

## Publikacje ICHB PAN indeksowane w bazie Web of Science 2021

1. **Mariusz Popenda**, Tomasz Zok, **Joanna Sarzyńska**, Agnieszka Korpeta, **Ryszard W. Adamiak**, **Maciej Antczak**, **Marta Szachniuk**, „Entanglements of structure elements revealed in RNA 3D models”, *Nucleic Acids Research*, 49, 9625-9632, 2021. [DOI:10.1093/nar/gkab716](https://doi.org/10.1093/nar/gkab716)
2. Zohreh Ghanbarzadeh, Hajar Zamani, Sasan Mohsenzadeh, **Łukasz Marczak**, **Maciej Stobiecki**, Mehdi Zarei, „Rhizosphere symbionts improve water stress tolerance in Moldavian balm through modulation of osmolytes”, *Rhizosphere*, 19, art. nr 100367, 2021. [DOI: 10.1016/j.rhisph.2021.100367](https://doi.org/10.1016/j.rhisph.2021.100367)
3. **Weronika Kotkowiak**, **Anna Pasternak**, „Beyond G-Quadruplexes-The Effect of Junction with Additional Structural Motifs on Aptamers Properties”, *International Journal of Molecular Sciences*, 22, art. nr 9948, 2021. [DOI: 10.3390/ijms22189948](https://doi.org/10.3390/ijms22189948)
4. Paweł Szczepblewski, Justyna Górka, **Witold Andrałojć**, Patryk Janke, Karolina Wąsik, Tomasz Laskowski, „Iso-Partricin, an Aromatic Analogue of Amphotericin B: How Shining Light on Old Drugs Might Help Create New Ones”, *Antibiotics – Basel*, 10, art. nr 1102, 2021. [DOI: 10.3390/antibiotics10091102](https://doi.org/10.3390/antibiotics10091102)
5. **Dorota Gudanis**, **Karolina Zielińska**, **Daniel Baranowski**, **Ryszard Kierzek**, **Piotr Kozłowski**, **Zofia Gdaniec**, „Impact of a Single Nucleotide Change or Non-Nucleoside Modifications in G-Rich Region on the Quadruplex–Duplex Hybrid Formation”, *Biomolecules*, 11, art. nr 1236, 2021. [DOI: 10.3390/biom11081236](https://doi.org/10.3390/biom11081236)
6. Donata Pluskota-Karwatka, Marcin Hoffmann, **Jan Barciszewski**, „Reducing SARS-CoV-2 pathological protein activity with small molecules”, *Journal of Pharmaceutical Analysis*, 11, 383-397, 2021. [DOI: 10.1016/j.jpha.2021.03.012](https://doi.org/10.1016/j.jpha.2021.03.012)

7. **Agnieszka Szczepańska, Marta Wojnicka, Anna Kurzyńska-Kokorniak**, „The Significance of the DUF283 Domain for the Activity of Human Ribonuclease Dicer”, *International Journal of Molecular Sciences*, 22, art. nr 8690, 2021. [DOI: 10.3390/ijms22168690](https://doi.org/10.3390/ijms22168690)
8. **Julita Gumna, Angelika Andrzejewska-Romanowska**, David J. Garfinkel, **Katarzyna Pachulska-Wieczorek**, „RNA Binding Properties of the Ty1 LTR-Retrotransposon Gag Protein”, *International Journal of Molecular Sciences*, 22, art. nr 9103, 2021. [DOI: 10.3390/ijms22169103](https://doi.org/10.3390/ijms22169103)
9. Arkadiusz D. Liśkiewicz, Daniela Liśkiewicz, **Łukasz Marczak**, Marta Przybyła, Konstancja Grabowska, Sebastian Student, Magdalena Dębiec, Anna Sługocka, Joanna Lewin-Kowalik, „Obesity-associated deterioration of the hippocampus is partially restored after weight loss”, *Brain, Behavior, and Immunity*, 96, 212-226, 2021. [DOI: 10.1016/j.bbi.2021.05.030](https://doi.org/10.1016/j.bbi.2021.05.030)
10. Agnieszka Chełkowska-Pauszek, Jan Grzegorz Kosiński, **Klementyna Marciniak**, Marta Wysocka, **Kamilla Bąkowska-Żywicka**, Marek Żywicki, „The Role of RNA Secondary Structure in Regulation of Gene Expression in Bacteria”, *International Journal of Molecular Sciences*, 22, art. nr 7845, 2021. [DOI: 10.3390/ijms22157845](https://doi.org/10.3390/ijms22157845)
11. Giuseppe Forlani, Bogusław Nocek, **Miłosz Ruszkowski**, „Peculiar substrate specificity of δ1-pyrroline-5-carboxylate reductase in the obligately fermentative bacterium *Zymomonas mobilis*”, *Molecular Biology Reports*, 48, 6205-6211, 2021. [DOI: 10.1007/s11033-021-06591-8](https://doi.org/10.1007/s11033-021-06591-8)
12. Adam Czyżewski, Faustyna Krawiec, **Dariusz Brzeziński**, Przemysław Jerzy Porębski, Władek Minor, „Detecting anomalies in X-ray diffraction images using convolutional neural networks”, *Expert Systems with Applications*, 174, art. nr 114740, 2021. [DOI: 10.1016/j.eswa.2021.114740](https://doi.org/10.1016/j.eswa.2021.114740)
13. **Dariusz Brzeziński**, Przemysław J. Porębski, **Marcin Kowiel**, Joanna M. Macnar, Władek Minor, „Recognizing and validating ligands with CheckMyBlob”, *Nucleic Acids Research*, 49, W86-W92, 2021. [DOI: 10.1093/nar/gkab296](https://doi.org/10.1093/nar/gkab296)

