

BSP Spring Meeting - Dundee 2017

Monday April 3rd Apex Hotel & University of Dundee (Dalhousie)

Plenary I – (Apex Hotel)

09:00	Being a tapeworm and growing like cancer – how does it work (Klaus Brehm)			
09:40	The evolutionary history of structure and function of the African trypanosome haptoglobin haemoglobin receptor (Mark Carrington)			
10:20 – 11:00	<i>Tea and Coffee Break</i>	<i>(Note: assistance available for transfer to Dalhousie)</i>	<i>Tea and Coffee Break</i>	<i>(Note: assistance available for transfer to Dalhousie)</i>
	Drugs I - (Apex 1)	Tropical Parasitology I - (Apex 2)	Public Understanding of Science I - (Room 1 Dalhousie)	In the field I- (Room 2 Dalhousie)
11:00	DNDi – bringing new treatments to neglected (Charles Mowbray)	Sulphadoxine-Pyrimethamine and Amodiaquine resistance markers in sub Saharan Africa (Khalid Beshir)	From Blantyre to Blantyre (Paul Garside)	Human trypanotolerance, asymptomatic carriage and animal reservoirs in the context of gambiense HAT elimination (Bruno Bucheton)
11:30	Optimising Treatment for Human Filariasis: The importance of translational models and human dose predictions.	Inhibiting ATG8-ATG3 Protein-Protein interactions in Plasmodium falciparum: targeting autophagy for drug development. (Ibrahim Ali)	Partnerships for achieving health and education sector goals through school based platforms (Laura Appleby)	Identifying seasonal changes in gastrointestinal nematode communities in feral sheep using next generation sequencing (Alexandra Chambers)
11:45	(Stephen Ward)	Understanding the relationship between egg and antigen based diagnostics of Schistosoma mansoni infection post treatment (Joaquin Prada)	Engaging students to enhance the parasitology curriculum in schools (Tansy Hammarton)	Variations in VL burden, mortality and the pathway to care within Bihar, India: Hotspots and the role of socio-economic differences (Sarah Jervis)
12:00	Profiling putative flukicide targets uncovers flatworm-expanded GPCR clusters in Fasciola hepatica (McVeigh Paul)	Genetic diversity of Schistosoma japonicum and its intermediate host Oncomelania hupensis in China (Pin Nie)	The BSP and public engagement: future plans (Helen Price)	Giardia duodenalis and Cryptosporidium parvum infection status among migrant workers in Peninsular Malaysia (Siti Nursheena Mohd Zain)
12:15	Multi-strain investigations of the Copper/Zinc superoxide dismutase 1 gene as a marker for resistance/susceptibility in Biomphalaria glabrata snails. (Kehinde Sowunmi)	Have some African countries already reached the World Health Organization targets for the control or elimination of schistosomiasis? (Arminder Deol)		
12:30 -14:00	<i>Lunch Break (Apex Hotel)</i>	<i>Lunch Break (Apex Hotel)</i>	<i>Lunch Break (Apex Hotel)</i>	<i>Lunch Break (Apex Hotel)</i>
	Drugs II - (Apex 1)	Malaria I - (Apex 2)	Diversity I - (Dalhousie 1)	In the field II - (Dalhousie 2)
14:15	The Development of DDD853651; a preclinical candidate for the treatment of Visceral Leishmaniasis (Michael Thomas)	Expansion of repetitive sequences and generation of protein targeting modules in exported Plasmodium proteins. (Andrew Osborne)	Advances in understanding variant antigen diversity in natural African trypanosome populations. (Andrew Jackson)	Immuno-epidemiological investigations into immunity to schistosomes. (Shona Wilson)
14:45	Metabolomics analysis of ozonide-treated Plasmodium falciparum reveals disruption of haemoglobin catabolism (Carlo Giannangelo)	Stress, sirtuins and severe malaria (Linda Anagu)	Ageing and Susceptibility to Parasites (Tom Little)	Which diagnostic to use and why? New insights into intestinal schistosomiasis along the shoreline of Lake Albert, Uganda (Hajri Alshehri)
15:00	CalcuSyn-based drug interactivity studies to define synergistic anti-malarial combinatorial regimes for Emetine dihydrochloride (Muna Abubaker)	Molecular and functional characterization of a new regulator of Ser/Thr Protein Phosphatase type 1 in Plasmodium falciparum (Thomas Hollin)		Epidemiology of gastrointestinal helminth parasites in Scottish red deer (Greg Albery)

