



**Warsaw-4-PhD**

Warszawska Szkoła Doktorska  
Nauk Ścisłych i BioMedycznych

## **Results of the second admission round to the Warsaw4PhD Doctoral School**

### **Candidates admitted to the School**

#### **Nencki Institute of Experimental Biology of the Polish Academy of Sciences**

**1. Stefanowski Nataniel**

Project 1.1. Role of metabolic stress in differentiation of pancreatic progenitor and stem cells [Prof. Agnieszka Dobrzyń PhD, DSc]

**2. Brosnan Adam**

Project 1.2. Sensing sociability: the neural basis of differences in social behavior [Ewelina Knapska, PhD Dsc.]

**3. Anik Kumar Das Anik**

Project 1.3. Central amygdala neuronal circuits mediating social and food rewards – connectivity analysis [Ewelina Knapska, PhD Dsc.]

**4. Zielińska Karolina**

Project 1.5. Language breakdown in child neurodevelopmental disorders [Prof. Katarzyna Jednoróg, PhD Dsc.]

**5. Redel Anna**

Project 1.5. Language breakdown in child neurodevelopmental disorders [Prof. Katarzyna Jednoróg, PhD Dsc.]

**6. Yadav Simran**

Project 1.6. Blood plasma microRNA profile as a basis for detecting Alzheimer's disease and dementia risk in pre-symptomatic individuals [Prof. Urszula Wojda, PhD Dsc.]



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**7. Pakuła Barbara**

Project 1.7. The role of impaired autophagy and peroxisome function in NAFLD development and their targeted recovery for improved efficacy of n-3 fatty acids [Prof. Mariusz Więckowski, PhD Dsc.]

**8. Hemmatvand Keyvan**

Project 1.8. Interlaminar astrocytes in primates – from molecular signature to functions in-vivo [Aleksandra Pękowska, PhD.]

**9. Fatima Rida**

Project 1.9. Stearoyl-CoA desaturase as a novel regulator of cardiomyocyte maturation [Prof. Paweł Dobrzyń, PhD Dsc.]

**10. Bilal Namra**

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**11. Tariq Mehlayl**

Project 1.10. Antibodies and microbes as tools for asthma prevention [Dr inż Tomasz Wypych/ Grzegorz Sumara, PhD Dsc.]

## **Institute of Organic Chemistry of the Polish Academy of Sciences**

**1. Chaudhari Aniket**

Project 2.1. The amidyl radical initiated self- or directing group-aided remote C-H functionalization of bifunctional compounds [Dr Sebastian Stecko, Assoc. Professor]

**2. Semwal Divyam**

Project 2.2. Zinc instead of noble metals - designing new catalysts using artificial intelligence methods [Prof. Jacek Młynarski, PhD, DSc.]

**3. Szawro Weronika**

Project 2.3. Donor-acceptor-doped acenes and cyclacenes [Prof. Daniel T. Gryko, PhD, DSc. / Marek Grzybowski, PhD]

**4. Wavhal Deepak**

Project 2.4. Chemoenzymatic cascades of new Cu reactions of significant application potential [Prof. Ryszard Ostaszewski, PhD, DSc.]



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**5. Syed Mastan Sharief**

Project 2.5. Palladium-catalyzed cascades for the rapid and enantioselective construction of spirocyclic scaffolds of alkaloids and pseudo-natural products [Assoc. Prof. Rafal Loska]

## **Institute of Physical Chemistry of the Polish Academy of Sciences**

**1. Khalid Farwa**

Project 3.1. Synergy of Time Resolved Non Uniform Sampling and Diffusion NMR for Automatic Reaction Optimization [Piotr Bernatowicz, PhD, DSc. / Mateusz Urbańczyk, PhD.]

**2. Ain Noor Ul**

Project 3.2. High-Performance Nano-Structural Electrode Materials for Li-S battery [Piotr Pięta, PhD, DSc.]

**3. Yadav Jatin**

Project 3.3. Environmental-friendly and highly efficient perovskite solar cells [Daniel Prochowicz, PhD, DSc. Eng, / Silver Hamill Turren Cruz, PhD.]

**4. Kumar Venkatramanan**

Project 3.4. Synthesis of core-shell nanoparticles for chemosensing and electrosynthesis [Piyush Sharma, PhD, DSc.]

