Warsaw-4-PhD
Warszawska Szkoła Doktorska
Nauk Ścisłych i BioMedycznych

Results of the second admission to the Warsaw4PhD Doctoral School

Candidates admitted to the School

The Nencki Institute of Experimental Biology of the Polish Academy of Sciences

1. **Alwani Anna**

   Project 1.2. Can transfer of genes encoding DREADD receptors to selected motoneurons in the transected spinal cord restore motor function? Synaptic and receptor changes in motoneurons caused by chemogenetic activation [prof. Małgorzata Skup, Ph. D.]

2. **Petrazzo Gregory**

   Project 1.3. Targeting senescent brain cells to improve cognitive function in animal models of ageing and depression [prof. Ewa Sikora / (in collaboration with) prof. Jakub Włodarczyk]

3. **Zębrowski Aleksander**

   Project 1.5. Identifying electrophysiological correlates of visual awareness by a single-trial EEG analysis [dr Michał Bola/ dr hab Michał Wierzchoń, prof. UJ]

4. **Pytyś Agata**

   Project 1.6. The role of lipid modifications of proteins in functional neuronal plasticity, learning and memory [prof. dr hab. Jakub Włodarczyk/ promotor pomocniczy: dr n. med. Tomasz Wójtowicz]

5. **Gbadamosi Ismail**

   Project 1.7. To investigate the interplay between metabolic and epigenetic factors in pathogenesis and inheritance of neuropsychiatric disorders [dr Ali Jawaid]

6. **Gomółka Magdalena**

   Project 1.7. To investigate the interplay between metabolic and epigenetic factors in pathogenesis and inheritance of neuropsychiatric disorders [Dr Ali Jawaid]

7. **Turos-Korgul Laura**

   Project 1.8. Cell adhesion molecules as regulators of tunneling nanotubes (TNTs) formation and function in leukemia microenvironment [dr hab. Katarzyna Piwocka]

8. **Wiśniewska Justyna**

   Project 1.11. Synaptic plasticity of appetitive learning [dr Anna Beroun]

9. **Duński Eryk**

   Project 1.12. Identification of genes and evolutionary changes in the genome that underlie the human-specific features of astrocytes [dr Aleksandra Pękowska]

10. **Wójcik Marta**

    Project 1.13. Neural and cognitive basis of spelling impairment [dr Agnieszka Dębska/ dr hab. Katarzyna Jednoróg, prof. Nencki Institute]

11. **Wydrych Agata**

    Project 1.14. Ubiquitin as a modulator of the mitochondrial protein import process [dr Piotr Brągoszewski]

12. **Glica Agnieszka**

    Project 1.15. Verification of the neural noise hypothesis of dyslexia – a study using functional magnetic resonance spectroscopy [dr hab. Katarzyna Jednoróg, prof. Nencki Institute]

13. **Szeligowska Katarzyna**

    Project 1.16. Verification of the neural noise hypothesis of dyslexia – a study using fMRI and EEG [dr hab. Katarzyna Jednoróg, prof. Nencki Institute]

The Institute of Organic Chemistry of the Polish Academy of Sciences

14. Gana Sanil

Project 2.2. Synthesis of non-planar heterocyclic nanographenes via CH-activation [prof. Daniel Gryko]

15. Araujo Badaro Jaqueline Stella

Project 2.3. Synthesis of small fluorophores possessing aromatic imide scaffold for virus proteases' detection [prof. Daniel Gryko]

16. Raveena

Project 2.4. Gated nanozymes: Hybrid, on-nanoparticle catalysts with long-range substrate selectivity [prof. dr Bartosz Grzybowski]

The Institute of Physical Chemistry of the Polish Academy of Sciences

17. Kruszyńska Joanna

Project 3.2. Development of strategies for improving stability of lead halide perovskites [Dr hab. inż. Daniel Prochowicz]

18. Kravets Keteryna

Project 3.3. Ion permeation in the molecular crystals [Dr hab. Oksana Danylyuk]

19. Palanisamy Rupa Ranjani

Project 3.5. Electrochemistry in microfluidic cells for high-throughput multiple response analyses [dr hab. Martin Jönsson-Niedziółka, prof. instytutu]