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15:15	Antimalarial Drug Discovery: Exploring the MEP Pathway (Neil Berry)	Charting the transcriptional profile of gametocytogenesis in Plasmodium by AP2-G overexpression. (Katarzyna Modrzynska)	Population genomics of Leishmania donovani: from macroevolution to direct sequencing of clinical samples (James Cotton)	Variation in parasite burden and immune function during reproduction in wild Soay sheep (Adam Hayward)
15:30	Highly sensitive rapid affinity sensor for malaria detection of PfHRP 2 and LDH (Aver Hemben)	Identification of candidate transmission-blocking antigen genes in Theileria annulata and related vector-borne apicomplexan parasites (Stephen Larcombe)	Comparative analysis of Stramenopile genomes reveals patterns of functional streamlining in Blastocystis hominis (Ross Low)	Predictive value of Ov16 antibody prevalence in different sub-populations for elimination of African onchocerciasis (Luc Coffeng)
15:45 – 16:15	<i>Tea and Coffee Break</i>	<i>Tea and Coffee Break</i>	<i>Tea and Coffee Break</i>	<i>Tea and Coffee Break</i>
	Drugs III - (Apex 1)	Malaria II - (Apex 2)	Diversity II - (Dalhousie 1)	Worms I - (Dalhousie 2)
16:15	A Multi-Stage Preclinical Candidate for the Potential Treatment of Malaria (B Baragana)	Host cell and parasite determinants of Plasmodium sporozoite entry into hepatocytes. (Olivier Silvie)	Mastigamoeba balamuthi and Entamoeba histolytica: So similar yet so different. (Jan Tachezy)	A systems biology approach linking genetic, epigenetic and holobiont inheritance to understand rapid adaptation of parasitic flatworms (Christoph Grunau)
16:45	Local production of a liquid direct agglutination test as a sustainable measure for control of Visceral Leishmaniasis in Sudan. (Hussam Osman)	From force generation to substrate attachment: new functions for the acto-myosin A motor complex in Toxoplasma gondii (Maria Fernanda Latorre-Barragan)	2b-RAD genotyping for population genomic studies of Chagas disease vectors: Rhodnius ecuadoriensis in Southern Ecuador (Luis Hernandez)	Host-helminth-microbiota interactions in Veterinary species (Laura Peachey)
17:00	Activation of bicyclic nitro-drugs by a novel nitroreductase (NTR2) in Leishmania (Susan Wyllie)	Exploring the invasion-blocking activity of chemically-modified and low molecular weight heparins and plant-derived polysaccharides against the human malaria parasite Plasmodium falciparum (Muqdad Hmoud)	Endosymbiosis, origins and gene expression in the photosynthetic protist Euglena gracilis (ThankGod Ebenezer)	RNA-Protein complexes involved in spliced leader trans-splicing in Nematodes could serve as a target for novel anthelmintic drugs. (Rotimi Fasimoye)
17:15	CNS Infection with African trypanosomes: mixed messages from the CSF (Jerry Sternberg)	Alterations in the neurovascular unit of the blood brain barrier in cerebral malaria using an in vitro HBEC-astrocyte tandem model (Nana Efua Andoh)	Genetic variation in potential Giardia vaccine candidates cyst wall protein 2 and a1-giardin (Matej Radunovic)	Developmental regulation of miRNA secretion in the filarial nematode Litomosoides sigmodontis (Juan Quintana)
17:30	The Odyssey of pro-trypanocides: the oxidative activation of the aminomethyl benzoxaboroles (Ning Zhang)		VSGs: 'you'll never express alone'. MISP, a family of metacyclic invariant surface proteins in trypanosomes (Aitor Casas-Sanchez)	Neoblast-like cell dynamics and growth in the liver fluke Fasciola hepatica (Erica Gardiner)
18:00	Poster Session (EVEN Poster Numbers)			
20:00 +	Young Parasitologists Party			
Tuesday April 4th Apex Hotel & University of Dundee (Dalhousie)				
	Plenary II - (Apex Hotel)			
09:00	Immunology informing malaria prevention, treatment and control (Eleanor Riley)			
09:40	The complexity and the simplicity of host-Plasmodium interactions (Maria Mota)			
10:20 – 11:00	<i>Tea and Coffee Break</i>		<i>(Note: assistance available for transfer to Dalhousie)</i>	

