

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	SILVESTRE SAMPINO, Ph.D.
Position	Assistant Professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	HI: 11 Scopus citations: 299
Research areas (in points, min. 200 characters, max. 500 characters)	– Embryology – Neurobiology, Neurodevelopment – Developmental origins of adult diseases – Animal models of autism – Placenta – Embryonic Metabolism – Psychology – Autism – Stem Cells – Assisted Reproductive Technologies – Aging – Chimeras
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...	– Total number of completed research projects: 3 – Principal Investigator – NCN SONATA nr. 2014/15/D/NZ4/04274, “Influences of maternal and genetic factors on post-natal behaviors and placental transcriptome in mouse models of autism” – Beneficiary – Scientific Consortium KNOW „Health Animals – Safe Food” Postdoc Internship nr KNOW/IGHZ/RMIC/POSTDOC/2018/04; INRA, Nouzilly, Tours (France) – Project conception and student co-supervision - Scientific Consortium KNOW „Health Animals – Safe Food” – PhD student project: “Effects of prenatal n-3 fatty acids supplementation on behavioral changes elicited by maternal immune activation in a sheep model of autism” – Currently implemented research projects – Principal Investigator of the project - NCN OPUS nr. 2020/39/B/NZ4/02105, “ Inter-strain chimeric mice to study the role of the placenta in the pathogenesis of neurodevelopmental disorders”

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: 18 – Orcid: 0001-8266-5062, https://orcid.org/0000-0001-8266-5062 – Scopus: 55553101900, https://www.scopus.com/authid/detail.uri?authorId=55553101900 Selected Publications: • Marta Marlena Ziętek , <u>Silvestre Sampino</u>[*]. Embryonic factors mediate the maternal age-induced programming of offspring postnatal behavior in mice. <i>Biology of Reproduction</i>. 2023 Jul 11;109(1):45-52. doi: 10.1093/biolre/ioad044. • Marta Ziętek, Katarzyna Barłowska, Barbara Wijas, Ewa Szablisty, Atanas G Atanasov, Jacek A Modliński, Artur H Świergiel, <u>Silvestre Sampino</u>[*]. Preconceptional Resveratrol Supplementation Partially Counteracts Age-Related Reproductive Complications in C57BL/6J Female Mice. <i>Molecules</i>. 2021 Mar 30;26(7):1934. doi: 10.3390/molecules26071934. • Magdalena Kotlarska, Dawid Winiarczyk, Wiesława Florek, Marta Ziętek, Jolanta Pęczkowicz-Szyska, Adrian Mateusz Stankiewicz, Rafał Radosław Starzyński, Roberta Arena, Gaspare Drago, <u>Silvestre Sampino</u>[*], Jacek Andrzej Modlinski. Blastomere removal affects homeostatic control leading to obesity in male mice. <i>Reproduction</i>. 2021 Jan;161(1):61-72. doi: 10.1530/REP-20-0253. • <u>Silvestre Sampino</u>[*], Adrian Mateusz Stankiewicz, Federica Zacchini, Joanna Goscik, Agnieszka Szostak, Artur Hugo Swiergiel, Gaspare Drago, Jacek Andrzej Modlinski, Grażyna Ewa Ptak. Pregnancy at Advanced Maternal Age Affects Behavior and Hippocampal Gene Expression in Mouse Offspring. <i>J Gerontol A Biol Sci Med Sci</i>. 2017 Oct 12;72(11):1465-1473. doi: 10.1093/gerona/glx016. • <u>Silvestre Sampino</u>, Grzegorz R Juszcak, Federica Zacchini, Artur H Swiergiel, Jacek A Modlinski, Pasqualino Loi, Grażyna E Ptak[*]. Grand-paternal age and the development of autism-like symptoms in mice progeny. <i>Translational Psychiatry</i>. 2014 Apr 29;4(4):e386. doi: 10.1038/tp.2014.27.
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)	The research recently conducted by Dr Sampino and his team investigates the influences of genetic and maternal factors, such as advanced maternal age, in the development of the offspring's brain, placenta, and postnatal behavioral and metabolic phenotypes. Dr Sampino's research contributed to the understanding of the etiological factors influencing the manifestation of autism-like behaviors in mice, as well as the vulnerable prenatal developmental windows, providing basic knowledge concerning the origins of neurodevelopmental disorders, such as autism and learning disabilities.

Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	<i>Defended</i> – Magdalena Kotlarska (Co-supervisor) – Marta Marlena Ziętek (Co-supervisor) <i>Ongoing</i> - Dominika Żbikowska (Co-supervisor) - Maria Pia Viscomi (Co-supervisor) - Joanna Czyrska (Co-supervisor) - Abdul Majid Khan (Co-supervisor) - Wiesława Florek (Co-supervisor) - Katarzyna Barłowska (Co-supervisor)
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– 1st PhD students mini Conference IGBZPAN 2023 – “Nauka dla Społeczeństwa” organized by the Polish Ministry of Science and Education, June 5th, 2023. Poster entitled „Zwierzęce modele zaburzeń behawioralnych spowodowanych przez czynniki genetyczne i środowiskowe we wczesnych etapach życia” presented at the IGBZ’s stand in the Politechnik of Warsaw.