

VI



International Conference on Malaria and Other Blood Parasites of Wildlife & III International Symposium of the Wildlife Diseases Research Network

November 26th – 29th 2024

Sede de Investigación Universitaria – SIU

Cl. 62 #52-59, La Candelaria

Medellín, Colombia.

Hosted by the Grupo de Ecología y Evolución de Vertebrados¹, Grupo Malaria², International Society of Zoological Sciences and the Grupo Relación Parásito Hospedero³.

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TUESDAY 26 th - FRIDAY 29 th NOVEMBER, 2024.					
TIME	26 th - TUESDAY	27 th - WEDNESDAY	28 th - THURSDAY	29 th - FRIDAY	30 th - Saturday
7:00 - 8:00 am	REGISTER				GUIDED TOURS (NOT INCLUDED IN THE REGISTRATION FEE)
8:00 – 9:00 am.			Workshop: Open meeting on use of IA tools for image-based parasite diagnosis		
9:00 - 9:10 a. m.	WELCOME/OFFICIAL OPENING	The Wildlife Malaria Network (WIMANET): who we are, what we do, and what we can do for you. Jenny Dunn	Birds and their hidden companions: Are there connections? Alžbeta Šujanová	The biology of blood parasites in amphibians and reptiles: Insights into host-parasite interactions and ecology. Edward Netherlands	
9:10 - 9:25 a. m.					
9:25 - 9:40 a. m.					
9:40 - 9:55 a. m.	Blood parasites and wildlife: The development of a discipline. Santiago Merino	Tempo and mode in the evolution of primate malaria parasites. Ananias Escalante	Long-term efficacy of Malarone™ against malaria: insights from a study on <i>Plasmodium relictum</i> in Canaries. Vaidas Palinauskas	<i>Isospora</i> and <i>Lankesterella</i> parasites (Eimeriidae, Apicomplexa) of Passeriformes in Europe: infection rates, phylogeny, and pathogenicity. Josef Harl	
9:55 - 10:10 a. m.		Why is pSGS1 so successful? Ana Rivero	PHOTO	Spatial, phenological, and host-specificity patterns of three genera of blood coccidians in two Mediterranean lizards. Claudia Mediavilla (ONLINE)	

10:10 - 10:20 a. m.		COFFE BREAK	
10:20 - 10:40 a. m.	COFFE BREAK		

TIME	26 th - TUESDAY	27 th - WEDNESDAY	28 th - THURSDAY	29 th - FRIDAY	30 th - Saturday
10:40 - 10:55 a.m.	Assemblages of haemosporidian parasites in birds with different migration status. Xi Huang (ONLINE)	Infection Challenges with Avian Malaria to understand the genetic basis of key processes on bird evolution. Ricardo Jorge Lopes	Effects of triazole fungicides consumption and avian malaria infection on passerine birds' health and immune system. Jéssica Jiménez-Peñuela	Looking for small creatures: a comparative analysis of methods for detecting <i>Lankesterella</i> parasites in birds. Germán Alfredo Gutiérrez Liberato	GUIDED TOURS (NOT INCLUDED IN THE REGISTRATION FEE)
10:55 - 11:10 am	What kind of birds are more susceptible to avian malaria? A global analysis based on interpretable machine learning approach. Xinyi Wang	Unraveling Cryptic Genetic Diversity and the Complex Co-evolutionary Dynamics of Avian Malaria Parasites and Their Hosts. Lu Dong (ONLINE)	Infection intensity shapes specialization and beta diversity of haemosporidian–bird networks across elevations. Diego Santiago-Alarcon (ONLINE)	Diversity of morphotypes and molecular lineages associated with <i>Onchocercidae</i> infecting wild birds, amphibians, and reptiles in Colombia. Gustavo Andres Fuentes-Rodriguez	
11:15 - 11:30 am	A dominant gut bacterium modulates the asymptomatic viral carriage of migratory birds. Longying Wen	Phenotypic plasticity of <i>Plasmodium</i> parasites in response to environmental triggers. Valentin Chauvin	Exo-erythrocytic development of <i>Haemoproteus attenuatus</i> and first report of abortive development of <i>Haemoproteus majoris</i> in the Thrush nightingale <i>Luscinia Luscinia</i> . Mélanie Tchoumbou (ONLINE)	Predictors of diversity, specificity and distribution of avian Hemosporidia in South America. Juliana Tamayo-Quintero	
11:30 - 11:45 am	Robotic data acquisition with deep learning enables cell image–based prediction of transcriptomic phenotypes. Jianshi Jin	Influence of Host and Environmental Factors on haemosporidian Infections in Tropical Birds. Paula Pinzón Cardenas	Meronts and megalomeronts: evidence for phenotypic variation during exo-erythrocytic development of <i>Haemoproteus</i> species. Tanja Himmel	Dynamics of resting metabolic rate and innate immune response in malaria-infected Eurasian siskins. Andrey Mukhin	