14. **Luiza Handschuh, Paweł Wojciechowski**, Maciej Kaźmierczak, Krzysztof Lewandowski, „Transcript-Level Dysregulation of *BCL2* Family Genes in Acute Myeloblastic Leukemia”, *Cancers*, 13, art. nr 3175, 2021. [DOI: 10.3390/cancers13133175](https://doi.org/10.3390/cancers13133175)
15. Jun-Jun Liu, **Humberto Fernandes**, Arezoo Zamany, Michał Sikorski, **Mariusz Jaskólski**, Richard A. Sniezko, „In-vitro anti-fungal assay and association analysis reveal a role for the *Pinus monticola* PR10 gene (PmPR10-3.1) in quantitative disease resistance to white pine blister rust”, *Genome*, 64, 693-704, 2021. [DOI: 10.1139/gen-2020-0080](https://doi.org/10.1139/gen-2020-0080)
16. Ewa Jończyk-Matysiak, Barbara Owczarek, Ewa Popiela, Kinga Świtąła-Jeleń, Paweł Migdał, Martyna Cieślik, Norbert Łodej, Dominika Kula, Joanna Neuberg, Katarzyna Hodyra-Stefaniak, Marta Kaszowska, Filip Orwat, Natalia Bagińska, Anna Mucha, **Agnieszka Belter**, Mirosława Skupińska, Barbara Bubak, Wojciech Fortuna, Sławomir Letkiewicz, Paweł Chorbiński, Beata Weber-Dąbrowska, Adam Roman, Andrzej Górski, „Isolation and Characterization of Phages Active against *Paenibacillus larvae* Causing American Foulbrood in Honeybees in Poland”, *Viruses*, 13, art. nr 1217, 2021. [DOI:10.3390/v13071217](https://doi.org/10.3390/v13071217)
17. Urszula Kozłowska, Aleksandra Klimczak, Karolina Anna Bednarowicz, Tomasz Zalewski, Natalia Rozwadowska, **Katarzyna Chojnacka**, Stefan Jurga, Eytan R. Barnea, Maciej K. Kurpisz, „Assessment of Immunological Potential of Glial Restricted Progenitor Graft In Vivo—Is Immunosuppression Mandatory?”, *Cells*, 10, art. nr 1804, 2021. [DOI: 10.3390/cells10071804](https://doi.org/10.3390/cells10071804)
18. Wlodek Minor, **Mariusz Jaskólski**, Seamus J. Martin, Zbigniew Dauter, „Dr. Alexander Wlodawer—celebrating five decades of service to the structural biology community”, *FEBS Journal*, 288, 4160-4164, 2021. [DOI: 10.1111/febs.16064](https://doi.org/10.1111/febs.16064)
19. **Paweł Śledziński, Magdalena Dąbrowska, Mateusz Nowaczyk, Marta Olejniczak**, „Paving the way towards precise and safe CRISPR genome editing”, *Biotechnology Advances*, 49, art. nr 107737, 2021. [DOI: 10.1016/j.biotechadv.2021.107737](https://doi.org/10.1016/j.biotechadv.2021.107737)

20. **Karolina Świtońska-Kurkowska, Bart Krist, Joanna Maria Delimata, Maciej Figiel**, „Juvenile Huntington’s Disease and Other PolyQ diseases, Update on Neurodevelopmental Character and Comparative Bioinformatic Review of Transcriptomic Data”, *Frontiers in Cell and Developmental Biology*, 9, art. nr 642773, 2021. [DOI: 10.3389/fcell.2021.642773](https://doi.org/10.3389/fcell.2021.642773)
21. **Joanna Tracz, Magdalena Łuczak**, „Applying Proteomics and Integrative “Omics” Strategies to Decipher the Chronic Kidney Disease-Related Atherosclerosis”, *International Journal of Molecular Sciences*, 22, art. nr 7492, 2021. [DOI: 10.3390/ijms22147492](https://doi.org/10.3390/ijms22147492)
22. Anna F. Fusco, Logan A. Pucci, **Paweł M. Świtoński**, Debolina D. Biswas, Angela L. McCall, Amanda F. Kahn, Justin S. Dhindsa, Laura M. Strickland, Albert R. La Spada, Mai K. El Mallah, „Respiratory dysfunction in a mouse model of spinocerebellar ataxia type 7”, *Disease Models & Mechanisms*, 14, art. nr dmm048893, 2021. [DOI:10.1242/dmm.048893](https://doi.org/10.1242/dmm.048893)
23. Joanna I. Loch, **Mariusz Jaskólski**, „Structural and biophysical aspects of L-asparaginases: a growing family with amazing diversity”, *IUCrJ*, 8, 514-531, 2021. [DOI: 10.1107/S2052252521006011](https://doi.org/10.1107/S2052252521006011)
24. Bartosz Naskręcki, Zbigniew Dauter, **Mariusz Jaskólski**, „A topological proof of the modified Euler characteristic based on the orbifold concept”, *Acta Crystallographica Section A – Foundations and Advances*, 77, 317-326, 2021. [DOI: 10.1107/S2053273321004320](https://doi.org/10.1107/S2053273321004320)
25. Daniela Liśkiewicz, Arkadiusz Liśkiewicz, Mateusz Grabowski, Marta Maria Nowacka-Chmielewska, Konstancja Jabłońska, **Anna Wojakowska, Łukasz Marczak**, Jarosław J. Barski, Andrzej Mątecki, „Upregulation of hepatic autophagy under nutritional ketosis”, *Journal of Nutritional Biochemistry*, 93, art. nr 108620, 2021. [DOI: 10.1016/j.jnutbio.2021.108620](https://doi.org/10.1016/j.jnutbio.2021.108620)
26. **Kalina Wiatr, Łukasz Marczak**, Jean-Baptiste Pérot, Emmanuel Brouillet, Julien Flament, **Maciej Figiel**, „Broad Influence of Mutant Ataxin-3 on the Proteome of the Adult Brain, Young Neurons, and Axons Reveals Central Molecular Processes and Biomarkers in

SCA3/MJD Using Knock-In Mouse Model”, *Frontiers in Molecular Neuroscience*, 14, art. nr 658339, 2021. [DOI: 10.3389/fnmol.2021.658339](https://doi.org/10.3389/fnmol.2021.658339)

27. **Joanna Tracz, Luiza Handschuh, Maciej Lalowski, Łukasz Marczak**, Katarzyna Kostka-Jeziorny, Bartłomiej Perek, Maria Wanic-Kossowska, Alina Podkowińska, Andrzej Tykarski, Dorota Formanowicz, **Magdalena Łuczak**, „Proteomic Profiling of Leukocytes Reveals Dysregulation of Adhesion and Integrin Proteins in Chronic Kidney Disease-Related Atherosclerosis”, *Journal of Proteome Research*, 20, 3053-3067, 2021. [DOI: 10.1021/acs.jproteome.0c00883](https://doi.org/10.1021/acs.jproteome.0c00883)
28. **Marta Orlicka-Płocka, Agnieszka Fedoruk-Wyszomirska, Dorota Gurda-Woźna, Paweł Pawelczak**, Patrycja Krawczyk, **Małgorzata Giel-Pietraszuk, Grzegorz Framski, Tomasz Ostrowski, Eliza Wyszko**, „Implications of Oxidative Stress in Glioblastoma Multiforme Following Treatment with Purine Derivatives”, *Antioxidants*, 10, art. nr 950, 2021. [DOI: 10.3390/antiox10060950](https://doi.org/10.3390/antiox10060950)
29. **Dagmara Baraniak, Jerzy Boryski**, „Triazole-Modified Nucleic Acids for the Application in Bioorganic and Medicinal Chemistry”, *Biomedicines*, 9, art. nr 628, 2021. [DOI: 10.3390/biomedicines9060628](https://doi.org/10.3390/biomedicines9060628)
30. Piotr Duchnowicz, **Radosław Pilarski**, Jaromir Michałowicz, Bożena Bukowska, „Changes in Human Erythrocyte Membrane Exposed to Aqueous and Ethanolic Extracts from *Uncaria tomentosa*”, *Molecules*, 26, art. nr 3189, 2021. [DOI: 10.3390/molecules26113189](https://doi.org/10.3390/molecules26113189)
31. Antoine L. Harfouche, Vasiliki Petousi, Richard Meilan, Jeremy Sweet, **Tomasz Twardowski**, Arie Altman, „Promoting Ethically Responsible Use of Agricultural Biotechnology”, *Trends in Plant Science*, 26, 546-559, 2021. [DOI: 10.1016/j.tplants.2020.12.015](https://doi.org/10.1016/j.tplants.2020.12.015)
32. **Dagny Lorent, Rafał Nowak, Carolina Roxo, Elżbieta Lenartowicz, Aleksandra Makarewicz, Bartosz Zaremba**, Szymon Nowak, Łukasz Kuszel, Jerzy Stefaniak, **Ryszard Kierzek, Paweł Zmora**, „Prevalence of Anti-SARS-CoV-2 Antibodies in Poznań, Poland, after

