Publikacje ICHB PAN indeksowane w bazie Web of Science 2025

1. Tomasz Laskowski, Michał Kosno, **Witold Andrałojć**, Julia Pakuła, Rafał Stojałowski, Julia Borzyszkowska-Bukowska, Ewa Paluszkiewicz, Zofia Mazerska, "The interactions of Pu22 G-quadruplex, derived from *c-MYC* promoter sequence, with antitumor acridine derivatives—An NMR/MD combined study", *Molecular Therapy Nucleic Acids*, 36, art. nr 102513, 2025. DOI: 10.1016/j.omtn.2025.102513

2. Karolina Kułak**, Anna Samelak-Czajka**, **Małgorzata Marszałek-Zeńczak**, Kornel M. Michalak, **Magdalena Trybus**, Julia Minicka, **Paulina Jackowiak**, Agnieszka Bagniewska-Zadworna "Identification of phloem-specific proteinaSEOus structure heterogeneity in sieve element of *Populus trichocarpa", BMC Plant Biology*, 2025. DOI: 10.1186/s12870-025-06439-4

3. **Magdalena Surdyka**, Żaneta Kalinowska-Pośka, Anna Niewiadomska-Cimicka, **Ewelina Jesion , Agnieszka Fiszer**, Elisabeth Singer-Mikosch, Lorraine Fievet, **Łukasz Przybył**, Nicholas S. Caron, Michael R. Hayden, Huu Phuc Nguyen, Yvon Trottier, **Maciej Figiel,** "CAG-targeted brain-permeable therapy tested in biallelic humanized polyQ mouse models", *Molecular Therapy Nucleic Acids*, 36, art. nr 102496, 2025. DOI: 10.1016/j.omtn.2025.102496

4. Olgierd Ludwiczak, **Maciej Antczak, Marta Szachniuk**, "Assessing interface accuracy in macromolecular complexes", *PLOS One*, 20, art. nr e0319917, 2025. DOI: 10.1371/journal.pone.0319917

5. **Natalia Bartyś, Jolanta Lisowiec-Wąchnicka, Anna Pasternak**, "Thermodynamic control of mismatch discrimination for extensive splicing regulation of PKM pre-mRNA", *RNA*, 31, 475-485, 2025. DOI: 10.1261/rna.080212.124

6. Yushan Wu, Rui Cheng, Hao Lin, Lili Li, Yongbin Jia, **Anna Philips**, Tao Zuo, Hu Zhang, "Gut virome and its implications in the pathogenesis and therapeutics of inflammatory bowel disease", *BMC Medicine*, 23, art. nr 183, 2025. DOI: 10.1186/s12916-025-04016-y

7. **Klaudia Wójcik, Paulina Krzemińska, Anna Kurzyńska-Kokorniak**, "Possible role of human ribonuclease dicer in the regulation of R loops", *FEBS Open Bio*, 2025. DOI: 10.1002/2211-5463.70026
8. Weidong Li, Yaru Yang, Man Xiao, Xin Chen, Małgorzata Sterna, **Jacek Błażewicz**, "Scheduling with a discounted profit criterion on identical machines", *Discrete Applied Mathematics*, 367, 195-209, 2025. DOI: 10.1016/j.dam.2025.02.015

9. Ielizaveta Gorodetska, Vasyl Lukiyanchuk, Marta Gawin, Myroslava Sliusar, Annett Linge, Fabian Lohaus, Tobias Hölscher, Kati Erdmann, Susanne Fuessel, Angelika Borkowetz, Anna Wojakowska, Daniel Fochtman, Mark Reardon, Ananya Choudhury, Yasmin Antonelli, Aldo Leal-Egaña, Ayse Sedef Köseer, Uğur Kahya, Jakob Püschel, Andrea Petzold, Daria Klusa, Claudia Peitzsch, Romy Kronstein-Wiedemann, Torsten Tonn, **Łukasz Marczak**, Christian Thomas, Piotr Widłak, Monika Pietrowska, Mechthild Krause, Anna Dubrovska, "Blood-based detection of MMP11 as a marker of prostate cancer progression regulated by the ALDH1A1-TGF-β1 signaling mechanism", *Journal of Experimental & Clinical Cancer Research*, 44, art. nr 105, 2025. DOI: 10.1186/s13046-025-03299-6

10. Runping Su, Weijie Wen, Yufeng Jin, Zhirui Cao, Zhiyang Feng, Jie Chen, Yu Lu, Guicheng Zhou, Chao Dong, Shanshan Gao, Xue Li, Hu Zhang, Kang Chao, Ping Lan, Xiaojian Wu, Anna Philips, Kun Li, Xiang Gao, Fen Zhang, Tao Zuo, "Dietary whey protein protects against Crohn's disease by orchestrating cross-kingdom interaction between the gut phageome and bacteriome", *GUT*, 2025. DOI: 10.1136/gutjnl-2024-334516

