3rd Central European Biomedical Congress

News on biomarker discovery and research innovations in medicine and biomedical sciences

15-18 September 2018, Krakow, Poland

PROGRAMME
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Dear Friends,

It is for us a great pleasure to welcome you to Krakow on the occasion of the 3rd Central European Biomedical Congress (CEBC) which motto is *News on biomarker discovery and research innovations in medicine and biomedical sciences*.

This congress is organized by the Institute of Pharmacology Polish Academy of Sciences in Krakow, the Faculty of Medicine Jagiellonian University Medical College, and associated by the Polish Pharmacological Society and the Polish Toxicological Society.

Through a series of plenary lectures, oral sessions, poster sessions and workshops, industry-sponsored symposia and exhibitions, 3rd CEBC provides new information on existing treatments and those under development. The Congress also promotes outstanding opportunities for junior scientists to present research and interact with leaders in the field, including laureates of European Research Council grants.

Adopting a highly multidisciplinary approach, the Congress aims to draw an attendance of clinicians, physicians, pharmacologists, biologists, biotechnologists, chemists and toxicologists, sharing the common goal to promote international scientific cooperation and to exchange of ideas and concepts.

Social programs may help create the network between international experts and students.

Our host city Krakow, is the old capital of Poland placed on UNESCO’s list of World Cultural Heritage. The Wawel Royal Castle, the St. Mary's Basilica and the largest European medieval market square, Collegium Maius – the oldest part of the Jagiellonian University and the Jewish District Kazimierz are among the attractions of the area. Krakow is a city of culture and academic heart of Poland.

Enjoy the stay in Krakow!

On behalf of the Organizing Committee

Małgorzata Filip  
Joanna Pera
HONORARY PATRONAGE

Jarosław Gowin
Deputy Prime Minister, Ministry of Science and Higher Education, Republic of Poland

Jadwiga Emilewicz
Ministry of Entrepreneurship and Technology, Republic of Poland

Józef Gawron
Vice-Voivode of Malopolska

Jacek Majchrowski, Professor, Ph.D.
Mayor of the City of Krakow

Stanisław Jerzy Czuczwar, Professor, Ph.D.
Vice-President of the Polish Academy of Sciences

Wojciech Nowak, Professor, Ph.D., M.D.
Rector of the Jagiellonian University in Krakow

Zbigniew Błocki, Professor, Ph.D.
Director of the National Science Centre

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Vice-Rector of the Jagiellonian University Medical College in Krakow

Władysław Lasoń, Professor, Ph.D.
Director of the Institute of Pharmacology, Polish Academy of Sciences in Krakow

Maciej Małecki, Professor, Ph.D., M.D.
Dean of the Faculty of Medicine, Jagiellonian University Medical College in Krakow
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Magdalena Bujalska-Zadrożyń (Poland)
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Małgorzata Filip (Poland)
Krystyna Gołębiowska (Poland)
Małgorzata Kajta (Poland)
Katarzyna Kuter (Poland)
Irena Nalepa (Poland)
Joanna Pera (Poland)
Andrzej Pilc (Poland)
Harini Sampath (USA)
Julia Stingl (Germany)
Dariusz Zuba (Poland)
Cordian Beyer (Germany)
Agnieszka Dobrzyń (Poland)
Liana Fattore (Italy)
Ireneusz Grudziński (Poland)
Tomasz Kocki (Poland)
Marzena Maćkowiak (Poland)
Rafał Olszanecki (Poland)
Jan Rodriguez Parkitna (Poland)
Edmund Przegaliński (Poland)
Umberto Spampinato (France)
Jolanta Sykut-Cegielska (Poland)

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Joanna Pera (Jagiellonian University Medical College, Krakow, Poland)

Members:
Małgorzata Frankowska (Institute of Pharmacology PAS, Krakow, Poland)
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Karolina Wydra (Institute of Pharmacology PAS, Krakow, Poland)
Agata Suder (Institute of Pharmacology PAS, Krakow, Poland)
Kamila Piotrowska (Institute of Pharmacology PAS, Krakow, Poland)
Ewa Bochenek (Jordan Group, Poland)
Łukasz Bieńkowski (Jagiellonian University, Krakow, Poland)
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INAUGURATION AND WELCOME RECEPTION