- the First Wave of the COVID-19 Pandemic”, *Vaccines*, 9, art. nr 541, 2021. [DOI: 10.3390/vaccines9060541](https://doi.org/10.3390/vaccines9060541)
33. Marta Rybska, **Magdalena Woźna-Wysocka**, Barbara Wąsowska, Marek Skrzypski, Magdalena Kubiak, Beata Błaszak, Anna Łukomska, Tomasz Nowak, Jędrzej M. Jaśkowski, „Expression of Transforming Growth Factor Beta Isoforms in Canine Endometrium with Cystic Endometrial Hyperplasia–Pyometra Complex”, *Animals*, 11, art. nr 1844, 2021. [DOI: 10.3390/ani11061844](https://doi.org/10.3390/ani11061844)
34. Ryosuke Sugiyama, Rui Li, Ayuko Kuwahara, Ryo Nakabayashi, Naoyuki Sotta, Tetsuya Mori, Takehiro Ito, Naoko Ohkama-Ohtsu, Toru Fujiwara, Kazuki Saito, Ryohei Thomas Nakano, **Paweł Bednarek**, Masami Yokota Hirai, „Retrograde sulfur flow from glucosinolates to cysteine in *Arabidopsis thaliana*”, *Proceedings of the National Academy of Sciences of the United States of America*, 118, art. nr e2017890118, 2021. [DOI: 10.1073/pnas.2017890118](https://doi.org/10.1073/pnas.2017890118)
35. Kamila Romanowska, Agnieszka A. Rawłuszko-Wieczorek, **Łukasz Marczak**, Agnieszka Kosińska, Wiktoria M. Suchorska, Wojciech Golusiński, „The m6A RNA Modification Quantity and mRNA Expression Level of RNA Methylation-Related Genes in Head and Neck Squamous Cell Carcinoma Cell Lines and Patients”, *Biomolecules*, 11, art. nr 908, 2021. [DOI: 10.3390/biom11060908](https://doi.org/10.3390/biom11060908)
36. Thomas M. Winkel Müller, Frederickson Entila, Shajahan Anver, Anna Piasecka, Baoxing Song, Eik Dahms, Hitoshi Sakakibara, Xiangchao Gan, Karolina Kułak, Aneta Sawikowska, Paweł Krajewski, Miltos Tsiantis, Ruben Garrido-Oter, Kenji Fukushima, Paul Schulze-Lefert, Stefan Laurent, **Paweł Bednarek**, Kenichi Tsuda, „Gene expression evolution in pattern-triggered immunity within *Arabidopsis thaliana* and across Brassicaceae species”, *Plant Cell*, 33, 1863-1887, 2021. [DOI: 10.1093/plcell/koab073](https://doi.org/10.1093/plcell/koab073)
37. Marek Kazimierczyk, **Jan Wrzesiński**, „Long Non-Coding RNA Epigenetics”, *International Journal of Molecular Sciences*, 22, art. nr 6166, 2021. [DOI: 10.3390/ijms22116166](https://doi.org/10.3390/ijms22116166)

38. **Edyta Kościańska, Emilia Kozłowska, Agnieszka Fiszer**, „Regulatory Potential of Competing Endogenous RNAs in Myotonic Dystrophies”, *International Journal of Molecular Sciences*, 22, art. nr 6089, 2021. [DOI: 10.3390/ijms22116089](https://doi.org/10.3390/ijms22116089)
39. Vilbert Sikorski, Pasi Karjalainen, Daria Blokhina, Kati Oksaharju, Jahangir Khan, Shintaro Katayama, Helena Rajala, Satu Suihko, Suvi Tuohinen, Kari Teittinen, Annu Nummi, Antti Nykänen, Arda Eskin, Christoffer Stark, Fausto Biancari, Jan Kiss, Jarmo Simpanen, Jussi Ropponen, Karl Lemström, Kimmo Savinainen, **Maciej Lalowski**, Markku Kaarne, Mikko Jormalainen, Outi Elomaa, Pertti Koivisto, Peter Raivio, Pia Bäckströ, Sebastian Dahlbacka, Simo Syrjälä, Tiina Vainikka, Tommi Vähäsilta, Nurcan Tuncbag, Mati Karelson, Eero Mervaala, Tatu Juvonen, Mika Laine, Jari Laurikka, Antti Vento, Esko Kankuri, „Epitranscriptomics of Ischemic Heart Disease—The IHD-EPITRAN Study Design and Objectives”, *International Journal of Molecular Sciences*, 22, art. nr 6630, 2021. [DOI: 10.3390/ijms22126630](https://doi.org/10.3390/ijms22126630)
40. **Maria Tomaszewska, Marta Szabat, Karolina Zielińska, Ryszard Kierzek**, „Identification and Structural Aspects of G-Quadruplex-Forming Sequences from the Influenza A Virus Genome”, *International Journal of Molecular Sciences*, 22, art. nr 6031, 2021. [DOI: 10.3390/ijms22116031](https://doi.org/10.3390/ijms22116031)
41. **Marta Sikora**, Hieronim Jakubowski, „Changes in redox plasma proteome of Pon1<sup>-/-</sup> mice are exacerbated by a hyperhomocysteinemic diet”, *Free Radical Biology and Medicine*, 169, 169-180, 2021. [DOI: 10.1016/j.freeradbiomed.2021.03.042](https://doi.org/10.1016/j.freeradbiomed.2021.03.042)
42. **Paweł Drożdzał, Mirosław Gilski, Mariusz Jaskólski**, „Crystal structure of Z-DNA in complex with the polyamine putrescine and potassium cations at ultra-high resolution”, *Acta Crystallographica Section B – Structural Science, Crystal Engineering and Materials*, 77, 331-338, 2021. [DOI: 10.1107/S2052520621002663](https://doi.org/10.1107/S2052520621002663)
43. **Julian Zacharjasz, Anna M. Mleczko, Paweł Bąkowski, Tomasz Piontek, Kamilla Bąkowska-Żywicka**, „Small Noncoding RNAs in Knee Osteoarthritis: The Role of MicroRNAs and tRNA-Derived Fragments”, *International Journal of Molecular Sciences*, 22, art. nr 5711, 2021. [DOI: 10.3390/ijms22115711](https://doi.org/10.3390/ijms22115711)