20. Koszewska Agnieszka

Project 3.6. Leukaemia cells under controlled shear flow in microfluidic channels [prof. dr hab. Piotr Garstecki/Co-supervisor: Dr Ladislav Derzsi]

21. Gajda Marianna

Project 3.7. Paper and other fibrous materials as micro/nanomolds for deposition on electrodes surface molecularly imprinted polymers of developed surface [dr hab. Piyush S. Sharma/Co-supervisor: Dr inż. Maciej Cieplak]

22. Navarette Jonathan Pullas

Project 3.8. Printing of self-assembling droplet arrays: from physical mechanisms of self-assembly to applications in cell encapsulation and high-throughput screening [prof. dr hab. Piotr Garstecki/Co-supervisor: Dr Jan Guzowski]

23. Sareen Sakshi

Project 3.9. Study of nanoviscosity changes during cell death [prof. dr hab. Robert Hołyst/Co-supervisor: Dr inż. Karina Kwapiszewska]

24. Pyrcz Patryk

Project 3.10. Chemistry and photophysics of molecules in nanocavities [prof. dr hab. Jacek Waluk/Co-supervisor: Dr Sylwester Gawinkowski]

25. Celej Joanna

Project 3.12. Localization and determination of redox activity in biological cells [prof. dr hab. Marcin Opałło/Co-supervisor: Wojciech Nogala]

26. Bałamut Bartłomiej

Project 3.14. A new approach of vision restoration based on modified Rabies virus tracing technique [prof. dr hab. Maciej Wojtkowski/Co-supervisor: Dr Andrzej Foik]

27. Pal Sushmita

Project 3.15. Models of bacterial response to antibiotics [dr hab. Anna Ochab-Marcinek/Co-supervisor: Dr Bartłomiej Wacław]

28. Kornacki Dawid

Project 3.17. Development of new pathways for CO2 utilization [prof. dr hab. inż. Janusz Lewiński]

29. K Vighnesh

Project 3.18. Morphological and structural evolution of organic-inorganic metal halide perovskites [prof. dr hab. inż. Janusz Lewiński]

30. Deepika

Project 3.19. Design and preparation of zinc oxide quantum dots for photovoltaic applications [prof. dr hab. inż. Janusz Lewiński]

31. Wdowiak Mateusz

Project 3.20. Bacteriophage-based biosensors for bacteria detection [prof. dr hab. Robert Hołyst/Co-supervisor: dr Jan Paczesny]

32. Shahab Samaneh

Project 3.4. Ultrafast chemical reactions in the dark [dr hab. Gonzalo M. Angulo Núñez/ Co-Supervisor: Dr inż. Marcin Pastorczak]

The Institute of Physics of the Polish Academy of Sciences

33. Carnevale da Cunha Luis

Project 4.2. Multiscale Simulation of Break-up droplet dynamics (theoretical) [dr hab. Piotr Deuar / Dr Panagiotis Theodorakis]

34. Kajouri Russell

Project 4.3. Multiscale Simulation of spontaneous liquid motion on nanopatterned substrates (theoretical) [dr hab. Piotr Deuar / Dr Panagiotis Theodorakis]

35. Jagadeesan Rahul

Project 4.4. Computational studies of disulfide bonds (theoretical) [prof. dr hab. Mai Suan Li, dr Paweł Krupa]

36. Govind Gokul

Project 4.5. Protein folding and aggregation on the ribosome (theoretical) [prof. dr hab. Mai Suan Li]

37. Dey Jaydeb

Project 4.11. Magnetic order in nanolaminated MAX phases based on Mn2GaC (experimental) [dr hab. Marek Wójcik, professor IFPAN]

38. Das Kausik

Project 4.12. Precessional magnetization switching in ferromagnetic (Ga,Mn)N layers using sub-nanosecond short electric pulses (experimental) [prof. dr hab. Maciej Sawicki/dr Dariusz Sztenkiel]