15 September, 2018 – Galaxy Hotel
22A Gęśia Street, Krakow

CONGRESS VENUE

16–18 September, 2018 – Auditorium Maximum of the Jagiellonian University
33 Krupnicza Street, Krakow

CONGRESS DINNER

17 September, 2018 – Polish Aviation Museum
39 John Paul II Avenue, Krakow
http://www.muzeumlotnictwa.pl

REGISTRATION

15 September, 2018
5:00 p.m. – Galaxy Hotel, 22 A Gęśia Street, Krakow

16–18 September, 2018
8:00 a.m. – 5:00 p.m. – The Reception Desk is located at the entrance lobby of the Auditorium Maximum of the Jagiellonian University
33 Krupnicza Street, Krakow
**PROGRAM**

**SATURDAY, 15 SEPTEMBER 2018**

Venue: Galaxy Hotel

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<tr>
<td>5.00 p.m.</td>
<td>Registration</td>
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<td>6.00 – 6.30 p.m</td>
<td>Welcome message</td>
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<td><em>Chairs: Honorary Committee &amp; Organizing Committee</em></td>
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<td>6.30 – 7.15 p.m</td>
<td>Inaugural lecture (PL.1, Plenary lecture 1)</td>
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<td><em>Chair: Władysław Lasoń (Poland)</em></td>
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<td>Cannabis intoxication, withdrawal and relapse: Human laboratory studies.</td>
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<td>7.30 – 8.00 p.m.</td>
<td>Music performance</td>
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<td>8.00 – 11.00 p.m.</td>
<td>Welcome party</td>
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**SUNDAY, 16 SEPTEMBER 2018**

Venue: Auditorium Maximum

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<td>8.45 – 10.45 a.m.</td>
<td>Session 1: Medium Hall A</td>
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<td>Toxic factors in the brain: a constant challenge to neurobiology.</td>
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<td><em>Chairs: Małgorzata Kajta (Poland) &amp; Cordian Beyer (Germany)</em></td>
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<td><strong>S.01-1</strong> Cordian Beyer (University Clinic RWTH Aachen, Germany)</td>
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<td>Estrogen and brain inflammation.</td>
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S.01–2  **Elżbieta Salińska** (Mossakowski Medical Research Centre PAS, Warsaw, Poland)
Hyperbaric and hypobaric treatment prevents radical oxygen species toxicity in brain asphyxia.

S.01–3  **Magdalena Zielińska** (Mossakowski Medical Research Centre PAS, Warsaw, Poland)
Astrocytic SN1 glutamine transporter in hyperammonemic encephalopathies.

S.01–4  **Małgorzata Kajta** (Institute of Pharmacology PAS, Krakow, Poland)
Steroid and xenobiotic receptor signaling in pathologies of the nervous system.

Session 2: Medium Hall B

**Rare diseases - every-day reality of neurology.**
Chairs: Joanna Pera (Poland) & Jolanta Sykut-Cegielska (Poland)

S.02–1  **Zbigniew A. Gaciong** (Medical University of Warsaw, Poland)
What can we offer patients with rare vascular diseases?

S.02–2  **Jolanta Sykut-Cegielska** (Department of Inborn Errors of Metabolism and Pediatrics, Institute of Mother and Child, Warsaw, Poland)
Inborn errors of metabolism as rare diseases.

S.02–3  **Tomasz Dziedzic** (Jagiellonian University Medical College, Krakow, Poland)
Autoimmune encephalopathies: rare, but treatable neurological disorders.

S.02–4  **Joanna Pera** (Jagiellonian University Medical College, Krakow, Poland)
Adrenoleukodystrophy - beyond fatty acids.

10.45 – 11.15 a.m.  Coffee break (Exhibition Room)

11.15 – 11.30 a.m.  (SP.1) Sponsor presentation (Medium Hall)
**Michał Gałęzowski** (Selvita S.A.)
Selvita R&D portfolio overview.

11.30 a.m. – 12.15 p.m.  (PL.2) Plenary lecture 2 (Medium Hall)
Chair: Rafał Olszanecki (Poland)
Morpho-functional imaging: connecting a single neuron to whole brain.
**Francesco Pavone** (University of Florence, Italy)
12.15 – 2 p.m. Lunch break (Exhibition Room)

Poster session I (Exhibition Room)

2.00 – 4.00 p.m. Session 3: Medium Hall A

**New basic research on „legal highs“.**

*Chairs: Krystyna Gołembiowska (Poland) & Liana Fattore (Italy)*

S.03–1 **Dariusz Zuba** (Institute of Forensic Research, Krakow, Poland)
Recent developments in the new psychoactive substances market.