44. Emilia Frydrych-Tomczak, **Tomasz Ratajczak**, Łukasz Kościński, Agnieszka Ranecka, Natalia Michalak, Tadeusz Luciński, Hieronim Maciejewski, Stefan Jurga, Mikołaj Lewandowski, **Marcin K. Chmielewski**, „Structure and Oligonucleotide Binding Efficiency of Differently Prepared Click Chemistry-Type DNA Microarray Slides Based on 3-Azidopropyltrimethoxysilane”, *Materials*, 14, art. nr 2855, 2021. [DOI: 10.3390/ma14112855](https://doi.org/10.3390/ma14112855)
45. Dorota Butkiewicz, Małgorzata Krześniak, Agnieszka Gdowicz-Kłosok, Monika Giglok, **Małgorzata Marszałek-Zeńczak**, Rafał Suwiński, „Polymorphisms in EGFR Gene Predict Clinical Outcome in Unresectable Non-Small Cell Lung Cancer Treated with Radiotherapy and Platinum-Based Chemoradiotherapy”, *International Journal of Molecular Sciences*, 22, art. nr 5605, 2021. [DOI: 10.3390/ijms22115605](https://doi.org/10.3390/ijms22115605)
46. **Magdalena Bejger**, Paulina Fortuna, Magda Drewniak-Świtalska, Jacek Plewka, **Wojciech Rypniewski**, Łukasz Berlicki, „A computationally designed  $\beta$ -amino acid-containing miniprotein”, *Chemical Communications*, 57, 6015-6018, 2021. [DOI: 10.1039/d1cc02192c](https://doi.org/10.1039/d1cc02192c)
47. Sara Blicharz, Gerrit T.S. Beemster, Laura Ragni, Nuria De Diego, Lukas Spíchal, Alba E. Hernández, **Łukasz Marczak**, Marcin Olszak, Dawid Perlikowski, Arkadiusz Kosmala, Robert Malinowski, „Phloem exudate metabolic content reflects the response to water-deficit stress in pea plants (*Pisum sativum* L.)”, *Plant Journal*, 106, 1338-1355, 2021. [DOI: 10.1111/tpj.15240](https://doi.org/10.1111/tpj.15240)
48. **Joanna Miśkiewicz**, **Joanna Sarzyńska**, **Marta Szachniuk**, „How bioinformatics resources work with G4 RNAs”, *Briefings in Bioinformatics*, 22, art. nr bbaa201, 2021. [DOI:10.1093/bib/bbaa201](https://doi.org/10.1093/bib/bbaa201)
49. Henning Frerigmann, Markus Piotrowski, René Lemke, **Paweł Bednarek**, Paul Schulze-Lefert, „A Network of Phosphate Starvation and Immune-Related Signaling and Metabolic Pathways Controls the Interaction between *Arabidopsis thaliana* and the Beneficial Fungus *Colletotrichum tofieldiae*”, *Molecular Plant – Microbe Interactions*, 34, 560-570, [DOI: 10.1094/MPMI-08-20-0233-R](https://doi.org/10.1094/MPMI-08-20-0233-R)



50. Aleksandra Majchrzak-Celińska, **Julia O. Misiorek**, Nastassia Kruhlenia, **Łukasz Przybył**, Robert Kleszcz, **Katarzyna Rolle**, Violetta Krajka-Kuźniak, „COXIBs and 2,5-dimethylcelecoxib counteract the hyperactivated Wnt/ $\beta$ -catenin pathway and COX-2/PGE2/EP4 signaling in glioblastoma cells”, *BMC Cancer*, 21, art. nr 493, 2021. [DOI: 10.1186/s12885-021-08164-1](https://doi.org/10.1186/s12885-021-08164-1)
51. **Wojciech Witek**, **Joanna Śliwiak**, **Miłosz Ruszkowski**, „Structural and mechanistic insights into the bifunctional HSN2 enzyme catalyzing the second and third steps of histidine biosynthesis in plants”, *Scientific Reports*, 11, art. nr 9647, 2021. [DOI:10.1038/s41598-021-88920-2](https://doi.org/10.1038/s41598-021-88920-2)
52. **Łukasz Marczak**, **Jakub Idkowiak**, **Joanna Tracz**, **Maciej Stobiecki**, Bartłomiej Perek, Katarzyna Kostka-Jeziorny, Andrzej Tykarski, Maria Wanic-Kossowska, Marcin Borowski, **Marcin Osuch**, Dorota Formanowicz, **Magdalena Łuczak**, „Mass Spectrometry-Based Lipidomics Reveals Differential Changes in the Accumulated Lipid Classes in Chronic Kidney Disease”, *Metabolites*, 11, art. nr 275, 2021. [DOI: 10.3390/metabo11050275](https://doi.org/10.3390/metabo11050275)
53. Satenik Mkrtchyan, **Michał Jakubczyk**, Suneel Lanka, Michael Pittelkow, Viktor O. Iaroshenko, „Cu-Catalyzed Arylation of Bromo-Difluoro-Acetamides by Aryl Boronic Acids, Aryl Trialkoxysilanes and Dimethyl-Aryl-Sulfonium Salts: New Entries to Aromatic Amides”, *Molecules*, 26, art. nr 2957, 2021. [DOI: 10.3390/molecules26102957](https://doi.org/10.3390/molecules26102957)
54. **Carolina Roxo**, **Weronika Kotkowiak**, **Anna Pasternak**, „G4 Matters—The Influence of G-Quadruplex Structural Elements on the Antiproliferative Properties of G-Rich Oligonucleotides”, *International Journal of Molecular Sciences*, 22, art. nr 4941, 2021. [DOI: 10.3390/ijms22094941](https://doi.org/10.3390/ijms22094941)
55. Piotr Maj, Adam Jarmuła, Piotr Wilk, Małgorzata Prokopowicz, **Wojciech Rypniewski**, Zbigniew Zieliński, Anna Dowierciał, Agnieszka Bzowska, Wojciech Rode, „Molecular Mechanism of Thymidylate Synthase Inhibition by N<sup>4</sup>-Hydroxy-dCMP in View of Spectrophotometric and Crystallographic Studies”, *International Journal of Molecular Sciences*, 22, art. nr 4758, 2021. [DOI: 10.3390/ijms22094758](https://doi.org/10.3390/ijms22094758)

