

Registration form for Polish research institution

1. Research institution data (name and address):

Jagiellonian University
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2. Type of research institution:

- 1) **basic organisational unit of higher education institution**

3. Head of the institution:

Prof. dr hab. Stanisław Kistryn, Vice-Rector for Research and Structural Funds

4. Contact information of designated person(s) for applicants and the NCN: first and last name, position, e-mail address, phone number, correspondence address):

Michał Wierzchoń, Director of the Institute of Psychology of the Jagiellonian University, e-mail: michal.wierzchon@uj.edu.pl, mobile: +48 507 278 080, Institute of Psychology, Jagiellonian University, ul. Ingardena 6, 30-060 Krakow, Poland

5. Research discipline in which the strong international position of the institution ensures establishing a Dioscuri Centre:

Arts, Humanities and Social Sciences

Human nature and human society

6. Description of important research achievements from the selected discipline from the last 5 years including a list of the most important publications, patents, other (up to one page in A4 format):

Institute of Psychology is the center of excellence in psychological studies (including cognitive psychology, social cognition, clinical psychology and health psychology) and cognitive neuroscience studies. Currently, we are realizing 62 research projects financed by multiple funding agencies including National Science Centre and European Union grants for over 33,5 million PLN. Our employees are renewed scientists highly recognized by Polish scientific community (e.g. Prof. Edward Nęcka was elected the Vice President of the Polish Academy of Sciences; Prof. Małgorzata Kossowska is a member of the National Science Centre Council). Our employees have been also awarded with multiple scientific awards, including National Science Centre Award for Prof. Marcin Szwed, Polityka Magazine Award for Prof. Małgorzata Kossowska and Prof. Michał Wierzchoń, Malewski Award for Prof. Aleksandra Gruszka-Gosiewska and Prof. Michał Wierzchoń, and Prime Minister Award for Prof. Przemysław Bąbel and Prof. Agnieszka Niedźwieńska. Our employees have established multiple laboratories, including Centre for Social Cognitive Studies, Pain Research Group, Psychology of Language and Bilingualism Lab, Applied Memory Research Lab, Consciousness Lab, ChildLab, Psychophysiology Lab and Transcranial Magnetic Stimulation Lab. Our employees have published multiple papers in high profile scientific journals (207 papers in the peer-reviewed journals listed in the Journal Citation Reports in the last five years) and presented their studies at the multiple international conferences.

List of the selected, most important publications (2013-2018; Impact Factor over 5.00):

- Bola, Ł., Zimmermann, M., Mostowski, P., Jednoróg, K., Marchewka, A., Rutkowski, P., & Szwed, M. (2017). Task-specific reorganization of the auditory cortex in deaf humans. *Proceedings of the National Academy of Sciences of the United States of America*, 114(4), E600-E609. IF 2017 = 9.504
- Boros, M., Anton, J.-L., Pech-Georgel, C., Grainger, J., Szwed, M., & Ziegler, J. C. (2016). Orthographic processing deficits in developmental dyslexia: beyond the ventral visual stream. *NeuroImage*, 128, 316–327. IF 2016 = 5.835
- Roets, A., Kruglanski, A., Kossowska, M., Pierro, A., & Hong, Y. (2015). The Motivated Gatekeeper of Our Minds: New Directions in Need for Closure Theory and Research. *Advances in Experimental Social Psychology*, 52, 221-283. IF 2015 = 6.150
- Siuda-Krzywicka, K., Bola, Ł., Paplińska, M., Sumera, E., Jednoróg, K., Marchewka, A., ... Szwed, M. (2016). Massive cortical

reorganization in sighted Braille readers. *eLife*, 15(5), 1–26. IF 2016 = 7.725

Świder, K., & Bąbel, P. (2013). The effect of the sex of a model on nocebo hyperalgesia induced by social observational learning. *Pain*, 154(8), 1312-1317. IF 2013 = 5.836

7. List of no more than 3 important research projects from the selected discipline awarded in national and international calls to the institution in the last 5 years (title, name of PI, source of funding, amount of funding):

Behavioural, cognitive and neural mechanisms of self-control. PI: Prof. Edward Nęcka. Funded by National Science Centre within MAESTRO programme, 3 000 000 PLN

Between nationalism and cosmopolitanism: Perceptual and motivational factors shaping critical national attachment. PI: Dr. Maciej Sekerdej. Funded by National Science Centre within SONATA BIS programme, 2 681 700 PLN

METABRAILLE, A longitudinal MRI study on dual Braille/Visual alphabet readers. Challenging the canonical view of the brain where each sensory modality is processed by a dedicated system (visual, somatosensory...), PI: Prof. Marcin Szwed, Funded by EU within Marie Curie Career Integration Grants, 100 000 EUR

