

# Zbynek Bozdech

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7099876/publications.pdf>

Version: 2024-02-01

74  
papers

9,214  
citations

71102

41  
h-index

76900

74  
g-index

91  
all docs

91  
docs citations

91  
times ranked

7345  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Spread of Artemisinin Resistance in <i>Plasmodium falciparum</i> Malaria. <i>New England Journal of Medicine</i> , 2014, 371, 411-423.   | 27.0 | 1,753     |
| 2  | The Transcriptome of the Intraerythrocytic Developmental Cycle of <i>Plasmodium falciparum</i> . <i>PLoS Biology</i> , 2003, 1, e5.  | 5.6  | 1,433     |
| 3  | Population transcriptomics of human malaria parasites reveals the mechanism of artemisinin resistance. <i>Science</i> , 2015, 347, 431-435.  | 12.6 | 362       |
| 4  | Expression profiling of the schizont and trophozoite stages of <i>Plasmodium falciparum</i> with a long-oligonucleotide microarray. <i>Genome Biology</i> , 2003, 4, R9.   | 9.6  | 317       |
| 5  | Comparative whole genome transcriptome analysis of three <i>Plasmodium falciparum</i> strains. <i>Nucleic Acids Research</i> , 2006, 34, 1166-1173.  | 14.5 | 289       |
| 6  | A Role for the Protease Falcipain 1 in Host Cell Invasion by the Human Malaria Parasite. <i>Science</i> , 2002, 298, 2002-2006.  | 12.6 | 265       |
| 7  | Targeting the Cell Stress Response of <i>Plasmodium falciparum</i> to Overcome Artemisinin Resistance. <i>PLoS Biology</i> , 2015, 13, e1002132.   | 5.6  | 254       |
| 8  | <i>Plasmodium falciparum</i> Heterochromatin Protein 1 Marks Genomic Loci Linked to Phenotypic Variation of Exported Virulence Factors. <i>PLoS Pathogens</i> , 2009, 5, e1000569.   | 4.7  | 243       |
| 9  | The transcriptome of <i>Plasmodium vivax</i> reveals divergence and diversity of transcriptional regulation in malaria parasites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16290-16295. | 7.1  | 234       |
| 10 | Heterochromatin Protein 1 Secures Survival and Transmission of Malaria Parasites. <i>Cell Host and Microbe</i> , 2014, 16, 165-176.  | 11.0 | 225       |
| 11 | Transcriptional profiling of growth perturbations of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nature Biotechnology</i> , 2010, 28, 91-98.  | 17.5 | 196       |
| 12 | Transcriptional variation in the malaria parasite <i>Plasmodium falciparum</i> . <i>Genome Research</i> , 2012, 22, 925-938.   | 5.5  | 194       |
| 13 | A subset of group A-like <i>var</i> genes encodes the malaria parasite ligands for binding to human brain endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1772-81.         | 7.1  | 183       |
| 14 | Declining Efficacy of Artemisinin Combination Therapy Against <i>P. falciparum</i> Malaria on the Thai-Myanmar Border (2003-2013): The Role of Parasite Genetic Factors. <i>Clinical Infectious Diseases</i> , 2016, 63, 784-791.                  | 5.8  | 178       |
| 15 | Identifying purine nucleoside phosphorylase as the target of quinine using cellular thermal shift assay. <i>Science Translational Medicine</i> , 2019, 11, .   | 12.4 | 153       |
| 16 | A Major Role for the <i>Plasmodium falciparum</i> ApiAP2 Protein PfSIP2 in Chromosome End Biology. <i>PLoS Pathogens</i> , 2010, 6, e1000784.  | 4.7  | 150       |
| 17 | Quantitative Time-course Profiling of Parasite and Host Cell Proteins in the Human Malaria Parasite <i>Plasmodium falciparum</i> . <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.006411.   | 3.8  | 145       |