39. Borkowska Paulina

Project 4.13. Interactions between the fusion peptide and the transmembrane domain of hemagglutinin (experimental) [dr hab. Bartosz Różycki, dr Remigiusz Worch]

40. Haider Syed Sadhi

Project 4.14. Mechanoluminescent displays and sensors based on nanostructured piezoelectric materials (experimental) [prof. Andrzej Suchocki]

41. CS Pooja

Project 4.19. Laser spectroscopy of diatomic molecules (experimental) [prof. dr hab. Włodzimierz Jastrzębski/dr Jacek Szczepkowski]

42. Prem Sarath

Project 4.20. Dynamics of topological defects coupled to environments (theoretical) [Mircea Trif / Tomasz Dietl]

43. Khan Muhammad Asad

Project 4.21. Ultrafast structural transitions in condensed matter (experimental) [dr hab. inż. Ryszard Sobierajski]

44. Palai Swaroop

Project 4.22. Properties and interactions of group IV-VI semiconductor multiferroics (experimental) [dr hab. Łukasz Kilański]

45. Tanwar Pardeep

Project 4.23. Heat transport by topological excitations (experimental) [dr hab. Marcin Matusiak]

46. Farooq Omer

Project 4.17 Quantum and wave-dynamical chaos in low dimensional systems (experimental+theoretical) [Prof. dr hab. Leszek Sirko]

The Center for Theoretical Physics of the Polish Academy of Sciences

47. Zipper Matthias

Project 5.2. Studies of aspects of objectivity in quantum mechanics [dr hab. Jarosław Korbicz]

48. Kopyciński Jakub

Project 5.4. NUANCE 1 : Study of novel qauntum phases in cold gases using ab initio methods [dr Krzysztof Pawłowski]

49. Słowik Oskar

Project 5.6. Shallow quantum circuits and random walks in compact groups [prof. Adam Sawicki]

50. Makuta Owidiusz

Project 5.1. Characterization and certification of quantum resources [dr Remigiusz Augusiak]

51. Rybotycki Tomasz

Project 5.3. Practical and theoretical aspects of near-term quantum computers [dr Michał Oszmaniec]

The Institute of High Pressure Physics of the Polish Academy of Sciences

52. Cherniadev Alexander

Project 6.1. Investigations of coupled photonic and plasmonic metasurface resonators for terahertz frequency range [prof. IHPP PAS Alvydas Lisauskas]

53. Ahmad Ashfaq

Project 6.2. Application and development of ab initio methods for determination of the properties of surfaces and quantum structures of group III nitrides [dr hab. Paweł Strąk, prof. IWC PAN]

54. Abdur-Rehman Anwar

Project 6.4. Topological phase transition in semiconductor nanostructures based on indium gallium nitride [dr hab. Sławomir Paweł Łepkowski, prof. in IWC PAN]

55. Madhavi Dalsaniya

Project 6.5. Calculations of the thermodynamic stability and properties at high pressure of fluorides of oxygen and sulphur [dr hab. Paweł Strąk / dr. hab. Dominik Kurzydłowski]

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Nauk Ścisłych i BioMedycznych

Maria Sklodowska-Curie National Research Institute of Oncology

56. Pathan Hummaira

Project 7.1. Molecular characteristics of the response to neoadjuvant chemotherapy in patients with locally advanced soft tissue sarcomas [Anna Czarnecka, DSc PhD/ Co-supervisor: Mateusz Spalek, MD PhD]

The International Institute of Molecular and Cell Biology in Warsaw

57. Obrębski Tomasz

Project 9.3. The impact of cytoplasmic polyadenylation on local translation in neurons [prof. dr hab. Andrzej Dziembowski]

58. Azmain Tousif

Project 9.1. Elucidating the epigenetic contribution to cardiovascular lineage specification [dr Cecilia Winata]

59. Szulc Natalia

Project 9.2. Lysine deserts as a universal mechanism to escape premature proteins degradation [dr hab. Wojciech Pokrzywa]

Przewodniczący Rady Dyrektorów
Warszawska Szkoła Doktorska
Nauk Ścisłych i BioMedycznych
Prof. dr hab. Agnieszka Dobrzyń