S.03–2 **Linda Simmler** (University of Geneva, Switzerland)
Pharmacology of cathinones and related psychostimulants.

S.03–3 **Liana Fattore** (CNR Neuroscience Institute-Cagliari, National Research Council, Italy)
Studies on the ketamine-like compound metoxetamine (MXE), a dissociative new drug.

S.03–4 **Krystyna Gołembiowska** (Institute of Pharmacology PAS, Krakow, Poland)
Neurochemical effects of hallucinogens: similarities and differences.

Session 4: Medium Hall B

**Translating scientific advances into therapies for neurodegenerative diseases.**

*Chair: Katarzyna Kuter (Poland)*

S.04–1 **M. Angela Cenci** (Basal Ganglia Pathophysiology Unit, Lund University, Sweden)
Bridging the translational gap in Parkinson’s disease: challenges and opportunities.

S.04–2 **Katarzyna Kuter** (Institute of Pharmacology PAS, Krakow, Poland)
Astrocytes and brain compensation potential in Parkinson’s disease.

S.04–3 **Bianca Marchetti** (University of Catania Medical School, Catania, Italy)
Translating neurorestorative approaches targeting astrocytes as drivers of neurorepair for next generation therapies in Parkinson’s disease.

4.00 – 4.30 p.m. Coffee break (Exhibition Room)
4.30 – 6.30 p.m. Session 5: Medium Hall

A way to consolidate your research independence – presentations from successful ERC grant applicants.
Chairs: Jan Rodriguez Parkitna (Poland) & Umberto Spampinato (France)

S.05–1 János Szabadics (Institute of Experimental Medicine HAS, Budapest, Hungary)
Direct recordings from small axon terminals reveal specialized roles of axonal signaling mechanisms.

S.05–2 Ragnhildur Thóra Káradóttir (MRC Stem Cell Institute, University of Cambridge, UK)
Neuronal regulation of (re)myelination.

S.05–3 Simon Hippenmeyer (Institute of Science and Technology Austria, Klosterneuburg, Austria)
Principles of neural stem cell lineage progression in cerebral cortex development.

MONDAY, 17 SEPTEMBER 2018

Venue: Auditorium Maximum

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<td>8.45 – 10.45 a.m.</td>
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Obesity and diabetes: what needs to be identified and how to optimise treatment?
Chairs: Agnieszka Dobrzyń (Poland) & Harini Sampath (USA)

S.06–1 Harini Sampath (Rutgers Center for Lipid Research, Rutgers University, NJ, USA)
Oxidative DNA damage: a novel player in the etiology of obesity.
S.06–2 **Grzegorz Sumara** (Rudolf Virchow Center for Experimental Biomedicine, University of Würzburg, Germany)
Signaling cascades in metabolic diseases.

S.06–3 **Agnieszka Dobrzyń** (Nencki Institute of Experimental Biology PAS, Warsaw, Poland)
Lipid mediators in regulation of pancreatic islet function.

S.06–4 **Jan Kopecký** (Institute of Physiology CAS, Prague, Czech Republic)
Healthy adipocyte.

Session 7: Medium Hall B

**Pharmacogenetics and personalized medicine.**
*Chairs: W. Anna Daniel (Poland) & Julia Stingl (Germany)*

S.07–1 **W. Anna Daniel** (Institute of Pharmacology PAS, Krakow, Poland)
Introduction to pharmacogenetics.

S.07–2 **Julia Stingl** (Centre for Translation Medicine, University Bonn, Germany)
Mindful pharmacogenetics: the role of cytochrome P450 enzymes in drug metabolism and mental health.

S.07–3 **Mateusz Kurzawski** (Pomeranian Medical University, Szczecin, Poland)
Genetic factors and personalized medicine in Parkinson’s disease.

S.07–4 **Ewa Grzybowska** (Centre of Oncology, MSC Memorial Institute, Gliwice, Poland)
Genetic variation of response to treatment and toxic effects of FAC chemotherapy of breast cancer.