| 18 | Genome-wide identification of genes upregulated at the onset of gametocytogenesis in <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 2005, 143, 100-110.  | 1.1  | 135       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Histone Deacetylases Play a Major Role in the Transcriptional Regulation of the Plasmodium falciparum Life Cycle. PLoS Pathogens, 2010, 6, e1000737.  | 4.7  | 135       |
| 20 | Artemisinin resistance in Plasmodium falciparum is associated with an altered temporal pattern of transcription. BMC Genomics, 2011, 12, 391.   | 2.8  | 135       |
| 21 | Oxidative stress and protein damage responses mediate artemisinin resistance in malaria parasites. PLoS Pathogens, 2018, 14, e1006930.  | 4.7  | 129       |
| 22 | Quantitative protein expression profiling reveals extensive post-transcriptional regulation and post-translational modifications in schizont-stage malaria parasites. Genome Biology, 2008, 9, R177.                            | 9.6  | 107       |
| 23 | Comparative Heterochromatin Profiling Reveals Conserved and Unique Epigenome Signatures Linked to Adaptation and Development of Malaria Parasites. Cell Host and Microbe, 2018, 23, 407-420.e8.                                 | 11.0 | 99        |
| 24 | A Plasmodium Falciparum Bromodomain Protein Regulates Invasion Gene Expression. Cell Host and Microbe, 2015, 17, 741-751.   | 11.0 | 96        |
| 25 | Dynamic Epigenetic Regulation of Gene Expression during the Life Cycle of Malaria Parasite Plasmodium falciparum. PLoS Pathogens, 2013, 9, e1003170.  | 4.7  | 90        |
| 26 | Artemisinin-resistant K13 mutations rewire Plasmodium falciparum's intra-erythrocytic metabolic program to enhance survival. Nature Communications, 2021, 12, 530.  | 12.8 | 82        |
| 27 | Cellular thermal shift assay for the identification of drug's target interactions in the Plasmodium falciparum proteome. Nature Protocols, 2020, 15, 1881-1921.   | 12.0 | 79        |
| 28 | Comparative Transcriptional and Genomic Analysis of Plasmodium falciparum Field Isolates. PLoS Pathogens, 2009, 5, e1000644.  | 4.7  | 76        |
| 29 | Antioxidant defense in Plasmodium falciparum—data mining of the transcriptome. Malaria Journal, 2004, 3, 23.  | 2.3  | 70        |
| 30 | H2A.Z and H2B.Z double-stranded nucleosomes define intergenic regions and dynamically occupy gene promoters in the malaria parasite Plasmodium falciparum. Molecular Microbiology, 2013, 87, 1167-1182.                         | 2.5  | 67        |
| 31 | Epigenetic memory takes center stage in the survival strategy of malaria parasites. Current Opinion in Microbiology, 2014, 20, 88-95.   | 5.1  | 67        |
| 32 | Antibodies Targeting the PfRH1 Binding Domain Inhibit Invasion of Plasmodium falciparum Merozoites. PLoS Pathogens, 2008, 4, e1000104.  | 4.7  | 65        |
| 33 | New insights into the Plasmodium vivax transcriptome using RNA-Seq. Scientific Reports, 2016, 6, 20498.   | 3.3  | 65        |
| 34 | Adaptation of Plasmodium falciparum to its transmission environment. Nature Ecology and Evolution, 2018, 2, 377-387.  | 7.8  | 65        |
| 35 | Plasmodium falciparum STEVOR Proteins Are Highly Expressed in Patient Isolates and Located in the Surface Membranes of Infected Red Blood Cells and the Apical Tips of Merozoites. Infection and Immunity, 2008, 76, 3329-3336. | 2.2  | 63        |
| 36 | Comparative Gene Expression Profiling of P. falciparum Malaria Parasites Exposed to Three Different Histone Deacetylase Inhibitors. PLoS ONE, 2012, 7, e31847.  | 2.5  | 63        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | Data mining of the transcriptome of <i>Plasmodium falciparum</i> : the pentose phosphate pathway and ancillary processes. <i>Malaria Journal</i> , 2005, 4, 17.  | 2.3  | 59        |