8. Description of the available laboratory and office space for the Dioscuri Centre (*up to one page in A4 format*):

Institute of Psychology of the Jagiellonian University is located in a modern, seven-floor building in the very city center of Kraków. It consists of seven departments, three research centers and nine research teams, including Applied Memory Research Lab, Centre for Social Cognitive Studies (www.cscs.edu.pl), Consciousness Lab (www.c-lab.pl), Interdisciplinary Center for Organizational Research and Development, Language and Bilingual Linguistics Lab, ChildLab, Pain Research Group, Laboratory of Experimental Neuropsychology and Szwedlab. Twelve well-equipped research spaces are available in the Institute: Applied Memory Research Laboratory, Laboratory of Psychophysiology, Laboratory of Experimental Psychology, Laboratory of Psychology of Language and Bilingualism, Laboratory of Sleep Psychology, two Laboratories of Social Psychology, Laboratory of General Psychology, Pain Research Laboratory, Consciousness Lab, and ChildLab. Transcranial Magnetic Stimulation Lab is located at the Chair of Neurology of the Jagiellonian University Medical College, also in the very city center of Kraków, with medical staff available 24/7. The Institute has many office rooms, including open space offices and

conference rooms. Dioscuri Centre staff will have a free access to all above-mentioned laboratories of the Institute. They will also have office rooms for their exclusive use.

9. List of the available research equipment for the Dioscuri Centre:

Transcranial Magnetic Stimulation with Neuronavigation

Four independent EEG sets: four 64-channel EEG

Five pain stimulators, including three electrocutaneous, thermal and press stimulators

Three eye trackers

Electromyograph

Psychogalvanometers

VR oculus headsets

Finometer

Observer with Face Reader

Dioscuri Centre staff will have an access to all above-mentioned equipment.

10. List of the additional benefits (other than listed in call text) that the Institution declares to provide for the Dioscuri Centre (i.e.: additional funds, personal benefits, other) (*up to one page in A4 format*):

As a benefit for Dioscuri Centre Jagiellonian University (JU) may provide additional financial support in amount of 25 000 EUR annually.

Moreover, Dioscuri Centre employees will have an access to social benefits offered by JU, including:

- Access to Multisport programme (50% cost coverage by JU),
- JU resort hotel rooms (Zakopane, Rabka, Ustroń k. Wisły) on preferable prices,
- Loans for buying/renovation of flat/house available on preferable financial conditions,
- Loans from JU social allowance and benefit fund available on preferable financial conditions,
- Trips organized by JU on preferable financial conditions,
- Financing support for self-arranged summer and winter holidays,
- One-month additional salary so called thirteen salary,
- Access to JU kindergarten and nursery,
- Language courses at Jagiellonian Language Centre on preferable prices.

JU offers administration support:

- Project Centre (CAWP) - will provide information concerning current research grant possibilities as well as formal support in grant application preparation,
- Welcome Centre - will help in all formalities concerning persons from abroad employment,
- Technology Transfer Centre (CITTRU) will offer a support in all matters concerning Intellectual Property Rights (IPR).

11. Other information about the internationalisation of the research institution, international researchers employed at the institution, the availability of English language seminars etc. (*up to one page in A4 format*):

We employ multiple PhD students and young scientists that have been often trained abroad and now came back to run studies on the international level. Our employees established multiple international collaborations with research centers at Donders Institute for Brain, Cognition and Behaviour of the Radboud University, Aarhus University, Aberdeen University, University of Maryland (both in College Park and in Baltimore), Ghent University, Lipsk University, Helmut-Schmidt-University Hamburg, University of North Texas, University of New South Wale, Florida Atlantic University and many more.

Our employees organize multiple seminars in English. Some Labs have regular meetings in English as they employ or collaborate with the international scientists who do not speak Polish (currently, we employ three PhD students from foreign European countries; we also employed foreign scientists both at post-doc and visiting professor positions). We started off CogNeS - international PhD programme in social and cognitive neuroscience co-founded by the European Union Funds (see <http://cognes.psychologia.uj.edu.pl> for details). Most of the laboratories have extensive collaboration with international scientific institutions. We organized a few international congresses including Conference of the European Society for Cognitive Psychology (ESCoP) (2009), Mid-Year Meeting of the International Neuropsychological Society (2010), Association for the Scientific Studies of Consciousness (2018), Neuronus IBRO Neuroscience Forum (in 2012-2016 and 2018), 4th Implicit Learning Conference (2015, <http://c-lab.pl/conferences/4th-implicit-learning-conference/>) or Small Group Meeting on Social Psychology (2011, 2013, 2016). We have also organized the ESCoP Summer School on consciousness (2012).

We initiated a few international cyclical conferences, including: Cracow Conferences on Psychology and Law, gathering prominent experts whose research is related to issues at the intersection of psychology, psychiatry

and law; and seminars on social cognition (see <http://cscs.edu.pl/conferences/> for details) organized by the Centre for Social Cognitive Studies at our Institute. In collaboration with prof. Katarzyna Chawarska (who graduated from our Institute and now is a Professor in the Child Study Center of the Yale University, the director of the Yale Toddler Developmental Disabilities Clinic and the Director of Yale Early Social Cognition Laboratory) we organize every two years an international conference "Autism - from science to practice", which gathers the world's leading autism researchers.