

Karine G Le Roch

List of Publications by Year in descending order

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18555
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Discovery of Gene Function by Expression Profiling of the Malaria Parasite Life Cycle. <i>Science</i> , 2003, 301, 1503-1508. | 12.6 | 1,122 |
| 3 | Global analysis of transcript and protein levels across the <i>Plasmodium falciparum</i> life cycle. <i>Genome Research</i> , 2004, 14, 2308-2318. | 5.5 | 394 |
| 4 | Gene expression signatures and small-molecule compounds link a protein kinase to <i>Plasmodium falciparum</i> motility. <i>Nature Chemical Biology</i> , 2008, 4, 347-356. | 8.0 | 203 |
| 5 | Three-dimensional modeling of the <i>P. falciparum</i> genome during the erythrocytic cycle reveals a strong connection between genome architecture and gene expression. <i>Genome Research</i> , 2014, 24, 974-988. | 5.5 | 193 |
| 6 | Recent advances in malaria drug discovery. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 2829-2843. | 2.2 | 182 |
| 7 | Marine Actinomycetes: A New Source of Compounds against the Human Malaria Parasite. <i>PLoS ONE</i> , 2008, 3, e2335. | 2.5 | 160 |
| 8 | High content live cell imaging for the discovery of new antimalarial marine natural products. <i>BMC Infectious Diseases</i> , 2012, 12, 1. | 2.9 | 137 |
| 9 | Polysome profiling reveals translational control of gene expression in the human malaria parasite <i>Plasmodium falciparum</i> . <i>Genome Biology</i> , 2013, 14, R128. | 9.6 | 131 |
| 10 | Nucleosome landscape and control of transcription in the human malaria parasite. <i>Genome Research</i> , 2010, 20, 228-238. | 5.5 | 126 |
| 11 | In silico discovery of transcription regulatory elements in <i>Plasmodium falciparum</i> . <i>BMC Genomics</i> , 2008, 9, 70. | 2.8 | 104 |
| 12 | Pfnek-1, a NIMA-related kinase from the human malaria parasite <i>Plasmodium falciparum</i> . <i>FEBS Journal</i> , 2001, 268, 2600-2608. | 0.2 | 103 |
| 13 | Activation of a <i>Plasmodium falciparum</i> cdc2-related Kinase by Heterologous p25 and Cyclin H. <i>Journal of Biological Chemistry</i> , 2000, 275, 8952-8958. | 3.4 | 91 |
| 14 | The mRNA-bound proteome of the human malaria parasite <i>Plasmodium falciparum</i> . <i>Genome Biology</i> , 2016, 17, 147. | 8.8 | 87 |
| 15 | Changes in genome organization of parasite-specific gene families during the <i>Plasmodium</i> transmission stages. <i>Nature Communications</i> , 2018, 9, 1910. | 12.8 | 82 |
| 16 | Deciphering the Ubiquitin-Mediated Pathway in Apicomplexan Parasites: A Potential Strategy to Interfere with Parasite Virulence. <i>PLoS ONE</i> , 2008, 3, e2386. | 2.5 | 80 |
| 17 | Genome-wide Mapping of DNA Methylation in the Human Malaria Parasite <i>Plasmodium falciparum</i> . <i>Cell Host and Microbe</i> , 2013, 14, 696-706. | 11.0 | 79 |
| 18 | Antimalarial Bromophycolides J [~] Q from the Fijian Red Alga <i>Callophycus serratus</i> . <i>Journal of Organic Chemistry</i> , 2009, 74, 2736-2742. | 3.2 | 77 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | The multifunctional autophagy pathway in the human malaria parasite, <i>Plasmodium falciparum</i> . <i>Autophagy</i> , 2014, 10, 80-92. | 9.1 | 77 |
| 20 | Nascent RNA sequencing reveals mechanisms of gene regulation in the human malaria parasite <i>Plasmodium falciparum</i> . <i>Nucleic Acids Research</i> , 2017, 45, 7825-7840. | 14.5 | 70 |
| 21 | Identification and Initial Characterization of Three Novel Cyclin-related Proteins of the Human Malaria Parasite <i>Plasmodium falciparum</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 39839-39850. | 3.4 | 69 |
| 22 | Unraveling the Ubiquitome of the Human Malaria Parasite. <i>Journal of Biological Chemistry</i> , 2011, 286, 40320-40330. | 3.4 | 66 |