11:45 - 12:00 am	Lunch	Changes in parasite abundance in a bird population sampled across a quarter of a century. Olof Hellgren	Application of YOLO algorithm to the detection of wildlife aviary blood parasites. Juan D. García-Arteaga	Linking past and present: treasure chest in museums. Mélanie Duc	
12:00 - 1:30 pm	LUNCH				

TIME	26 th - TUESDAY	27 th - WEDNESDAY	28 th - THURSDAY	29 th - FRIDAY	30 th - Saturday
1:30 - 1:45 pm	Blood parasites in rodents from anthropized landscapes. Rodolfo Dirzo	Blood-borne pathogens associated with bats. Alexandra Corduneanu	A new long-read mitochondrial-genome protocol (PacBio HiFi) for avian haemosporidian parasites: Raptors as a case of study. Andreina Pacheco	A journey into the knowledge of blood parasites of wild vertebrates in Colombia. Angie D. González	GUIDED TOURS (NOT INCLUDED IN THE REGISTRATION FEE)
1:45 - 2:00 pm			Gene family analyses of avian haemosporidian genomes. Nayden Chakarov	<i>Leucocytozoon</i> sporozoites in wild-caught Simuliidae. Carolina R. F. Chagas (ONLINE)	
2:00 - 2:15 pm			Host-parasite interactions of an avian blood parasite elucidated by single-cell transcriptomics. Tim Maximilian Rapp	Diversity and abundance of <i>Culicoides</i> biting midges transmitting <i>Haemoproteus</i> parasites on the Curonian spit (south-eastern baltic sea coast). Elena Platonova	
2:15 - 2:30 pm	Identifying the diversity of mosquito vectors in the Doñana World Heritage Site. Josué Martínez-de la Puente	High diversity and phylogenetic relationships of <i>Polychromophilus</i> and <i>Hepatocystis</i> parasites of various bat species in Cambodia. Juliane Schaer. (ONLINE)	Haemosporidian parasites in nestlings of birds of prey in Lithuania: prevalence, diversity, and vectors. Dovilė Bukauskaitė	Host Plasmodium infection status affects <i>Culex pipiens</i> life-history traits across sequential blood meals. Soledad Santillán-Guaysamín	

2:30 - 2:45 pm	<p>Landscape and mosquito community explain the avian malaria infection patterns in <i>Culex pipiens</i>.</p> <p>Martina Ferraguti</p>	<p>Molecular survey of hemopathogens in non-hematophagous bats from Belo Horizonte, Minas Gerais, Brazil.</p> <p>Nícolas Colácio</p>	<p>Prior host species prime the gene expression of malaria parasites</p> <p>Luz García-Longoria</p>	<p>Role of the Invasive <i>Aedes albopictus</i> in the Transmission of Avian Malaria Parasites.</p> <p>Jesús Veiga</p>	
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TIME	26 th - TUESDAY	27 th - WEDNESDAY	28 th - THURSDAY	29 th - FRIDAY	30 th - Saturday
2:45 - 3:00 pm	Associations between <i>Culex perexiguus</i> microbiota and the avian pathogen West Nile virus. Marta Garrigós	Transcriptome analysis of <i>Hepaticocystis</i> -infected epauletted fruit bats in Uganda. Brenda Mugambi (ONLINE)	A plethora of blood parasites (Protozoa: Apicomplexa: Haemosporida) in captive and free-ranging Afrotropical birds: Implications on conservation and opportunities for future research. Mamohale Chaisi (ONLINE)	Shifting Landscapes, Shifting Vectors: How Forest Disturbance Alters <i>Aedes</i> Mosquito Communities and Potential for Avian Malaria Transmission in a Cameroonian Rainforest. Cyril Kowo (ONLINE)	GUIDED TOURS (NOT INCLUDED IN THE REGISTRATION FEE)
3:00 - 3:15 pm	Association of Matryoshka RNA Viruses with Avian haemosporidian Parasites. Ravinder Sehgal	Forests, altitude, or parasites: <i>Alophoixus flaveolus</i> in the Hkakabo Razi Landscape. Swen C Renner	The prevalence and genetic diversity of haemosporidian parasites (Apicomplexa, Haemosporida) in birds of the white sea. Maria Erokhina	Diversity of trypanosomatids in <i>Culicoides</i> biting midges Margarita Kazak (ONLINE)	
3:15 - 3:30 pm	Wild-caught biting midges as vectors of <i>Haemoproteus</i> parasites and factors influencing the spread of infection. Rita Žiegytė	Experimental evidence that blood parasite infection and nest microclimate affect incubation behaviour in cavity-nesting songbirds. Marina García-del Río	Selective whole genome amplification – A promising tool for making malaria genomic studies more accessible and affordable. Angela Theodosopoulos	Trypanosomatids – neglected avian blood parasites. Rasa Bernotiene	
3:30 - 3:45 pm	A proposal for the application of the diversity index in parasites: blood parasites in fish from two types of water sources in Arauca, Colombia.	Life-History Traits and haemosporidian Parasite Load in Great Tit Nestlings in Vienna, Austria: the role of urbanization. Marcela Suarez-Rubio	Avian haemosporidian Infection in Wildlife Rehabilitation Centres of Portugal: Causes, Consequences, and Genetic diversity. Alfonso Marzal	Rhinella as an animal model: its value in studying blood parasites. Nubia E. Matta Camacho	