56. Agnieszka Szuba, **Łukasz Marczak**, Rafał Kozłowski, „Pb Stress and Ectomycorrhizas: Strong Protective Proteomic Responses in Poplar Roots Inoculated with *Paxillus involutus* Isolate and Characterized by Low Root Colonization Intensity”, *International Journal of Molecular Sciences*, 22, art. nr 4300, 2021. [DOI: 10.3390/ijms22094300](https://doi.org/10.3390/ijms22094300)
57. Marek Grabowski, Joanna M. Macnar, Marcin Cymborowski, David R. Cooper, Ivan G. Shabalín, **Mirosław Gilski**, **Dariusz Brzeziński**, Marcin Kowiel, Zbigniew Dauter, Bernhard Rupp, Alexander Wlodawer, **Mariusz Jaskólski**, Wlodek Minor, „Rapid response to emerging biomedical challenges and threats”, *IUCrJ*, 8, 395-407, 2021. [DOI: 10.1107/S2052252521003018](https://doi.org/10.1107/S2052252521003018)
58. **Magdalena Woźna-Wysocka**, Marta Rybska, Beata Błaszczak, Bartłomiej M. Jaśkowski, Magdalena Kulus, Jędrzej M. Jaśkowski, „Morphological changes in bitches endometrium affected by cystic endometrial hyperplasia - pyometra complex – the value of histopathological examination”, *BMC Veterinary Research*, 17, art. nr 174, 2021. [DOI: 10.1186/s12917-021-02875-0](https://doi.org/10.1186/s12917-021-02875-0)
59. Nicoletta Makowska, Katarzyna Bresa, Ryszard Koczura, **Anna Philips**, **Katarzyna Nowis**, Joanna Mokracka, „Urban wastewater as a conduit for pathogenic Gram-positive bacteria and genes encoding resistance to  $\beta$ -lactams and glycopeptides”, *Science of the Total Environment*, 765, art. nr 144176, 2021. [DOI: 10.1016/j.scitotenv.2020.144176](https://doi.org/10.1016/j.scitotenv.2020.144176)
60. **Marta Pastorczyk-Szlenkier**, **Paweł Bednarek**, „UGT76B1 controls the growth-immunity trade-off during systemic acquired resistance”, *Molecular Plant*, 14, 544-546, 2021. [DOI: 10.1016/j.molp.2021.03.012](https://doi.org/10.1016/j.molp.2021.03.012)
61. Przemysław Makarowicz, Tomasz Goslar, Jacek Górski, Halina Taras, Anita Szczepanek, Łukasz Pospieszny, Marina O. Jagodinska, Vasyl Ilchyshyn, Piotr Włodarczak, Anna Juras, Maciej Chyleński, Przemysław Muzolf, Anna Lasota-Kuś, Irena Wójcik, Andrzej Matoga, Marek Nowak, Marcin M. Przybyła, **Małgorzata Marcinkowska-Swojak**, **Marek Figlerowicz**, Ryszard Grygiel, Janusz Czebreszuk, Igor T. Kochkin, „The Absolute Chronology

of Collective Burials from the 2nd Millenium BC in East Central Europe”, *Radiocarbon*, 63, 669-692, 2021. [DOI: 10.1017/RDC.2020.139](https://doi.org/10.1017/RDC.2020.139)

62. Paweł Bąkowski, Kinga Ciemniewska-Gorzela, **Kamilla Bąkowska-Żywicka**, Łukasz Stołowski, Tomasz Piontek, „Similar Outcomes and Satisfaction of the Proprioceptive versus Standard Training on the Knee Function and Proprioception, Following the Anterior Cruciate Ligament Reconstruction”, *Applied Sciences*, 11, art. nr 3494, 2021. [DOI: 10.3390/app11083494](https://doi.org/10.3390/app11083494)

63. **Aneta Sawikowska**, Anna Piasecka, Piotr Kachlicki, Paweł Krajewski, „Separation of Chromatographic Co-Eluted Compounds by Clustering and by Functional Data Analysis”, *Metabolites*, 11, art. nr 214, 2021. [DOI: 10.3390/metabo11040214](https://doi.org/10.3390/metabo11040214)

64. Tomasz Koczorowski, Wojciech Szczolko, **Anna Teubert**, Tomasz Gośliński, „Sulfanyl Porphyrazines with Morpholinylethyl Periphery—Synthesis, Electrochemistry, and Photocatalytic Studies after Deposition on Titanium(IV) Oxide P25 Nanoparticles”, *Molecules*, 26, art. nr 2280, 2021. [DOI: 10.3390/molecules26082280](https://doi.org/10.3390/molecules26082280)

65. Katarzyna Zaorska, **Piotr Zawierucha**, Monika Świerczewska, Danuta Ostalska-Nowicka, Jacek Zachwieja, Michał Nowicki, „Prediction of steroid resistance and steroid dependence in nephrotic syndrome children”, *Journal of Translational Medicine*, 19, art. nr 130, 2021. [DOI: 10.1186/s12967-021-02790-w](https://doi.org/10.1186/s12967-021-02790-w)

66. Emily Golden, Rabab Rashwan, Eleanor A. Woodward, Agustin Sgro, Edina Wang, Anabel Sorolla, Charlene Waryah, Wan Jun Tie, Elisabet Cuyàs, **Magdalena Ratajska**, Iwona Kardaś, **Piotr Kozłowski**, Elizabeth K. M. Johnstone, Heng B. See, Ciara Duffy, Jeremy Parry, Kim A. Lagerborg, Piotr Czapiewski, Javier A. Menendez, Adam Gorczyński, Bartosz Wasag, Kevin D. G. Pflieger, Christina Curtis, Bum-Kyu Lee, Jonghwan Kim, Joseph Cursons, Nathan J. Pavlos, Wojciech Biernat, Mohit Jain, Andrew J. Woo, Andrew Redfern, Pilar Blancafort, „The oncogene *AAMDC* links PI3K-AKT-mTOR signaling with metabolic reprogramming in estrogen receptor-positive breast cancer”, *Nature Communications*, 12, art. nr 1920, 2021. [DOI: 10.1038/s41467-021-22101-7](https://doi.org/10.1038/s41467-021-22101-7)

