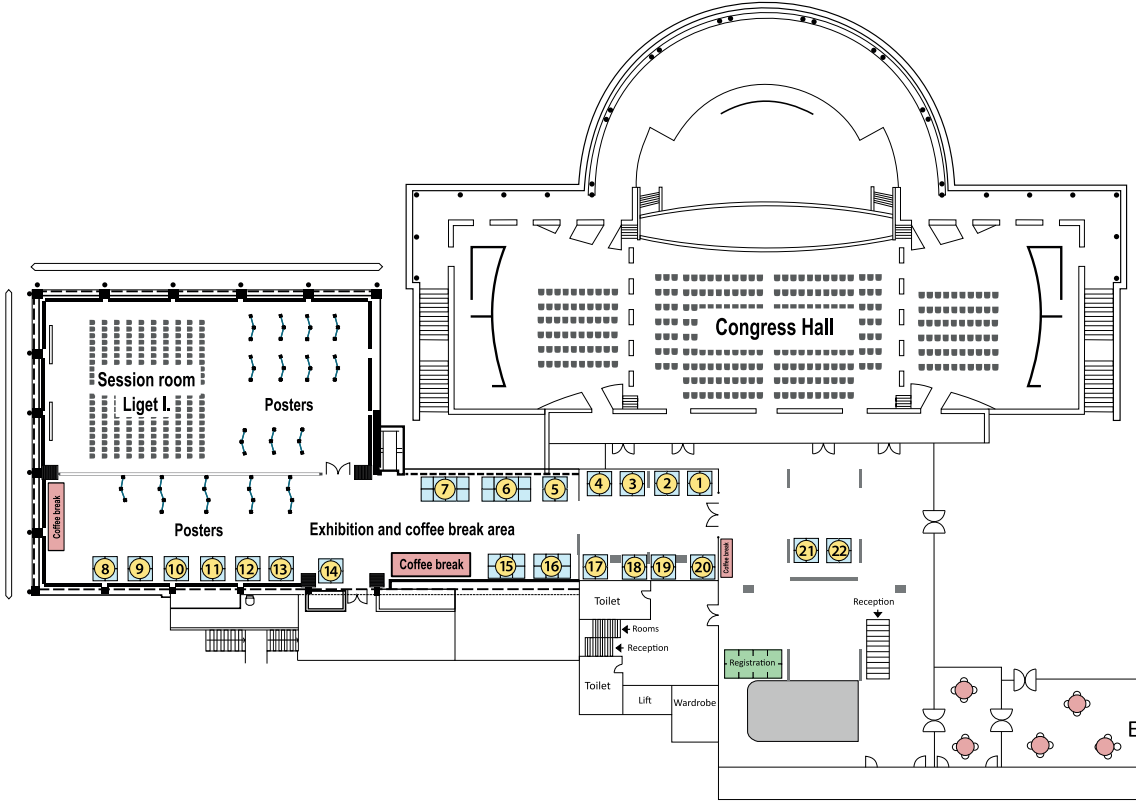
Map and exhibition floor plan



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