

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Piotr Poznański, PhD
Position	assistant professor in the Department of Biotechnology and Nutrigenomics
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	Hirsch Index – 8 Citations - 178
Research areas (in points, min. 200 characters, max. 500 characters)	– neurobiology – psychoactive substance abuse – central nervous system injuries – opioid system – blood-brain barrier
Total number of completed research projects; currently implemented research projects (title and number) and selected max. 3 completed projects (title and number) from the newest ones, i.e. 2024, 2023, 2022...	Number of grants implemented during career – 3 – 2024-2025 – post-doc in OPUS 21 project entitled „Utilizing microbial metabolites for multiple sclerosis treatment” – 2021/41/B/NZ6/02219 – 2016-2019 – investigator in project entitled „The role of blood-brain barrier in pathogenesis of alcohol dependence in mouse lines divergently selected for high and low susceptibility to stress” within the Leading National Research Centre Scientific Consortium "Healthy Animal - Safe Food" – 2015 – investigator in OPUS 7 project entitled „Activity of the opioid system in the pathogenesis and therapy of inflammatory disorders in mouse lines with high and low sensitivity to stress” – 2014/13/B/NZ4/01179
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	Total number of publications – 22 ORCID: 0000-0002-1321-2235 SCOPUS ID: 14034781000 Selected publications:

	1. Nawrocka Agata, POZNAŃSKI PIOTR*, Łazarczyk Marzena, Gorzałczyński Michał, Skiba Dominik S., Wolińska Renata, Bujalska-Zadrożny Magdalena, Lutfy Kabirullah, Sadowski Bogdan, Sacharczuk Mariusz, The influence of crossfostering on alcohol consumption and depressive-like behaviors in HA and LA mice: The role of endogenous opioid system (2021), Brain Sciences, doi: 10.3390/brainsci11050622 2. POZNAŃSKI PIOTR, Leśniak Anna, Bujalska-Zadrożny Magdalena, Strzemecka Joanna, Sacharczuk Mariusz, Bidirectional selection for high and low stress-induced analgesia affects G-protein activity (2019), Neuropharmacology, doi: 10.1016/j.neuropharm.2018.10.014 3. POZNAŃSKI PIOTR, Leśniak Anna, Korostyński Michał, Sacharczuk Mariusz, Ethanol consumption following mild traumatic brain injury is related to blood-brain barrier permeability (2018), Addiction Biology, 1-8, doi: 10.1111/adb.12683 4. POZNAŃSKI PIOTR, Leśniak Anna, Korostyński Michał, Szklarczyk Klaudia, Łazarczyk Marzena, Religa Piotr, Bujalska-Zadrożny Magdalena, Sadowski Bogdan, Sacharczuk Mariusz, Delta-opioid receptor antagonism leads to excessive ethanol consumption in mice with enhanced activity of the endogenous opioid system (2017), Neuropharmacology, doi: 10.1016/j.neuropharm.2017.03.016
Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	–
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	2022 – Investigated the role of the cannabinoid system and microglia in inflammatory pain in mice selected for low and high post-stress analgesia. 2021 – Demonstrated the influence of parental upbringing and ethanol consumption “history” on the development of depressive behavior and ethanol consumption preference in offspring in a mouse model with high and low stress sensitivity. 2019 – Identified changes in signaling through opioid and cannabinoid receptors as a mechanism differentiating mouse lines selected for high and low post-stress analgesia. 2018 – Determined significant role of the blood-brain barrier in the pathomechanism of the development and course of alcohol dependence. 2017 – Demonstration that administration of a nonspecific opioid receptor antagonist under conditions of endogenous hyperactivity of this system leads to increased ethanol consumption in a mouse model.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	–
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– Active reviewer for Journal Citation Report journals – Special Issue Editor for the journal Pharmaceuticals (ISSN1424-8247) – Reviewer Board member for the journal NeuroSci (ISSN 2673-4087)

- | | |
|--|--|
| | <ul style="list-style-type: none">– Conducting lectures and laboratories for students– Supervising trainees and interns– Conducting popular science presentations for school-age youth |
|--|--|