11. Alva Abrahamsson, Andreas Berner, **Justyna Gołębiewska-Pikuła**, Namrata Chaudhari, Emelie Keskitalo, Cecilia Lindgren, **Marcin K. Chmielewski**, Sjoerd Wanrooij, Erik Chorell, "Linker Design Principles for the Precision Targeting of Oncogenic G-Quadruplex DNA with G4-Ligand-Conjugated Oligonucleotides", *Bioconjugate Chemistry,* 2025. DOI: 10.1021/acs.bioconjchem.5c00008

12. Sebastian Szubert, Magdalena Nadolna, Paweł Wawrzynowicz, Agnieszka Horała, Julia Kołodziejczyk, Łukasz Koberling, Paweł Caputa, **Mikołaj Piotr Zaborowski**, Ewa Nowak-Markwitz, "Surgical Techniques for Radical Trachelectomy", *Cancers*, 17, art. nr 985, 2025. DOI: 10.3390/cancers17060985
13. **Justyna Gołębiewska-Pikuła**, Alva Abrahamsson, Erik Chorell, "Phosphate triester-based multifunctional handles for post-synthetic oligonucleotide functionalization", *Bioorganic Chemistry*, 157, art. nr 108259, 2025. DOI: 10.1016/j.bioorg.2025.108259

14. **Mirosław Gilski**, Mannar R. Maurya, Bogusław Nocek, **Krzysztof Brzeziński**, "Editorial: The influence of metal ions and their complexes on the function and structure of biological macromolecules", *Frontiers in Chemistry*, 13, art. nr 1563537, 2025. DOI: 10.3389/fchem.2025.1563537

15. Jessica C. Gardner, Katarina Jovanovic, Daniele Ottaviani, Uirá Souto Melo, Joshua Jackson, Rosellina Guarascio, Kalliopi Ziaka, Kwan-Leong Hau, Amelia Lane, Rachel L. Taylor, Niuzheng Chai, Christina Gkertsou, Owen Fernando, **Monika Piwecka**, Michalis Georgiou, Stefan Mundlos, Graeme C. Black, Anthony T. Moore, Michel Michaelides, Michael E. Cheetham, Alison J. Hardcastle , "Inter-chromosomal insertions at Xq27.1 associated with retinal dystrophy induce dysregulation of *LINC00632* and *CDR1as/ciRS-7", American Journal of Human Genetic*, 112, 523-536, 2025. DOI: 10.1016/j.ajhg.2025.01.007

16. Simón Poblete, Mikołaj Młynarczyk, **Marta Szachniuk**, "Unknotting RNA: A method to resolve computational artifacts", *Plos Computational Biology*, 21, art. nr e1012843, 2025. DOI: 10.1371/journal.pcbi.1012843

17. Zbigniew Dauter, **Mariusz Jaskólski**, "Honeycombs - their variety, topology and symmetry", *Acta Crystallographica A- Foundation and Advances*, 81, 159-166, 2025. DOI: 10.1107/S2053273325000889

18. **Linh. H. Tan, Miłosz Ruszkowski**, "ARR1 and AHP interactions in the multi-step phosphorelay system", 16, 2025. *Frontiers in Plant Science*, DOI: 10.3389/fpls.2025.1537021

19. **Julia Latowska-Łysiak, Żaneta Zarębska**, Marcin P. Sajek, Adriana Grabowska, Alessia Buratin, **Paweł Głodowicz**, **Julia O. Misiorek**, Konrad Kuczyński, Stefania Bortoluzzi, Marek Żywicki, Jan G. Kosiński, Agnieszka Rybak-Wolf, Rafał Piestrzeniewicz, Anna M. Barciszewska, **Katarzyna Rolle**, "Transcriptome-wide analysis of circRNA and RBP profiles and their molecular relevance for GBM", *Molecular Oncology*, 2025. DOI: 10.1002/1878-0261.70005

20. **Natalia Szóstak, Michał Budnik, Katarzyna Tomela, Luiza Handschuh, Anna Samelak-Czajka**, Bernadeta Pietrzak, Marcin Schmidt, Mariusz Kaczmarek, Łukasz Galus, Jacek Mackiewicz, Andrzej Mackiewicz, **Piotr Kozłowski, Anna Philips**, "Exploring correlations between gut mycobiome and lymphocytes in melanoma patients undergoing anti-PD-1 therapy", *Cancer Immunology, Immunotherapy*, 74, art. nr 110, 2025. DOI: 10.1007/s00262-024-03918-9

21. María J. Esteban-Amo, Amaia Telleria, Dino Gobelli, Pablo Serrano-Lorenzo, Juan J. Tellería, María T. Pérez-García, **Piotr Kozłowski**, Miguel Á. de la Fuente, María Simarro, "Identification of a novel transcript of mouse Sdha", *BMC Research Notes*, 18, art. nr 83, 2025. DOI: 10.1186/s13104-025-07149-8