67. Alfredo Aguilar, Roland Wohlgemuth, **Tomasz Twardowski**, „Introduction to the special issue: Trends in bioeconomy”, *New Biotechnology*, 61, 9-10, 2021. [DOI: 10.1016/j.nbt.2020.11.002](https://doi.org/10.1016/j.nbt.2020.11.002)
68. Roland Wohlgemuth, **Tomasz Twardowski**, Alfredo Aguilar, „Bioeconomy moving forward step by step – A global journey”, *New Biotechnology*, 61, 22-28, 2021. [DOI: 10.1016/j.nbt.2020.11.006](https://doi.org/10.1016/j.nbt.2020.11.006)
69. **Karolina Jarzyniak, Joanna Banasiak, Tomasz Jamruszka, Aleksandra Pawela**, Martin Di Donato, Ondřej Novák, Markus Geisler, **Michał Jasiński**, „Early stages of legume–rhizobia symbiosis are controlled by ABCG-mediated transport of active cytokinins”, *Nature Plants*, 7, 428-436, 2021. [DOI: 10.1038/s41477-021-00873-6](https://doi.org/10.1038/s41477-021-00873-6)
70. **Angelika Andrzejewska, Małgorzata Zawadzka, Julita Gumna**, David J Garfinkel, **Katarzyna Pachulska-Wieczorek**, „*In vivo* structure of the Ty1 retrotransposon RNA genome”, *Nucleic Acids Research*, 49, 2878-2893, 2021. [DOI: 10.1093/nar/gkab090](https://doi.org/10.1093/nar/gkab090)
71. **Natalia Koralewska, Agnieszka Szczepańska, Kinga Ciechanowska, Marta Wojnicka, Maria Pokornowska, Marek C. Milewski, Dorota Gudanis, Daniel Baranowski**, Chandran Nithin, Janusz M. Bujnicki, **Zofia Gdaniec, Marek Figlerowicz, Anna Kurzyńska-Kokorniak**, „RNA and DNA G-quadruplexes bind to human Dicer and inhibit its activity”, *Cellular and Molecular Life Sciences*, 78, 3709-3724, 2021. [DOI: 10.1007/s00018-021-03795-w](https://doi.org/10.1007/s00018-021-03795-w)
72. **Paulina Bierwagen, Joanna Śliwiak, Mariusz Jaskólski, Anna Urbanowicz**, „Strong interactions between Salp15 homologues from the tick *I. ricinus* and distinct types of the outer surface OspC protein from *Borrelia*”, *Ticks and Tick-borne Diseases*, 12, art. nr 101630, 2021. [DOI: 10.1016/j.ttbdis.2020.101630](https://doi.org/10.1016/j.ttbdis.2020.101630)
73. **Aleksander Strugała, Jakub Jagielski, Karol Kamel, Grzegorz Nowaczyk, Marcin Radom, Marek Figlerowicz, Anna Urbanowicz**, „Virus-Like Particles Produced Using the Brome Mosaic Virus Recombinant Capsid Protein Expressed in a Bacterial System”, *International Journal of Molecular Sciences*, 22, art. nr 3098, 2021. [DOI: 10.3390/ijms22063098](https://doi.org/10.3390/ijms22063098)

74. **Paula Michalak, Julita Piasecka, Barbara Szutkowska, Ryszard Kierzek, Ewa Biała**, Walter N. Moss, **Elżbieta Kierzek**, „Conserved Structural Motifs of Two Distant IAV Subtypes in Genomic Segment 5 RNA”, *Viruses*, 13, art. nr 525, 2021. [DOI: 10.3390/v13030525](https://doi.org/10.3390/v13030525)
75. Beata P. Plitta-Michalak, **Mirosława Z. Naskręt-Barciszewska, Jan Barciszewski**, Paweł Chmielarz, Marcin Michalak, „Epigenetic Integrity of Orthodox Seeds Stored under Conventional and Cryogenic Conditions”, *Forests*, 12, art. nr 288, 2021. [DOI: 10.3390/f12030288](https://doi.org/10.3390/f12030288)
76. Marta Ignasiak, Karolina Nowicka-Bauer, **Marta Grzechowiak, Michał Sikorski**, Bachuki Shashikadze, **Mariusz Jaskólski**, Bronisław Marciniak, „Sensitized photo-oxidation of plant cytokinin-specific binding protein - Does the environment of the thioether group influence the oxidation reaction? From primary intermediates to stable products”, *Free Radical Biology and Medicine*, 165, 411-420, 2021. [DOI: 10.1016/j.freeradbiomed.2021.02.004](https://doi.org/10.1016/j.freeradbiomed.2021.02.004)
77. **Marta Rachwalak, Joanna Romanowska, Michał Sobkowski, Jacek Stawiński**, „Nucleoside Di- and Triphosphates as a New Generation of Anti-HIV Pronucleotides. Chemical and Biological Aspects”, *Applied Sciences*, 11, art. nr 2248, 2021. [DOI: 10.3390/app11052248](https://doi.org/10.3390/app11052248)
78. Sebastian Rykowski, **Dorota Gurda-Woźna, Marta Orlicka-Płocka, Agnieszka Fedoruk-Wyszomirska, Małgorzata Giel-Pietraszuk, Eliza Wyszko**, Aleksandra Kowalczyk, Paweł Stączek, Andrzej Bak, **Agnieszka Kiliszek, Wojciech Rypniewski**, Agnieszka B. Olejniczak, „Design, Synthesis, and Evaluation of Novel 3-Carboranyl-1,8-Naphthalimide Derivatives as Potential Anticancer Agents”, *International Journal of Molecular Sciences*, 22, art. nr 2772, 2021. [DOI: 10.3390/ijms22052772](https://doi.org/10.3390/ijms22052772)
79. **Mariusz Jaskólski**, Zbigniew Dauter, Ivan G. Shabalin, **Mirosław Gilski, Dariusz Brzeziński, Marcin Kowiel**, Bernhard Rupp, Alexander Wlodawer, „Crystallographic models of SARS-CoV-2 3CL<sup>pro</sup>: in-depth assessment of structure quality and validation”, *IUCr*, 8, 238-256, 2021. [DOI: 10.1107/S2052252521001159](https://doi.org/10.1107/S2052252521001159)

80. Bartosz Naskręcki, Zbigniew Dauter, **Mariusz Jaskólski**, „Arithmetic proof of the multiplicity-weighted Euler characteristic for symmetrically arranged space-filling polyhedra”, *Acta Crystallographica A – Foundation and Advances*, 77, 126-129, 2021. [DOI: 10.1107/S2053273320016186](https://doi.org/10.1107/S2053273320016186)
81. Ewa Woźniak, Agata Tyczewska, Tomasz Twardowski, „A Shift Towards Biotechnology: Social Opinion in the EU”, *Trends in Biotechnology*, 39, 214-218, 2021. [DOI: 10.1016/j.tibtech.2020.08.001](https://doi.org/10.1016/j.tibtech.2020.08.001)
82. Joanna Kołodziejczyk-Czepas, Michał Ponczek, Magdalena Sady-Janczak, **Radosław Pilarski**, Bożena Bukowska, „Extracts from *Uncaria tomentosa* as antiplatelet agents and thrombin inhibitors – The *in vitro* and *in silico* study”, *Journal of Ethnopharmacology*, 267, art. nr 113494, 2021. [DOI: 10.1016/j.jep.2020.113494](https://doi.org/10.1016/j.jep.2020.113494)
83. Venkata N. K. B. Adusumalli, Lucyna Mrówczyńska, **Dorota Kwiatek**, Łukasz Piosik, Andrzej Lesicki, Stefan Lis, „Ligand-Sensitised LaF<sub>3</sub>:Eu<sup>3+</sup> and SrF<sub>2</sub>:Eu<sup>3+</sup> Nanoparticles and *in Vitro* Haemocompatibility Studies”, *ChemMedChem*, 16, 1640-1650, 2021. [DOI: 10.1002/cmdc.202100028](https://doi.org/10.1002/cmdc.202100028)
84. Arkadiusz D. Liśkiewicz, **Łukasz Marczak**, Katarzyna Bogus, Daniela Liśkiewicz, Marta Przybyła, Joanna Lewin-Kowalik, „Proteomic and Structural Manifestations of Cardiomyopathy in Rat Models of Obesity and Weight Loss”, *Frontiers in Endocrinology*, 12, art. nr 568197, 2021. [DOI: 10.3389/fendo.2021.568197](https://doi.org/10.3389/fendo.2021.568197)
85. Marek Grabowski, David R. Cooper, **Dariusz Brzeziński**, Joanna M. Macnar, Ivan G. Shabalin, Marcin Cymborowski, Zbyszek Otwinowski, Wlodek Minor, „Synchrotron radiation as a tool for macromolecular X-Ray Crystallography: A XXI century perspective”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 489, 30-40, 2021. [DOI: 10.1016/j.nimb.2020.12.016](https://doi.org/10.1016/j.nimb.2020.12.016)
86. Joanna Nowak-Karnowska, **Karolina Zielińska**, Jan Milecki, Bohdan Skalski, „Thermally reversible and irreversible interstrand photocrosslinking of 5-chloro-2'-deoxy-4-