	Andres Felipe Aponte-Gutiérrez				
3:45 - 4:00 p.m	COFFE BREAK				
4:00 - 5:30 p.m	20 POSTERS EACH DAY			CONFERENCE CLOSING	
5:00 – 7:00 p.m	----- -----	Workshop: Open meeting on use of IA tools for image-based parasite diagnosis.	CONFERENCE DINNER	-----	

POSTERS

TUESDAY 26th - FRIDAY 29th NOVEMBER, 2024.

POSTER	TUESDAY, 26th NOVEMBER. 4:30 – 5:30 PM
1	Infection by <i>Acanthocheilonema</i> sp. and <i>Dirofilaria</i> sp. in mesocarnivores in the Andean region of Colombia. Brayan Andrés Gamboa-Suárez
2	First molecular detection of <i>Polychromophilus</i> spp (Haemosporida: Plasmodiidae) in bat flies from brazilian bats. Bruno S. Mathias
3	Host species and age-specific variation on Hepatozoon prevalence and its effect on body condition in two Neotropical crocodiles. Wendy Flores-Saavedra
4	Effect of climate change and economic development on hemorrhagic fever with renal syndrome. Gang Chang
5	<i>Culex pipiens</i> microbiome: effects of diet and avian malaria exposure. Jesús Veiga
6	Stress might impact <i>Hepatozoon</i> infections in peri-domestic epauletted fruit bats in Uganda. Juliane Schaer (ONLINE)
7	Exploring the effects of avian malaria on bird gut microbiota. Juste Azelyte
8	Avian haemosporidian parasites from wild-caught mosquitoes with new evidence on vectors of <i>Plasmodium matutum</i> . Kristina Valavičiūtė-Pocienė (ONLINE)
9	A checklist of the <i>Anopheles</i> mosquito species (Diptera: Culicidae) in Colombia Caribbean. Luis Acuña-Cantillo

10	Avian malaria parasites (haemosporida: plasmodiidae) in mosquitoes (diptera: culicidae) on the Curonian Spit, South-East Baltic Sea coast. Maria Erokina
11	Microbiota disruption modulates <i>Culex pipiens</i> immune response. Marta Garrigós
12	Targeting key mosquito species to control West Nile virus transmission in a mediterranean region. Martina Ferraguti
13	Matryoshka viruses and avian haemosporidians in Europe: finding a needle in a haystack. Mélanie Duc
14	First investigation of blood parasites of bats in Burkina Faso detects <i>Hepatocystis</i> parasites and infections with diverse <i>Trypanosoma</i> spp. Noel Gabiliga Thiombiano (ONLINE)
15	Microfilariae infection in short-distance migratory birds in Lithuania. Rasa Binkienė
16	Differential nested patterns of commensals and endosymbionts in microbial communities of two <i>Culex</i> mosquito species. Rita Žiegytė
17	Estimating Influencing Factors on the Global Distribution Pattern of Avian Haemosporidian Parasite . Beixi Wangzheng (ONLINE)
18	Blood parasites of fish from some localities of the Colombian Amazon and Orinoco regions. Carlos Arturo Vega Suárez

POSTER	WEDNESDAY, 27th NOVEMBER. 4:30 – 5:30 PM
1	Evolutionary adaptation in blood group genes across non-human primates may be driven by malaria-causing parasites. Alejandra Herbert Mainero (ONLINE)
2	Exo-erythrocytic stages of <i>Haemoproteus</i> parasites in blackcaps: coinfections and the challenges in identification. Alžbeta Šujanová
3	The prevalence of <i>Haemoproteus</i> spp. in different avian groups from southern Vietnam. Andrey Bushuev
4	Morphological and molecular characterization of <i>Trypanosoma</i> spp. in anurans from tropical ecosystems in Colombia. Angelica Tatiana Ospina Rios
5	Morphological diversity of hemoparasites present in Colombian Thraupidae species. Angie D. González
6	<i>Leptodactylidae</i> and <i>Bufonidae</i> blood parasites from Caatinga domain, Brazil. Carla Adrielle Costa de Carvalho
7	The impact of avian malaria infection on feather quality and feather growth rate of migratory passerines. Carlos Mora-Rubio
8	Diversity and host specificity of avian haemosporidians at the largest conservation reserve in the Atlantic Forest. Carolina C. Anjos
9	Seasonal regulation of haemosporidian infection risk throughout the annual cycle of migratory birds. Claudio Navarrete
10	Haemosporidian parasites in wintering long-eared owls <i>Asio otus</i> in Northern Serbia. Daliborka Stanković (ONLINE)