| 38 | DNA microarrays for malaria. <i>Trends in Parasitology</i> , 2002, 18, 39-45.  | 3.3  | 58        |
| 39 | Integrated analysis of the <i>Plasmodium</i> species transcriptome. <i>EBioMedicine</i> , 2016, 7, 255-266.  | 6.1  | 55        |
| 40 | DNA damage regulation and its role in drug-related phenotypes in the malaria parasites. <i>Scientific Reports</i> , 2016, 6, 23603.  | 3.3  | 54        |
| 41 | Selection of long oligonucleotides for gene expression microarrays using weighted rank-sum strategy. <i>BMC Bioinformatics</i> , 2007, 8, 350.   | 2.6  | 50        |
| 42 | The origins of malaria artemisinin resistance defined by a genetic and transcriptomic background. <i>Nature Communications</i> , 2018, 9, 5158.  | 12.8 | 41        |
| 43 | Biochemical Analysis of the 20 S Proteasome of <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 15800-15808.  | 3.4  | 40        |
| 44 | Analysis of subtelomeric virulence gene families in <i>Plasmodium falciparum</i> by comparative transcriptional profiling. <i>Molecular Microbiology</i> , 2012, 84, 243-259.  | 2.5  | 38        |
| 45 | Crystal Structure of the FK506 Binding Domain of <i>Plasmodium falciparum</i> FKBP35 in Complex with FK506. <i>Biochemistry</i> , 2008, 47, 5951-5961.   | 2.5  | 35        |
| 46 | The human malaria parasite <i>Plasmodium falciparum</i> exports the ATP-binding cassette protein PFGCN20 to membrane structures in the host red blood cell. <i>Molecular and Biochemical Parasitology</i> , 1998, 97, 81-95. | 1.1  | 33        |
| 47 | Artemisinin resistance in the malaria parasite, <i>Plasmodium falciparum</i> , originates from its initial transcriptional response. <i>Communications Biology</i> , 2022, 5, 274.   | 4.4  | 33        |
| 48 | <i>Plasmodium knowlesi</i> gene expression differs in ex vivo compared to in vitro blood-stage cultures. <i>Malaria Journal</i> , 2015, 14, 110.   | 2.3  | 31        |
| 49 | A heat-shock response regulated by the PfAP2-HS transcription factor protects human malaria parasites from febrile temperatures. <i>Nature Microbiology</i> , 2021, 6, 1163-1174.  | 13.3 | 30        |
| 50 | Identification of a New Chemical Class of Antimalarials. <i>Journal of Infectious Diseases</i> , 2012, 206, 735-743.   | 4.0  | 28        |
| 51 | Structural polymorphism in the promoter of <i>pfmpr2</i> confers <i>Plasmodium falciparum</i> tolerance to quinoline drugs. <i>Molecular Microbiology</i> , 2014, 91, 918-934.   | 2.5  | 28        |
| 52 | Histone 4 lysine 8 acetylation regulates proliferation and host-pathogen interaction in <i>Plasmodium falciparum</i> . <i>Epigenetics and Chromatin</i> , 2017, 10, 40.  | 3.9  | 28        |
| 53 | Epigenetic landscapes underlining global patterns of gene expression in the human malaria parasite, <i>Plasmodium falciparum</i> . <i>International Journal for Parasitology</i> , 2017, 47, 399-407.                        | 3.1  | 26        |
| 54 | Genome-wide analysis in <i>Plasmodium falciparum</i> reveals early and late phases of RNA polymerase II occupancy during the infectious cycle. <i>BMC Genomics</i> , 2014, 15, 959.  | 2.8  | 24        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Cloning and sequence analysis of a novel member of the ATP-binding cassette (ABC) protein gene family from <i>Plasmodium falciparum</i> . <i>Molecular and Biochemical Parasitology</i> , 1996, 81, 41-51.   | 1.1  | 23        |