| 23 | BRAT: bisulfite-treated reads analysis tool. <i>Bioinformatics</i> , 2010, 26, 572-573. | 4.1 | 65 |
| 24 | Comparative 3D genome organization in apicomplexan parasites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3183-3192. | 7.1 | 65 |
| 25 | An Apicoplast Localized Ubiquitylation System Is Required for the Import of Nuclear-encoded Plastid Proteins. <i>PLoS Pathogens</i> , 2013, 9, e1003426. | 4.7 | 63 |
| 26 | A systematic approach to understand the mechanism of action of the bisthiazolium compound T4 on the human malaria parasite, <i>Plasmodium falciparum</i> . <i>BMC Genomics</i> , 2008, 9, 513. | 2.8 | 58 |
| 27 | Multiple dimensions of epigenetic gene regulation in the malaria parasite <i>Plasmodium falciparum</i> . <i>BioEssays</i> , 2015, 37, 182-194. | 2.5 | 54 |
| 28 | Bioactive Bromophycolides R ^U from the Fijian Red Alga <i>Callophycus serratus</i> . <i>Journal of Natural Products</i> , 2010, 73, 275-278. | 3.0 | 53 |
| 29 | Callophycoic Acids and Callophycols from the Fijian Red Alga <i>Callophycus serratus</i> . <i>Journal of Organic Chemistry</i> , 2007, 72, 7343-7351. | 3.2 | 52 |
| 30 | DNA-encoded nucleosome occupancy is associated with transcription levels in the human malaria parasite <i>Plasmodium falciparum</i> . <i>BMC Genomics</i> , 2014, 15, 347. | 2.8 | 52 |
| 31 | Real-time dynamics of <i>Plasmodium</i> NDC80 reveals unusual modes of chromosome segregation during parasite proliferation. <i>Journal of Cell Science</i> , 2020, 134, . | 2.0 | 51 |
| 32 | Dynamic and Combinatorial Landscape of Histone Modifications during the Intraerythrocytic Developmental Cycle of the Malaria Parasite. <i>Journal of Proteome Research</i> , 2016, 15, 2787-2801. | 3.7 | 49 |
| 33 | The Role of Chromatin Structure in Gene Regulation of the Human Malaria Parasite. <i>Trends in Parasitology</i> , 2017, 33, 364-377. | 3.3 | 46 |
| 34 | Monitoring the chromosome 2 intraerythrocytic transcriptome of <i>Plasmodium falciparum</i> using oligonucleotide arrays.. <i>American Journal of Tropical Medicine and Hygiene</i> , 2002, 67, 233-243. | 1.4 | 46 |
| 35 | An Introduction to Functional Genomics and Systems Biology. <i>Advances in Wound Care</i> , 2013, 2, 490-498. | 5.1 | 45 |
| 36 | <i>Plasmodium</i> kinesin-8X associates with mitotic spindles and is essential for oocyst development during parasite proliferation and transmission. <i>PLoS Pathogens</i> , 2019, 15, e1008048. | 4.7 | 43 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Synthesis and Potent Antimalarial Activity of Kalihinol B. <i>Journal of the American Chemical Society</i> , 2015, 137, 4912-4915. | 13.7 | 42 |
| 38 | Post-translational modifications in Plasmodium: More than you think!. <i>Molecular and Biochemical Parasitology</i> , 2009, 168, 123-134. | 1.1 | 39 |
| 39 | Nucleosome occupancy at transcription start sites in the human malaria parasite: A hard-wired evolution of virulence?. <i>Infection, Genetics and Evolution</i> , 2011, 11, 716-724. | 2.3 | 38 |
| 40 | Unusual antimalarial meroditerpenes from tropical red macroalgae. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 5662-5665. | 2.2 | 34 |
| 41 | The Arabidopsis PHD-finger protein EDM2 has multiple roles in balancing NLR immune receptor gene expression. <i>PLoS Genetics</i> , 2020, 16, e1008993. | 3.5 | 33 |
| 42 | Characterization of the Ubiquitylating Components of the Human Malaria Parasite's Protein Degradation Pathway. <i>PLoS ONE</i> , 2012, 7, e43477. | 2.5 | 33 |
| 43 | Kinesin-8B controls basal body function and flagellum formation and is key to malaria transmission. <i>Life Science Alliance</i> , 2019, 2, e201900488. | 2.8 | 33 |