S.07–5 **Ewa Wypasek** (John Paul II Hospital, Krakow, Andrzej Frycz Modrzewski Krakow University, Jagiellonian University School of Medicine, Krakow, Poland)
Genetic predictors of bleeding in patients treated with vitamin K antagonists: new insight.

10.45 – 11.15 a.m. Coffee break (Exhibition Room)

11.15 – 11.30 a.m. (SP.2) Sponsor presentation (Medium Hall)

**Monika Lamparska-Przybysz** (Polpharma Group)
Innovative Biologics and Biosimilars R&D and Manufacturing.
11.30 a.m. – 12.15 p.m. (PL.3) Plenary lecture 3 (Medium Hall)

Chair: Edmund Przegaliński (Poland)

**The dopamine transporter: a key player in psychostimulant addiction and dopaminergic pathologies.**

*Ulrik Gether (University of Copenhagen, Denmark)*

12.15 – 2.00 p.m. Lunch break (Exhibition Room)

Poster session II (Exhibition Room)

2.00 – 4.00 p.m. Session 8: Medium Hall A

**From nanotechnology to nanomedicine.**

Chair: Ireneusz Grudziński (Poland)

**S.08–1** Witold Łojkowski (Institute of High Pressure Physics PAS, Warsaw, Poland)

Hydroxyapatite nanoparticles: Past, present, and future in bone regeneration.

**S.08–2** Tomasz Ciach (Warsaw University of Technology, Warsaw, Poland)

Cancer nanotechnology: Beyond the horizon.

**S.08–3** Marcin Kruszewski (Institute of Nuclear Chemistry and Technology, Warsaw, Poland)

New look into theranostic nanoparticles in nuclear medicine.

**S.08–4** Anna Nowicka (University of Warsaw, Warsaw, Poland)

Nanosensors in POC diagnostics.

Session 9: Medium Hall B

**Advances in seizures and epilepsy research.**

Chairs: Tomasz Kocki (Poland) & Magdalena Bujalska-Zadrożny (Poland)

**S.09–1** Camila V. Esguerra (Chemical Neuroscience Group, University of Oslo, Norway)

A common pathogenetic mechanism shared between early acute exposure to valproate and Dravet syndrome.
**S.09–2**  *Rafał Kamiński* (UCB Biopharma, Translational Medicine Neuroscience, Braine-l'Alleud, Belgium)  
*Novel approaches to discovery of future antiepileptic drug targets.*

**S.09–3**  *Urszula Doboszewska* (Institute of Biology and Biochemistry, Maria Curie-Skłodowska University, Lublin, Poland)  
*The role of the GPR39 receptor in animal models of seizures and epilepsy.*

**S.09–4**  *Piotr Maciejak* (Institute of Psychiatry and Neurology, Warsaw; Medical University of Warsaw, Centre for Preclinical Research and Technology (CePT), Warsaw, Poland).  
*Neurobiochemical mechanisms of a ketogenic diet: simple rules in complex reality?*

**4.00 – 4.30 p.m.**  Coffee break (Exhibition Room)

**4.30 – 6.30 p.m.**  Workshops  
*Recent advances in the theory and applications of biomedical systems.*  
ThermoFisher Scientific (Seminar Room)  
Merck (Conference Room)

**8.00–11.00 p.m.**  Congress Dinner
TUESDAY, 18 SEPTEMBER 2018

Venue: Auditorium Maximum

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<td>Session 10: Medium Hall A</td>
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**Pharmacology in the 21st century: opportunities and challenges.**
Chair: Andrzej Pilc (Poland)

**S.10-1 Branden Stansley** (Vanderbilt University and Vanderbilt Medical Center, Nashville, USA)
Enhancing mGlu5 signaling for the treatment of cognitive impairment associated with schizophrenia: importance of signal bias and crosstalk with mGlu3.

**S.10-2 Andrzej Pilc** (Institute of Pharmacology PAS, Krakow, Poland)
Allosteric mGlu4 receptor modulators as antipsychotic-like drugs acrosstalk with 5-HT\textsubscript{1A} receptors.

**S.10-3 Marta Dziedzicka-Wasylewska** (Institute of Pharmacology PAS, Krakow, Poland)
Importance of hetero-dimerization of GPCRs in the nervous system: dopamine receptors as example.