11	Factors associated with the prevalence of Haemosporidian parasites in Anseriformes from Chile. Daniela Loyola
12	Prevalence of haemosporidian blood parasites and leukocyte profile in two South Asian Babblers. Ekaterina Shishkina
13	Morphological and molecular identification of <i>Hepatozoon</i> spp. (Apicomplexa: Adeleorina) in some snakes from Colombia. Erick Nicolás Patiño Acosta
14	Molecular and microscopical detection of <i>Trypanosoma</i> spp. infections in reptiles and amphibians in Brazil. Gabriella R. C. Clemente
15	An integrative approach to understanding Leucocytozoon infections in Paridae birds. Germán Alfredo Gutiérrez Liberato
16	Sequestration of blood stages in <i>Leucocytozoon toddi</i> infections. Herbert Weissenböck
17	Changes in ornamental colouration and body condition caused by <i>Hepatozoon</i> infection in three Amazonian tortoise species. Irene Hernandez-Caballero
18	The prevalence of hemoparasites and leukocyte profile parameters in three species of European lizards. Irina Demina
19	Hemosporidios en aves silvestres en un gradiente altitudinal en el Departamento de Caldas-Colombia. Jesús David Santana Porras

POSTER	THURSDAY, 28th NOVEMBER. 4:30 – 5:30 PM
1	Haemosporida present in birds of <i>Vireo</i> and <i>Catharus</i> from a Colombian biological collection: morphological analysis reveals two new <i>Plasmodium</i> species. Juanita Cárdenas
2	Diversity of haemoparasites in free-living tropical dry forest and captive birds: how many are shared? Laura-Sofía Delgado-Luligo
3	The first report of <i>Plasmodium</i> infecting a Red-Legged-Seriema (<i>Cariama cristata</i>): A new <i>Plasmodium</i> sp. lineage found in Brazil with remarks on its pathogenicity. Lis Vieira
4	Annual distribution of hemoparasites infections in wild birds in a semideciduous forest in Brazil. Luiz Alves
5	Detection of Haemosporidia in Gyrfalcons in Alaska: Immune Response Implications. María Teresa Reinoso-Pérez
6	Geographical distributions and avian host specificity in <i>Haemoproteus</i> lineages: A review of two databases. Misa Shimizu
7	New member of <i>Plasmodium</i> (<i>Vinckeia</i>) and <i>P. cyclopsi</i> discovered in bats in Sierra Leone – nuclear and complete mitochondrial genome analyses. Oskar Werb (ONLINE)
8	Ethnoecological analysis of malaria in two indigenous communities in the Colombian Amazon María Camila Aroca Aguilera

9	Haemosporidian parasites in birds of forest enclaves in semi-arid savanna in the northeast of Brazil. Pedro Pereira
10	Molecular Characterization of <i>Haemoproteus gallinulae</i> (AMPHO01) from White-breasted Waterhens (<i>Amaurornis phoenicurus</i>) in Thailand. Phirom Prompiram (ONLINE)
11	Molecular detection of hemoparasites (Apicomplexa: Haemosporida) in blood and tissue samples in bats from Valle del Cauca. Christian Cabrera-Ojeda
12	Towards the curation of host-symbiont interactions in the future. Ricardo Jorge Lopes
13	Blood parasites of <i>Pleurodema thaul</i> (Anura: Leptodactylidae) in Chile. Rocío Sanhueza-Caba
14	Hematological response to Haemosporidia parasites in understory avian assemblages across different land use types and seasons in a cloud forest ecosystem in Veracruz, Mexico. Sandra Rocío Hernández Soto
15	Preliminary investigation of avian blood parasites in trans-Saharan migrants at a desert stopover site. Tabe Tiku Regine Claire
16	Prevalence of hemosporidian parasites in birds from forested areas surrounding the Magdalena River in Santander, Colombia. Tiana Beltran
17	Characterization of <i>Haemoproteus macrovacuolatus</i> in a new host, <i>Tadorna ferruginea</i> (Anseriformes). Vitória Loiola (ONLINE)
18	Avian haemosporidian infection prevalence in California as a reflection of environmental conditions. Wilmer Amaya-Mejia

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New data on the Haemosporida of South Vietnam birds.

Yana Dombrovskaya

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