| 44 | High-content live cell imaging with RNA probes: advancements in high-throughput antimalarial drug discovery. <i>BMC Cell Biology</i> , 2009, 10, 45. | 3.0 | 31 |
| 45 | Bromophycoic Acids: Bioactive Natural Products from a Fijian Red Alga <i>Callophycus</i> sp.. <i>Journal of Organic Chemistry</i> , 2012, 77, 8000-8006. | 3.2 | 31 |
| 46 | NO ₂ MAL: accurate nucleosome positioning using a modified Gaussian mixture model. <i>Bioinformatics</i> , 2012, 28, i242-i249. | 4.1 | 30 |
| 47 | Influence of Human p16INK4 and p21CIP1 on the in Vitro Activity of Recombinant Plasmodium falciparum Cyclin-Dependent Protein Kinases. <i>Biochemical and Biophysical Research Communications</i> , 2001, 288, 1207-1211. | 2.1 | 29 |
| 48 | From Genes to Transcripts, a Tightly Regulated Journey in Plasmodium. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 618454. | 3.9 | 29 |
| 49 | Mechanisms of gene regulation in Plasmodium. <i>American Journal of Tropical Medicine and Hygiene</i> , 2007, 77, 201-8. | 1.4 | 29 |
| 50 | The ubiquitin system: an essential component to unlocking the secrets of malaria parasite biology. <i>Molecular BioSystems</i> , 2014, 10, 715-723. | 2.9 | 26 |
| 51 | Structures, semisyntheses, and absolute configurations of the antiplasmodial β -substituted β -lactam monamphilectines B and C from the sponge <i>Svenzea flava</i> . <i>Tetrahedron</i> , 2015, 71, 487-494. | 1.9 | 26 |
| 52 | Antimalarial Properties of Simplified Kalihinol Analogues. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 355-360. | 2.8 | 25 |
| 53 | The role of epigenetics and chromatin structure in transcriptional regulation in malaria parasites. <i>Briefings in Functional Genomics</i> , 2019, 18, 302-313. | 2.7 | 25 |
| 54 | The Arabidopsis RRM domain protein EDM3 mediates race-specific disease resistance by controlling H3K9me2-dependent alternative polyadenylation of RPP7 immune receptor transcripts. <i>Plant Journal</i> , 2019, 97, 646-660. | 5.7 | 24 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Predicting gene expression in the human malaria parasite <i>Plasmodium falciparum</i> using histone modification, nucleosome positioning, and 3D localization features. <i>PLoS Computational Biology</i> , 2019, 15, e1007329. | 3.2 | 23 |
| 56 | <i>Plasmodium</i> Condensin Core Subunits SMC2/SMC4 Mediate Atypical Mitosis and Are Essential for Parasite Proliferation and Transmission. <i>Cell Reports</i> , 2020, 30, 1883-1897.e6. | 6.4 | 22 |
| 57 | Bromophycolide A Targets Heme Crystallization in the Human Malaria Parasite <i>Plasmodium falciparum</i> . <i>ChemMedChem</i> , 2011, 6, 1572-1577. | 3.2 | 21 |
| 58 | Synthesis and preliminary biological evaluation of a small library of hybrid compounds based on Ugi isocyanide multicomponent reactions with a marine natural product scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5339-5343. | 2.2 | 21 |
| 59 | Exploratory analysis of genomic segmentations with Segtools. <i>BMC Bioinformatics</i> , 2011, 12, 415. | 2.6 | 20 |
| 60 | Natural product-based synthesis of novel anti-infective isothiocyanate- and isoselenocyanate-functionalized amphilectane diterpenes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 854-857. | 2.2 | 20 |
| 61 | Third-generation sequencing revises the molecular karyotype for <i>Toxoplasma gondii</i> and identifies emerging copy number variants in sexual recombinants. <i>Genome Research</i> , 2021, 31, 834-851. | 5.5 | 19 |
| 62 | Dynamic Chromatin Structure and Epigenetics Control the Fate of Malaria Parasites. <i>Trends in Genetics</i> , 2021, 37, 73-85. | 6.7 | 18 |
| 63 | The transcriptional regulator HDP1 controls expansion of the inner membrane complex during early sexual differentiation of malaria parasites. <i>Nature Microbiology</i> , 2022, 7, 289-299. | 13.3 | 15 |