Session 11: Medium Hall B

**Scientific idea and what next – from molecule to implementation.**
Chair: Magdalena Bujalska-Zadrożny (Poland) & Tomasz Kocki (Poland)

**S.11-1 Konrad Korbiński** (Synergia, Warsaw Medical University, Warsaw, Poland)
Productive and Safe Cooperation Between Scientists and Pharma Industry - safeguarding intellectual property and confidentiality.

**S.11-2 Marcin Szczeciński** (Adamed Holding, Poland)
Aspects to consider before launching and early on in a drug discovery program – pharmaceutical industry perspective.

**S.11-3 Magdalena Bujalska-Zadrożny** (Warsaw Medical University, Warsaw, Poland)
From basic research to medicinal product approval – a brief history of a novel formulation development.
S.11–4  **Louis Boon** (Bioceros BV, Utrecht, Netherlands)
Discovery of novel therapeutic antibodies using Bioceros CASH™ Platform.

S.11–5  **Marcin Feder** (Adamed Pharma S.A., Poland)
AD-O21.32 – from computational modelling to preclinical anticancer drug candidate.

S.11–6  **Andrzej Kuśmierz** (WAW.AC – Warsaw Technology Accelerator, Poland)
Breaking ice between industry and academia.

10.45 – 11.15 a.m.  Coffee break (Exhibition Room)

11.15 a.m. – 12.00 p.m.  (PL.4) Plenary lecture 4 (Medium Hall)
  *Chair: Irena Nalepa (Poland)*
  **Single-cell transcriptomic survey of neural identity and circuit connectivity.**
  **Csaba Földy** *(Brain Research Institute, University of Zurich, Switzerland)*

12.00 – 1.00 p.m.  Lunch break (Exhibition Room)

1.00 – 3.00 p.m.  Session 12: Medium Hall
  **Young Scientific Investigators’ Session (Ph.D. student).**
  *Chairs: Marzena Maćkowiak (Poland) & Edmund Przegaliński (Poland) & Grzegorz Sumara (Germany)*

S.12–1  **Katarzyna Rafa-Zabłocka** (Institute of Pharmacology, PAS, Krakow, Poland)
CaMKII phosphorylation regulates the BDNF expression evoked by fluoxetine in hippocampus of mice.

S.12–2  **Anna Radlicka** (Institute of Pharmacology, PAS, Krakow, Poland)
Levodopa-induced gene expression in the prefrontal cortex of rats with lesions of dopamine neurons.

S.12–3  **Paweł Grochecki** (Medical University, Lublin, Poland)
Repeated mephedrone and amphetamine exposure in adolescence rats affects spatial memory in adults.
S.12–4  Monika Rużycka (Medical University of Warsaw, Warsaw, Poland)  
MRI-guided total fat mass determination in obese rats.

S.12–5  Katarzyna Głombik (Institute of Pharmacology, PAS, Krakow, Poland)  
The effects of prenatal stress and high-fat diet on oxidative phosphorylation in the brain.

S.12–6  Jonathan Trujillo (University of Wuerzburg, Germany)  
Protein Kinase D2 promotes intestinal fat absorption and contributes to diet induced obesity.

S.12–7  Joanna Rzemieniec (Institute of Pharmacology, PAS, Krakow, Poland)  
Neuroprotective capacity of DIM against ischemia involves inhibition of AhR, but not ERα signaling pathways.

S.12–8  Sabina Lichołai (Jagiellonian University Medical College, Krakow, Poland)  
Role of circularRNAs in microRNA-induced endothelial dysfunction.

S.12–9  Justyna Gargas (Mossakowski Medical Research Centre PAS, Warsaw, Poland)  
Response of glial cells to temporal deprivation of oxygen and glucose in model perinatal asphyxia.

S.12–10  Alexander E. Mayer (University of Wuerzburg, Germany)  
Hepatic Pkd3 provides negative feedback on Chol. and TAG synthesis by suppressing insulin signaling.

3.30 – 4.00 p.m.  Closing & Award ceremony – Medium Hall  
Chairs: Małgorzata Filip & Joanna Pera (CEBC Organizing Committee)
POSTER SESSIONS

Poster session I
Sunday, 16 September 2018, 12:15 – 2:00 p.m. (Exhibition Room)
Posters with numbers P.1 will be presented.

