



**Warsaw-4-PhD**

Warszawska Szkoła Doktorska  
Nauk Ścisłych i BioMedycznych

03.02.2025

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

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

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

**1. Terelak Alicja**

Project 1.1. Investigating the neurobiological mechanisms of the anti-addictive effects of psychedelics [dr hab. Adam Hamed]

**2. Nanda Subhamjyoti**

Project 1.2. Central amygdala neuronal circuits mediating social and food rewards – functional analysis [prof. dr hab. Ewelina Knapska]

**3. Kumar Ajeet**

Project 1.4 Antibodies and microbes as tools for asthma prevention [dr Tomasz Wypych]

**4. Laha Ishani**

Project 1.5 Role of astrocytes in chronic stress resilience [prof. dr hab. Leszek Kaczmarek / dr Piotr Michaluk]

**5. Alex Linda**

Project 1.7 Verification of personalized therapeutic strategy for myeloid leukemias with PTPN11 mutations [dr hab. Katarzyna Piwocka]

**6. Mora Tulasiram**

Project 1.8 Development and optimization of a vasculature-on-a-chip approach to investigate endothelial cell response to proinflammatory agents [dr hab. Dorota Dymkowska]

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

### **1. Peta Błażej**

Project 2.1. Precisely Engineered Multichromophore Systems for Applications in Optoelectronics, Nonlinear Optics, and Quantum Computers [Prof. Daniel Gryko, PhD Dsc. / Przemysław Gaweł, PhD]

### **2. Suska Beata**

Project 2.2. Precisely Engineered Multichromophore Systems for Advanced Optoelectronic Applications [Prof. Daniel Gryko, PhD Dsc. / Przemysław Gaweł, PhD]

### **3. K T Akshay**

Project 2.3. Chiral hybrids of quinones and quinols with double anticancer and antimicrobial activity against drug-resistant pathogens as potential agents in hospitalization of cancer treatment [Prof. Ryszard Ostaszewski, PhD Dsc.]

### **4. Aranjiyil Arshad**

Project 2.4. Photoelectrochemical conversion of biomass – development of transformations based on oxidation [Prof. Dorota Gryko, PhD Dsc. / Katarzyna Rybicka-Jasińska, PhD]

### **5. Garag Sonali**

Project 2.5. Stereoselective dearomatization of nonactivated arenes via an „alkene walk” pathway: Rapid access to high-added value poly- and spirocyclic systems from readily available aromatic compounds [Bartosz Zambróń, PhD Dsc.]

### **6. Hassan Shamooun**

Project 2.6. Development of sequential reactions involving Michael additions to enones with subsequent fluoroalenylation and fluoroalkylthiolation [Wojciech Chaładaj, PhD Dsc.]

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

### **1. Wiśniewska Ida**

Project 3.1. The SERS- based Theranostics for Proteomics Analyses of Salivary Gland Tumours Extracellular Vesicles – towards personalized oncology [Prof. Agnieszka Michota-Kamińska, PhD Dsc.]



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**2. Karmakar Saurav**

Project 3.2. Light-induced photoreceptor morphological changes – Towards objective and impartial diagnostics in ophthalmology [Prof. Maciej Wojtkowski, PhD Dsc. / Humberto Fernandes, PhD]

**3. Nelam Kumar**

Project 3.2. Light-induced photoreceptor morphological changes – Towards objective and impartial diagnostics in ophthalmology [Prof. Maciej Wojtkowski, PhD Dsc. / Humberto Fernandes, PhD]

**4. Galagan Nataliya**

Project 3.3. Ultra-high-throughput single-microbe profiling to study microbiome [Prof. Maciej Wojtkowski, PhD Dsc. / Marcin Tabaka, PhD]

**5. Wójcik Magdalena**

Project 3.7. Application of the molecularly imprinted polymer films in electrochemical surface plasmon resonance based sensing [Piyush Sindhu Sharma, PhD Dsc. / Maciej Cieplak, PhD Eng.]

**6. Rasool Ghulam**

Project 3.10. Development of analytical methods for the determination of selected contaminants in dairy products using electrochemical multisensors platform in combination with molecularly imprinted polymer films [Piyush Sindhu Sharma, PhD Dsc. / Krzysztof Noworyta, PhD Eng.]

**7. Ouali Ahmed Elamine**

Project 3.11. Redox processes in nanoscale [Prof. Marcin Opałło, PhD Dsc. / Wojciech Nogala, PhD]

**8. Tiwari Ashish**

Project 3.12. Study of spatiotemporal dynamics of ultrafast fiber lasers [Yuriy Stepanenko, PhD Dsc. / Katarzyna Krupa, PhD Eng.]

**9. Jędrzejczyk Grzegorz**

Project 3.13. Oxygenation processes of organometallics with non-redox active metal centers [Prof. Janusz Lewiński, PhD Dsc. Eng. / Adam Kubas, PhD Dsc.]

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

### **1. Kazemiseresht Navid**

Project 4.1. Bell correlations with spin-1 Bose-Einstein condensates (theoretical)  
[Emilia Witkowska, PhD Dsc.]

### **2. Mubeen Hafsa**

Project 4.2. Quantum structures based on CdMgO and ZnCdO alloys doped with Eu  
[Ewa Przeździecka, PhD Dsc.]

### **3. Tehseen Ijaz**

Project 4.4. Laser spectroscopy of diatomic molecules (experimental)  
[Jacek Szczepkowski, PhD Dsc. / Prof. Włodzimierz Jastrzębski, PhD Dsc.]

### **4. Ali Akbar Ali**

Project 4.5. Quantum dynamics in novel chalcogenide materials and devices  
(experimental) [Ryszard Buczko, PhD Dsc.]

## **Center for Theoretical Physics of the Polish Academy of Sciences**

### **1. Sheikhzadeh Mohammad Foad**

Project 5.1. Studies of Spectrum Broadcast Structures in Quantum Open Systems  
Models [Jarosław Korbicz, PhD Dsc.]

## **Institute of High Pressure of the Polish Academy of Sciences**

### **1. Ivonyak Yurii**

Project 6.1. Magnon-plasmon-polaritons: new solid state quasiparticle  
[Prof. Prof. Wojciech Knap, PhD Dsc. / Marcin Biątek, PhD.]

### **2. Nhaloor Sooraj**

Project 6.2. Design, fabrication and characterization of arrays of micro light emitting  
diodes [Prof. Czesław Skierbiszewski, PhD Dsc. / Grzegorz Muzioł, PhD Eng.]

### **3. Parasar Pragya**

Project 6.3. Design, fabrication and characterization of multi-junction distributed  
feedback laser diodes [Prof. Czesław Skierbiszewski, PhD Dsc. / Grzegorz Muzioł, PhD  
Eng.]



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## International Institute of Molecular and Cell Biology in Warsaw

### 1. Jawor Magdalena

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

### 2. Akhtar Nashat

Project 9.2. Design of "stealth" asparaginases for the treatment of acute lymphoblastic leukemia (ALL) [Prof. Matthias Bochtler, PhD DSc.]

### 3. Nadeem Muhammad

Project 9.4 Investigating picornavirus translation initiation as a potential therapeutic target [Prof. Gracjan Michlewski, PhD DSc. / Stefan Bresson, PhD]

Dyrektor  
Instytutu Biologii Doświadczalnej  
Im. M. Nenckiego PAN

*A. Dobrzyń*  
Prof. dr hab. Agnieszka Dobrzyń