| 64 | Attacking COVID-19 Progression Using Multi-Drug Therapy for Synergetic Target Engagement. <i>Biomolecules</i> , 2021, 11, 787. | 4.0 | 14 |
| 65 | Structures and Bioactivities of Dihydrochalcones from <i>Metrodorea stipularis</i> . <i>Journal of Natural Products</i> , 2014, 77, 2418-2422. | 3.0 | 13 |
| 66 | Insights into the evolution and drug susceptibility of <i>Babesia duncani</i> from the sequence of its mitochondrial and apicoplast genomes. <i>International Journal for Parasitology</i> , 2019, 49, 105-113. | 3.1 | 13 |
| 67 | The chromatin bound proteome of the human malaria parasite. <i>Microbial Genomics</i> , 2020, 6, . | 2.0 | 13 |
| 68 | Concise Synthesis of the Antiplasmodial Isocyanoterpene 7,20-Diisocyanoadociane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13749-13752. | 13.8 | 12 |
| 69 | Functional genomics of RAP proteins and their role in mitoribosome regulation in <i>Plasmodium falciparum</i> . <i>Nature Communications</i> , 2022, 13, 1275. | 12.8 | 12 |
| 70 | Chromatin-driven de novo discovery of DNA binding motifs in the human malaria parasite. <i>BMC Genomics</i> , 2011, 12, 601. | 2.8 | 10 |
| 71 | Homopolymer tract organization in the human malarial parasite <i>Plasmodium falciparum</i> and related Apicomplexan parasites. <i>BMC Genomics</i> , 2014, 15, 848. | 2.8 | 10 |
| 72 | Pharmacokinetics, Metabolism, and in Vivo Efficacy of the Antimalarial Natural Product Bromophycolide A. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 989-993. | 2.8 | 9 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Sex in <i>Plasmodium falciparum</i> : Silence Play between GDV1 and HP1. <i>Trends in Parasitology</i> , 2018, 34, 450-452. | 3.3 | 8 |
| 74 | Unraveling the 3D genome of human malaria parasites. <i>Seminars in Cell and Developmental Biology</i> , 2019, 90, 144-153. | 5.0 | 6 |
| 75 | Design and tests of prospective property predictions for novel antimalarial 2-aminopropylaminoquinolones. <i>Journal of Computer-Aided Molecular Design</i> , 2020, 34, 1117-1132. | 2.9 | 6 |
| 76 | Analysis of nucleosome positioning landscapes enables gene discovery in the human malaria parasite <i>Plasmodium falciparum</i> . <i>BMC Genomics</i> , 2015, 16, 1005. | 2.8 | 5 |
| 77 | Genome-Wide Analysis of RNA-Protein Interactions in <i>Plasmodium falciparum</i> Using eCLIP-Seq. <i>Methods in Molecular Biology</i> , 2021, 2369, 139-164. | 0.9 | 5 |
| 78 | Three-dimensional chromatin in infectious disease—A role for gene regulation and pathogenicity?. <i>PLoS Pathogens</i> , 2021, 17, e1009207. | 4.7 | 5 |
| 79 | Identification and phylogenetic analysis of RNA binding domain abundant in apicomplexans or RAP proteins. <i>Microbial Genomics</i> , 2021, 7, . | 2.0 | 5 |
| 80 | PfAlba1: master regulator of translation in the malaria parasite. <i>Genome Biology</i> , 2015, 16, 221. | 8.8 | 4 |
| 81 | Chromosomes Conformation Capture Coupled with Next-Generation Sequencing (Hi-C) in <i>Plasmodium falciparum</i> . <i>Methods in Molecular Biology</i> , 2021, 2369, 15-25. | 0.9 | 4 |
| 82 | Three-Dimensional Genome Organization and Virulence in Apicomplexan Parasites. <i>Epigenetics Insights</i> , 2019, 12, 251686571987943. | 2.0 | 3 |
| 83 | Strand-Specific RNA-Seq Applied to Malaria Samples. <i>Methods in Molecular Biology</i> , 2021, 2170, 19-33. | 0.9 | 3 |
| 84 | A newly characterized malaria antigen on erythrocyte and merozoite surfaces induces parasite inhibitory antibodies. <i>Journal of Experimental Medicine</i> , 2021, 218, . | 8.5 | 2 |
| 85 | Epigenetics of Malaria Parasites. <i>Epigenetics and Human Health</i> , 2017, , 243-264. | 0.2 | 0 |