thiouridine modified DNA oligonucleotides”, *Organic & Biomolecular Chemistry*, 19, 1292-1295, 2021. [DOI: 10.1039/d0ob02422h](https://doi.org/10.1039/d0ob02422h)

87. Monika Pietrowska, Aneta Zebrowska, Marta Gawin, **Łukasz Marczak**, Priyanka Sharma, Sujan Mondal, Justyna Mika, Joanna Polańska, Soldano Ferrone, John M. Kirkwood, Piotr Widlak, Theresa L. Whiteside, „Proteomic profile of melanoma cell-derived small extracellular vesicles in patients’ plasma: a potential correlate of melanoma progression”, *Journal of Extracellular Vesicles*, 10, art. nr e12063, 2021. [DOI: 10.1002/jev2.12063](https://doi.org/10.1002/jev2.12063)
88. Taavi Vanaveski, Svetlana Molchanova, Dan Duc Pham, Annika Schäfer, Ceren Pajanoja, Jane Narvik, Vignesh Srinivasan, Mari Urb, Maria Koivisto, Eero Vasar, Tönis Timmusk, Rimante Minkeviciene, Ove Eriksson, **Maciej Lalowski**, Tomi Taira, Laura Korhonen, Vootele Voikar, Dan Lindholm, „PGC-1 $\alpha$  Signaling Increases GABA(A) Receptor Subunit  $\alpha$ 2 Expression, GABAergic Neurotransmission and Anxiety-Like Behavior in Mice”, *Frontiers in Molecular Neuroscience*, 14, art. nr 588230, 2021. [DOI: 10.3389/fnmol.2021.588230](https://doi.org/10.3389/fnmol.2021.588230)
89. **Łukasz Przybył**, **Magdalena Woźna-Wysocka**, **Emilia Kozłowska**, **Agnieszka Fiszer**, „What, When and How to Measure—Peripheral Biomarkers in Therapy of Huntington’s Disease”, *International Journal of Molecular Sciences*, 22, art. nr 1561, 2021. [DOI: 10.3390/ijms22041561](https://doi.org/10.3390/ijms22041561)
90. **Agnieszka Ruskowska**, „METTL16, Methyltransferase-Like Protein 16: Current Insights into Structure and Function”, *International Journal of Molecular Sciences*, 22, art. nr 2176, 2021. [DOI: 10.3390/ijms22042176](https://doi.org/10.3390/ijms22042176)
91. **Agata Tyczewska**, **Joanna Gracz-Bernaciak**, **Jakub Szymkowiak**, **Tomasz Twardowski**, „Herbicide stress-induced DNA methylation changes in two *Zea mays* inbred lines differing in Roundup® resistance”, *Journal of Applied Genetics*, 62, 235-248, 2021. [DOI: 10.1007/s13353-021-00609-4](https://doi.org/10.1007/s13353-021-00609-4)
92. **Ewa Woźniak**, **Agata Tyczewska**, **Tomasz Twardowski**, „Bioeconomy development factors in the European Union and Poland”, *New Biotechnology*, 60, 2-8, 2021. [DOI: 10.1016/j.nbt.2020.07.004](https://doi.org/10.1016/j.nbt.2020.07.004)

93. **Paulina Gałka-Marciniak, Martyna Olga Urbanek-Trzeciak, Paulina Maria Nawrocka, Piotr Kozłowski**, „A pan-cancer atlas of somatic mutations in miRNA biogenesis genes”, *Nucleic Acids Research*, 49, 601–620, 2021. [DOI: 10.1093/nar/gkaa1223](https://doi.org/10.1093/nar/gkaa1223)
94. Sławomir Sowa, **Tomasz Twardowski, Ewa Woźniak**, Tomasz Zimny, „Legal and practical challenges to authorization of gene edited plants in the EU”, *New Biotechnology*, 60, 183-188, 2021. [DOI: 10.1016/j.nbt.2020.10.008](https://doi.org/10.1016/j.nbt.2020.10.008)
95. Alicja E. Grzegorzewska, Adrianna Mostowska, Monika K. Świdorska, Wojciech Marcinkowski, **Ireneusz Stolarek, Marek Figlerowicz**, Paweł P. Jagodziński, „Polymorphism rs368234815 of interferon lambda 4 gene and spontaneous clearance of hepatitis C virus in haemodialysis patients: a case-control study”, *BMC Infectious Diseases*, 21, art. nr 102, 2021. [DOI: 10.1186/s12879-021-05777-6](https://doi.org/10.1186/s12879-021-05777-6)
96. Sylwester Swat, Artur Laskowski, Jan Badura, Wojciech Frohmberg, Paweł Wojciechowski, Aleksandra Świercz, **Marta Kasprzak, Jacek Błażewicz**, „Genome-scale *de novo* assembly using ALGA”, *Bioinformatics*, art. nr btab005, 2021. [DOI:10.1093/bioinformatics/btab005](https://doi.org/10.1093/bioinformatics/btab005)
97. Krzysztof Drygalski, Katarzyna Siewko, Andrzej Chomentowski, **Cezary Odrzygóźdź**, Anna Zalewska, Adam Krętowski, Mateusz Maciejczyk, „Phloroglucinol Strengthens the Antioxidant Barrier and Reduces Oxidative/Nitrosative Stress in Nonalcoholic Fatty Liver Disease (NAFLD)”, *Oxidative Medicine and Cellular Longevity*, 2021, art. nr 8872702, 2021. [DOI: 10.1155/2021/8872702](https://doi.org/10.1155/2021/8872702)
98. Ayumi Kosaka, Marta Pastorczyk, **Mariola Piślewska-Bednarek**, Takumi Nishiuchi, Erika Ono, Haruka Suemoto, Atsushi Ishikawa, Henning Frerigmann, Masanori Kaido, Kazuyuki Mise, **Paweł Bednarek**, Yoshitaka Takano, „Tryptophan-derived metabolites and BAK1 separately contribute to *Arabidopsis* postinvasive immunity against *Alternaria brassicicola*”, *Scientific Reports*, 11, art. nr 1488, 2021. [DOI: 10.1038/s41598-020-79562-x](https://doi.org/10.1038/s41598-020-79562-x)



