

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Katarzyna Filimonow PhD
Position	Assisant professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	WH – 5, citations – 113
Research areas (in points, min. 200 characters, max. 500 characters)	– Preimplantation mammalian development – Specification of the first embryo lineages (epiblast, primitive endoderm, trophectoderm) – EMT - Epithelial to mesenchymal transition – Cell migration – Confoal imaging of embryos
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...	– Completed projects: Principal Investigator of MINIATURA 2 „Characterization of EMT in the periimplantation mouse embryo” 412094 – Ongoing projects: Postdoc in SONATA BIS „Differentiation of first cell lineages in mammalian embryo, rabbit model”
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the profile); indicate selected publications (max. 5)	– 9 publications – ORCID:0000-0002-3924-6011 https://orcid.org/0000-0002-3924-6011 – SCOPUS: 55904538500 https://www.scopus.com/authid/detail.uri?authorId=55904538500 No evidence of involvement of E-cadherin in cell fate specification or the segregation of Epi and PrE in mouse blastocysts. Filimonow K, Saiz N, Suwińska A, Wyszomirski T, Grabarek JB, Ferretti E, Piliszek A, Plusa B, Maleszewski M.

	Specification and role of extraembryonic endoderm lineages in the periimplantation mouse embryo. Filimonow K, de la Fuente R. <i>Theriogenology</i>. 2022 Mar 1;180:189-206. doi: 10.1016/j.theriogenology.2021.12.021. Epub 2021 Dec 23. PMID: 34998083 Review. Multi-level Fgf4- and apoptosis-dependent regulatory mechanism ensures the plasticity of ESC-chimaeric mouse embryo. Soszyńska A, Filimonow K, Wigger M, Wołukanis K, Gross A, Szczepańska K, Suwińska A. –
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)	– Discovery of the first EMT process (<i>Epithelial to mesenchymal transition</i>) in periimplantation mouse embryo. EMT is observed at various stages of mammalian development and disease, including cancer metastasis. In the mouse embryo, it was believed that the first EMT occurs at E6.0 - 6.5, initiating the process of gastrulation. At this stage EMT is crucial for mesoderm formation. In my research I have shown that the first EMT during mouse development occurs at E4.5, when the embryo implants in the uterus. At that time, a subset of the primitive endoderm cells undergoes EMT and migrates to form parietal endoderm. My discovery broke the dogma about the first EMT in the mouse embryo development. My current research focuses on the mechanisms of recruitment of endodermal cells into EMT and migration.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	– Katarzyna Duda, PhD (2024) co-supervisor
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– Classes for invited high schools in IGBZ – Member of BSDB (British Society of Developmental Biology) from 2012; – Member of VSDB (Visegrad Society of Developmental Biology) from 2019; – Volontueer at “Parnas Conference” (Warsaw, 2011); – Volontueer at “Polish Scientific Network Conference” (Warsaw, 2015); – Member of the Organiziting Comittee of the “Mammalian Embryology Conference (Warsaw, 2013);

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| | <ul style="list-style-type: none">– Member of the Organizing Committee of the „From oocyte to Embryo”, Jastrzębiec 2019;– Member of the Arctic expedition Sørkapp Marine Litter Cleanup, Svalbard 2020: https://forscience.pl/svalbard-2021-part-2-the-great-wait/ |
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