| 56 | A Whole Cell Pathway Screen Reveals Seven Novel Chemosensitizers to Combat Chloroquine Resistant Malaria. <i>Scientific Reports</i> , 2013, 3, 1734.   | 3.3  | 23        |
| 57 | DNA Microarray-Based Genome-Wide Analyses of <i>Plasmodium</i> Parasites. <i>Methods in Molecular Biology</i> , 2012, 923, 189-211.  | 0.9  | 21        |
| 58 | The parasitophorous vacuole nutrient channel is critical for drug access in malaria parasites and modulates the artemisinin resistance fitness cost. <i>Cell Host and Microbe</i> , 2021, 29, 1774-1787.e9.  | 11.0 | 21        |
| 59 | Quantitative Proteomics Reveals New Insights into Erythrocyte Invasion by <i>Plasmodium falciparum</i> . <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.010645.   | 3.8  | 20        |
| 60 | Transcriptome profiling reveals functional variation in <i>Plasmodium falciparum</i> parasites from controlled human malaria infection studies. <i>EBioMedicine</i> , 2019, 48, 442-452.   | 6.1  | 19        |
| 61 | A comprehensive RNA handling and transcriptomics guide for high-throughput processing of <i>Plasmodium</i> blood-stage samples. <i>Malaria Journal</i> , 2020, 19, 363.  | 2.3  | 19        |
| 62 | A Moonlighting Function of <i>Plasmodium falciparum</i> Histone 3, Mono-Methylated at Lysine 9?. <i>PLoS ONE</i> , 2010, 5, e10252.  | 2.5  | 14        |
| 63 | Design of a variant surface antigen-supplemented microarray chip for whole transcriptome analysis of multiple <i>Plasmodium falciparum</i> cytoadherent strains, and identification of strain-transcendent rif and stevor genes. <i>Malaria Journal</i> , 2011, 10, 180. | 2.3  | 13        |
| 64 | Defining species specific genome differences in malaria parasites. <i>BMC Genomics</i> , 2010, 11, 128.  | 2.8  | 12        |
| 65 | Role of Calcium Signaling in the Transcriptional Regulation of the Apicoplast Genome of <i>Plasmodium falciparum</i> . <i>BioMed Research International</i> , 2014, 2014, 1-12.  | 1.9  | 12        |
| 66 | Gene copy number variation in natural populations of <i>Plasmodium falciparum</i> in Eastern Africa. <i>BMC Genomics</i> , 2018, 19, 372.  | 2.8  | 12        |
| 67 | Human peroxiredoxin 6 is essential for malaria parasites and provides a host-based drug target. <i>Cell Reports</i> , 2022, 39, 110923.  | 6.4  | 10        |
| 68 | The genomics of malaria infection. <i>Trends in Parasitology</i> , 2004, 20, 553-557.  | 3.3  | 9         |
| 69 | Stochastic expression of invasion genes in <i>Plasmodium falciparum</i> schizonts. <i>Nature Communications</i> , 2022, 13, .  | 12.8 | 9         |
| 70 | A crucial piece in the puzzle of the artemisinin resistance mechanism in <i>Plasmodium falciparum</i> . <i>Trends in Parasitology</i> , 2015, 31, 345-346.   | 3.3  | 6         |
| 71 | Protein Transport in the Host Cell Cytoplasm and ATP-Binding Cassette Proteins in <i>Plasmodium Falciparum</i> -Infected Erythrocytes. <i>Novartis Foundation Symposium</i> , 1999, 226, 231-251.  | 1.1  | 4         |
| 72 | Mediator Complex of the Malaria Parasite <i>Plasmodium falciparum</i> Associates with Evolutionarily Novel Subunits. <i>ACS Omega</i> , 2022, 7, 14867-14874.  | 3.5  | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Mechanistic insights into non-immunosuppressive immunophilin ligands as potential antimalarial therapeutics. <i>Malaria Journal</i> , 2010, 9, . | 2.3 | 0         |
| 74 | It is all in your head: a model for cerebral malaria. <i>Malaria Journal</i> , 2010, 9, .  | 2.3 | 0         |