**5. Shrivastav Vaishali**

Project 3.5. Nanoscale detection of redox-active molecules and enzymes [Prof. Marcin Opałto, PhD, DSc. / Wojciech Nogala, PhD. Eng.]

**6. Tahir Sheikh Badar Ud Din**

Project 3.6. Microfluidic-assisted bioprinting with artificial intelligence tools: towards an atlas for modelling in vitro human biology [Prof. dr hab. Maciej Wojtkowski, PhD, DSc. / Marco Costantini, PhD.]

**7. Saran Karolina**

Project 3.8. Design and preparation of the stable cell lines for modified viruses and viral-like particles production [Prof. dr hab. Maciej Wojtkowski, PhD, DSc. / Andrzej Foik, PhD.]



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**8. Musolf Paulina**

Project 3.10. Plasmonic nanoparticles decorated with fluorescently-labelled mRNA: using singlepair FRET effect for investigating enzymes active in mRNA metabolism [Prof. Joanna Niedziółka-Jönsson, PhD, DSc. Eng.]

**9. Zacheja Wiktoria**

Project 3.11. Controlling chirality in nanoplasmonic waveguides via spin-momentum locking: from spectral tunability to sensitive detection of enantiomers and efficient generation of spin polarization [Prof. Joanna Niedziółka-Jönsson, PhD, DSc. Eng.]

**10. Ishaque Ume**

Project 3.12. Ionic liquid mixtures for supercapacitor applications: Theory and simulations [S. Kondrat, PhD, DSc.]

**11. Jurkiewicz Leon**

Project 3.16. Microfluidics-assisted precision printing of granular hydrogels for applications in tissue engineering [Prof. Piotr Garstecki, PhD, DSc. / Jan Guzowski, PhD.]

## **Institute of Physics of the Polish Academy of Sciences**

**1. Gangwar Aman**

Project 4.1. Laser spectroscopy of diatomic molecules [Prof. Włodzimierz Jastrzębski, PhD, DSc. / Jacek Szczepkowski, PhD]

**2. Piotrowska Sara**

Project 4.3. Optical and electronic properties of nitride nanowires with tweaked surfaces (experimental) [Prof. Bogdan Kowalski, PhD, DSc]

## **Maria Skłodowska-Curie National Institute of Oncology State Research Institute**

**1. Wolińska Aleksandra**

Project 7.1. Dissecting immunological responses to neoadjuvant radiotherapy and immunotherapy in soft tissue sarcoma [Prof. Piotr Rutkowski, MD PhD]



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**2. Sokół Maria**

Project 7.2. Role of the expression of steroidogenic factor 1 in somatotroph neuroendocrine pituitary tumors [Mateusz Bujko, PhD]

**3. Zaborowska Marta**

Project 7.3. Colitis induced by treatment with checkpoint inhibitors: a prospective observational study [Edyta Zagórowicz, MD PhD.]

**4. Taraszkiewicz Łukasz**

Project 7.4. Improvement of the Polish Hematooncology Register (PROH) archival data quality and descriptive epidemiological research on hematooncological malignancies in Polish Adolescents and Young Adults (AYA) patients diagnosed in 2000-2022 [Joanna Didkowska, PhD / Irmina Michalek, MD, PhD]

**5. Dey Mritunjoy**

Project 7.5. The role of micro RNA in chondrosarcoma pathobiology [Prof. Anna M. Czarnecka, MD PhD]

## **International Institute of Molecular and Cell Biology in Warsaw**

**1. Antczak Wiktor**

Project 9.1. Therapeutic and endogenous mRNAs metabolism [Prof. Andrzej Dziembowski, PhD, DSc.]

**2. Akramova Madina**

Project 9.2. The role of gut-liver axis in Amanita species mushroom poisoning (NCN/SONATA) [Aleksandra Kołodziejczyk, PhD.]

**3. Serdakov Maksim**

Project 9.4. Dynamics of RNA degrading complexes in bacteria (NCN/SONATA BIS) [Ewelina Malecka – Grajek, PhD.]

**4. Milcz Karolina**

Project 9.6. Adaptation of Proteins to Avoid Premature Degradation by the Ubiquitin-Proteasome System (NCN/SONATA BIS) [Wojciech Pokrzywa, PhD, DSc]

Dyrektor  
Instytutu Biologii Doświadczalnej  
im. M. Nenckiego PAN

  
Prof. dr hab. Agnieszka Dobrzyń