Poster sessions II
Monday, 17 September 2018, 12:15 – 2:00 p.m. (Exhibition Room)
Posters with numbers P.2 to P.4 will be presented.

Kindly note: The electronic version of the congress abstract book is delivered on USB flash drive for each congress attendee.

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P.1-2 Repeated exposure to the predator scent stress has an impact on the excitability of brain serotonin neurons in rats.

P.1-3 PZKNN-94 – a novel and potent dually acting 5-HT6 R antagonist/5-HT1BR agonist with pro-cognitive, antidepressant and antiparkinsonian properties in animal models.

P.1-4 Genetically encoded fluorescent sensor capable of detecting intracellular hydrogen peroxide in human lung cancer cells.
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Antagonism of histamine H3 receptor reduced neuropathic pain in mice and enhanced morphine analgesia.

Antinociceptive effects of zaprinast and its influences on opioids analgesia in neuropathic rats.
Ciapała K, Rijewska E, Piotrowska A, Makuch W, Mika J

New 5-HT7 receptor agonist has analgesic effect and enhances morphine analgesia in neuropathic pain.

Pharmacological blockade of CXCR3 by (±)-NBI-74330 reduces neuropathic pain.
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**IMPORTANT INFORMATION**

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<th><strong>Congress Badge</strong></th>
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<tr>
<td>The Congress documents and badges have to be picked at the Congress Registration Desk upon arrival. A handling fee of 80 PLN will be charged for a lost name badge.</td>
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<tr>
<th><strong>Internet</strong></th>
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<tr>
<td>Wireless internet access is available in the entire Auditorium Maximum Jagiellonian University building.</td>
</tr>
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</table>

Network name: **maximum**  
Password: **#Cebc2018**

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<th><strong>Emergency</strong></th>
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<tr>
<td>Emergency phone numbers:</td>
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<tr>
<td>112 General Emergency number (mobile phone)</td>
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<tr>
<td>(12) Krakow city area</td>
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<tr>
<td>(12) 999 Ambulance (landline phone)</td>
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<tr>
<td>(12) 998 Fire Brigade (landline phone)</td>
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<td>(12) 997 Police (landline phone)</td>
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<tr>
<td>(12) 981 Road Assistance (landline phone)</td>
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<td>(12) 986 Municipal Police (landline phone)</td>
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<th><strong>Time zone</strong></th>
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<td>Poland is the country that uses Central European Time (GMT + 01:00).</td>
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<th><strong>Currency Exchange</strong></th>
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<tr>
<td>The Polish currency is zloty (PLN). There are 100 groszy to 1 zloty (PLN). Banknotes come in 10, 20, 50, 100 and 200 PLN denominations. Coins come in 1, 2, 5, 10, 20, 50 groszy and 1, 2, and 5 zlotys (PLN).</td>
</tr>
</tbody>
</table>
| 1 EUR = ca. PLN 4.35  
1 USD = ca. PLN 3.82  
1 GBP = ca. PLN 5.59 PLN |
| You can check the national bank rates at www.nbp.pl. In Poland, there is a great number of cash dispensers as well as numerous places to exchange money (e.g., banks open on weekdays usually until 3:00 p.m., or exchange offices – “kantors”). Most hotels and business centers accept payment in euro or USD, or in major credit cards (few of them may decline American Express). |
## Credit cards

Credit cards accepted in Poland: Visa, MasterCard, American Express. Cash withdrawal machines, restaurants, car rental agencies and most shops accept all major credit cards.

## Shops

Commonly open hours are 10:00 a.m. – 6:00 p.m. Monday to Saturday. On Saturday (September 16) shops are closed. Payment in shops: by cash (polish currency) or credit cards.

## Public transport

Krakow has a dense network of public transport with trams and buses. Tickets machines can be found in a number of buses and trams and at some stops. Tickets can also be bought at newspapers kiosks. A 20 min. ticket is 2,80 PLN (normal price). The tickets become valid when punched in an orange box to be found on a bus or a tram.

## Taxis

In Krakow taxis are usually ordered by phone and available 24 hours a day. The taxi companies usually accept credit cards and employ English-speaking drivers.

## Smoking Policy

The CEBC 2018 is a non-smoking congress. It is prohibited to smoke anywhere inside congress centre, Galaxy Hotel and Aviation Museum.