99. Andrii Pyrih, **Mariusz Jaskólski**, Andrzej K. Gzella, Roman Lesyk, „Synthesis, structure and evaluation of anticancer activity of 4-amino-1,3-thiazolinone/pyrazoline hybrids”, *Journal of Molecular Structure*, 1224, art. nr 129059, 2021. [DOI: 10.1016/j.molstruc.2020.129059](https://doi.org/10.1016/j.molstruc.2020.129059)
100. Anna Parus, Jan Homa, Dariusz Radoński, **Grzegorz Framski**, Marta Woźniak-Karczewska, Anna Syguda, Łukasz Ławniczak, Łukasz Chrzanowski, „Novel esterquat-based herbicidal ionic liquids incorporating MCPA and MCPP for simultaneous stimulation of maize growth and fighting cornflower”, *Ecotoxicology and Environmental Safety*, 208, art. nr 111595, 2021. [DOI: 10.1016/j.ecoenv.2020.111595](https://doi.org/10.1016/j.ecoenv.2020.111595)
101. Yanwu Guo, Cristina Tocchini, **Rafał Ciosk**, „CLK-2/TEL2 is a conserved component of the nonsense-mediated mRNA decay pathway”, *PLoS One*, 16, art. nr e0244505, 2021. [DOI: 10.1371/journal.pone.0244505](https://doi.org/10.1371/journal.pone.0244505)
102. **Joanna Tracz**, **Luiza Handschuh**, **Maciej Lalowski**, **Łukasz Marczak**, Katarzyna Kostka-Jeziorny, Bartłomiej Perek, Maria Wanic-Kossowska, Alina Podkowińska, Andrzej Tykarski, Dorota Formanowicz, **Magdalena Łuczak**, „Proteomic Profiling of Leukocytes Reveals Dysregulation of Adhesion and Integrin Proteins in Chronic Kidney Disease-Related Atherosclerosis”, *Journal of Proteome Research*, 20, 3053-3067, 2021. [DOI:10.1021/acs.jproteome.0c00883](https://doi.org/10.1021/acs.jproteome.0c00883)
103. **Mariusz Jaskólski**, Alexander Wlodawer, Zbigniew Dauter, Ivan Shabalina, Maksymilian Chruszcz, „Celebrating the 75th birthday of Professor Wladek Minor, one of the most accomplished Polish-American structural biologists”, *Acta Biochimica Polonica*, 68, 1-4, 2021. [DOI: 10.18388/abp.2020\\_5539](https://doi.org/10.18388/abp.2020_5539)
104. **Jakub Barciszewski**, **Kamil Szpotkowski**, Janusz Wiśniewski, Robert Kołodziejczyk, Dariusz Rakus, **Mariusz Jaskólski**, „Structural studies of human muscle FBPase”, *Acta Biochimica Polonica*, 68, 5-14, 2021. [DOI: 10.18388/abp.2020\\_5554](https://doi.org/10.18388/abp.2020_5554)
105. **Marta Grzechowiak**, Bartosz Sekuła, **Mariusz Jaskólski**, **Miłosz Ruszkowski**, „Serendipitous crystallization of E. coli HPII catalase, a sequel to the tale usually not told”, *Acta Biochimica Polonica*, 68, 29-31, 2021. [DOI: 10.18388/abp.2020\\_5501](https://doi.org/10.18388/abp.2020_5501)

106. **Eliza Wyszko, Mariusz Popenda, Dorota Gudanis, Joanna Sarzyńska, Agnieszka Belter, Patrick Perrigue, Paweł Skowronek, Katarzyna Rolle, Jan Barciszewski**, „The model structure of the hammerhead ribozyme formed by RNAs of reciprocal chirality”, *Bioscience Reports*, 41, art. nr BSR20203424, 2021. [DOI: 10.1042/BSR20203424](https://doi.org/10.1042/BSR20203424)
107. A. Nowak-Terpiłowska, J. Zeyland, „Impact of cell harvesting methods on detection of cell surface proteins and apoptotic markers”, *Brazilian Journal of Medical and Biological Research*, 54, art. nr e10197, 2021. [DOI: 10.1590/1414-431X202010197](https://doi.org/10.1590/1414-431X202010197)
108. Julia O. Misiorek, Alicja Przybyszewska-Podstawka, Joanna Kałafut, Beata Paziewska, **Katarzyna Rolle**, Adolfo Rivero-Müller, Matthias Nees, „Context Matters: NOTCH Signatures and Pathway in Cancer Progression and Metastasis”, *Cells*, 10, art. nr 94, 2021. [DOI: 10.3390/cells10010094](https://doi.org/10.3390/cells10010094)
109. **Kinga Ciechanowska, Maria Pokornowska, Anna Kurzyńska-Kokorniak**, „Genetic Insight into the Domain Structure and Functions of Dicer-Type Ribonucleases”, *International Journal of Molecular Sciences*, 22, art. nr 616, 2021. [DOI: 10.3390/ijms22020616](https://doi.org/10.3390/ijms22020616)
110. Louisa Lepkes, Mohamad Kayali, Britta Blümcke, Jonas Weber, **Malwina Suszyńska**, Sandra Schmidt, Julika Borde, **Katarzyna Klonowska**, Barbara Wappenschmidt, Jan Hauke, **Piotr Kozłowski**, Rita K. Schmutzler, Eric Hahnen, Corinna Ernst, „Performance of In Silico Prediction Tools for the Detection of Germline Copy Number Variations in Cancer Predisposition Genes in 4208 Female Index Patients with Familial Breast and Ovarian Cancer”, *Cancers*, 13, art. nr 118, 2021. [DOI: 10.3390/cancers13010118](https://doi.org/10.3390/cancers13010118)
111. **Paweł Czerniawski, Anna Piasecka, Paweł Bednarek**, „Evolutionary changes in the glucosinolate biosynthetic capacity in species representing *Capsella*, *Camelina* and *Neslia* genera”, *Phytochemistry*, 181, art. nr 112571, 2021. [DOI: 10.1016/j.phytochem.2020.112571](https://doi.org/10.1016/j.phytochem.2020.112571)

112. **Paweł Śledziński**, Agnieszka Nowak-Terpiłowska, Joanna Zeyland, „Cannabinoids in Medicine: Cancer, Immunity, and Microbial Diseases”, *International Journal of Molecular Sciences*, 22, art. nr 263, 2021. [DOI: 10.3390/ijms22010263](https://doi.org/10.3390/ijms22010263)