22. Arvind Srinivasan, **Dorota Magner, Piotr Kozłowski, Anna Philips**, Arkadiusz Kajdasz, Paweł Wojciechowski, **Marzena Wojciechowska**, "Global dysregulation of circular RNAs in frontal cortex and whole blood from DM1 and DM2", *Human Genetics*, 2025. DOI: 10.1007/s00439-025-02729-x

23. **Tomasz Mądry**, Jadwiga Gajewy, Marcin Gwit, "Dynamic Point-to-Helical and Point-to-Axial Chirality Transmission and Induction of Optical Activity in Multichromophoric Systems: Basic Principles and Relevant Applications in Chirality Sensing", *Symmetry-Basel*, 17, art. nr 293, 2025. DOI: 10.3390/sym17020293

24. Piotr J. Pietras, Monika Chaszczewska-Markowska, Daniel Ghete, **Agata Tyczewska, Kamilla Bąkowska-Żywicka**, "*Saccharomyces cerevisiae* recovery from various mild abiotic stresses: Viability, fitness, and high resolution three-dimensional morphology imaging", *Fungal Genetics and Biology*, 178, art. nr 103975, 2025. DOI: 10.1016/j.fgb.2025.103975

25. **Marta Sztachera, Weronika Wendlandt-Stanek,** Remigiusz A. Serwa, Luiza Stanaszek, Michał Smuszkiewicz, **Dorota Wronka, Monika Piwecka, "**Interrogation of RNA-bound proteome with XRNAX illuminates molecular alterations in the mouse brain affected with dysmyelination", *Cell Reports*, 44, art. nr 115095, 2025. DOI: 10.1016/j.celrep.2024.115095

26. Tatyana Platonova, Oleksii Hrabovskyi, Volodymyr Chernyshenko, Yevhenii Stohnii, Yevhenii Kucheriavyyi, Kateryna Baidakova, Daria Korolova, **Anna Urbanowicz**, Serhiy Komisarenko, "Alternative Role of B/b Knob–Hole Interactions in the Fibrin Assembly", *Biochemistry*, 2025. DOI: 10.1021/acs.biochem.4c00695

27. Aleksandra Antonczyk, Katarzyna Kluzek, Natalia Herbich, Mahdi Eskandarian Boroujeni, Bart Krist, **Dorota Wronka, Anna Karlik, Łukasz Przybył**, Adam Plewiński, Joanna Wesoły, Hans A. R. Bluyssen, "Identification of ALEKSIN as a novel multi-IRF inhibitor of IRF- and STAT-mediated transcription in vascular inflammation and atherosclerosis", *Frontiers in Pharmacology*, 15, 2025. DOI: 10.3389/fphar.2024.1471182

28. Nivedita Dutta, Indrajit Deb, **Joanna Sarzyńska**, Ansuman Lahiri, "Structural and Thermodynamic Consequences of Base Pairs Containing Pseudouridine and N1-methylpseudouridine in RNA Duplexes", *Chemistry Select*, 10, art. nr e202400006, 2025. DOI: 10.1002/slct.202400006

29. Karolina Ciesielska, **Dariusz Wawrzyniak**, Grzegorz Dutkiewicz, Maciej Kubicki, Wojciech Jankowski, Marcin Hoffmann, **Karol Kamel, Katarzyna Rolle**, Donata Pluskota-Karwatka, "Diastereoselective synthesis and biological evaluation of new fluorine-containing α-aminophosphonates as anticancer agents and scaffold to human urokinase plasminogen

activator inhibitors", *European Journal of Medicinal Chemistry*, 283, art. nr 117116, 2025. DOI: 10.1016/j.ejmech.2024.117116

30. **Carolina Roxo, Anna Pasternak,** "Switching off cancer – An overview of G-quadruplex and i-motif functional role in oncogene expression", *Bioorganic & Medicinal Chemistry Letters*, 116, art. nr 130038, 2025. DOI: 10.1016/j.bmcl.2024.130038

31. **Kinga Pokrywka, Marta Grzechowiak, Joanna Śliwiak, Paulina Worsztynowicz**, Joanna I. Loch, **Miłosz Ruszkowski, Mirosław Gilski, Mariusz Jaskólski**, "Controlling enzyme activity by mutagenesis and metal exchange to obtain crystal structures of stable substrate complexes of Class 3 l-asparaginase", *FEBS Journal*, 2025. DOI: 10.1111/febs.17388

32. **Aleksandra Jarmołowicz, Nivedita Dutta, Witold Andrałojć, Joanna Sarzyńska, Grzegorz Framski, Daniel Baranowski, Jerzy Boryski, Ansuman Lahiri, Zofia Gdaniec, Elżbieta Kierzek, Ryszard Kierzek,** "The oligonucleotides containing N7-regioisomer of guanosine: influence on thermodynamic properties and structure of RNA duplexes", *RNA*, 31, 86-99, 2025. DOI: 10.1261/rna.080106.124