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	Molecular Cell biology I - (Apex 1)	Epidemiology I - (Apex 2)	Veterinary & Ecology I - (Dalhousie 1)	Worms II - (Dalhousie 2)
11:00	Trypanosoma brucei metabolism is under circadian control (Luisa Figueiredo)	The importance of parasite density in malaria transmission (Thomas Churcher)	Progress with understanding the trout-PKD interaction: host immunity and parasite gene expression. (Christopher Secombes)	Trials and tribulations: the highs and lows of nematode sub-unit vaccine development (Jacqui Matthews)
11:30	Glycosomal hypertrophy and the response to suramin in African trypanosomes (Martin Zoltner)	Cross-border malaria and new challenges to Thai national malaria control programme (Wirichada Pan-ngum)	Mapping triclabendazole resistance in Fasciola hepatica: what do we know so far? (Jane Hodgkinson)	Profiling the surface-exposed proteins of Fasciola hepatica extracellular vesicles (Eduardo de la Torre Escudero)
11:45	Defining exosome function in Theileria annulata infection: a parasite which drives host cell metastasis (Victoria Gillan)	Contribution of Plasmodium knowlesi to multi-species human malaria infections in North Sumatera, Indonesia. (Colin Sutherland)		Probing the pathways of extracellular vesicle biogenesis in helminth parasites (Adam Bennett)
12:00	A putative ATP/GTPase influences virulence of Leishmania mexicana (Vyacheslav Yurchenko)	Assessing the impact of intervention strategies against Taenia solium cysticercosis using the EPICYST transmission model (Matthew Dixon)	Upsetting the protease/anti-protease balance could be a novel vaccine strategy against Fasciola hepatica infection (Orla Drysdale)	Genetic variation associated with parasite-specific immune responses in a wild mammal population (Alexandra Sparks)
12:15		Identifying priority areas for sleeping sickness control: Spatial modelling in the Democratic Republic of Congo (Kat Rock)	Innate immune response in Intracellular parasitic (Neospora caninum) infection of Cattle (Parul Sharma)	A Host ration affects plerocercoid growth in three-spined sticklebacks infected with Schistocephalus solidus (Cestoda: Diphyllbothriidae) (Awad Hosan)
12:30 - 14:00	<i>Lunch Break (Apex Hotel)</i>	Wormbase workshop - (Apex Hotel)	<i>Lunch Break (Apex Hotel)</i>	<i>Lunch Break (Apex Hotel)</i>
	Molecular Cell biology II - (Apex 1)	Epidemiology II - (Apex 2)	Veterinary & Ecology II - (Dalhousie 1)	Worms III - (Dalhousie 2)
14:15	Biology of malaria transmission in an era of elimination (Matthias Marti)	TBA (George Christophides)	Host-parasite interactions in the era of next-generation sequencing technologies (Cinzia Cantacessi)	Trematode-designed immunomodulatory molecules with therapeutic potential. (John Dalton)
14:45	The putative structure of Trypanosoma congolense strain IL3000 mini-chromosomes (Ali Abbas)	Disease spread in age structured populations with maternal age effects (Jessica Clark)	Zoonotic disease epidemiology in multi-host systems (Sandra Telfer)	Growth factor-induced gain-of-resistance against Schistosoma mansoni infection in the snail host. (Emmanuel Pila)
15:00	Single-molecule analysis reveals that DNA replication dynamics vary across the course of schizogony in the malaria parasite Plasmodium falciparum. (Catherine Merrick)	Risk factors for giardiasis in south western Sydney: A case-control study (John Ellis)		Early lymphatic remodelling following filarial infection is promoted by host Th2 adaptive immune responses (Julio Furlong-Silva)
15:15	Role of a cytosolic and a membrane-bound carbonic anhydrase of Leishmania major in combating acid stress (Mazharul Abbasi)	Marine Pomphorhynchus laevis: analysis and appraisal of UK status. (Alastair Lyndon)	Genomics of sex, drugs, and recombination in the gastrointestinal nematode, Haemonchus contortus (Stephen Doyle)	Into the unknown: exploring proteins of unknown function in Schistosoma mansoni (Iain Chalmers)
15:30	Control of allelic exclusion by a trypanosome 'Vex Histone Chaperone' complex (Joana Faria)	Epidemiology and evolution of zoonotic schistosomiasis in West Africa (Elsa Leger)	Markers of anthelmintic resistance in gastrointestinal parasites of ruminants (Jennifer McIntyre)	Effects of host sex and body size on Schistocephalus infection susceptibility and plerocercoid growth in three-spined sticklebacks (Rana Shalal)
15:45 – 16:15	<i>Tea and Coffee Break</i>	<i>(Note: assistance available for transfer between Dalhousie</i>		

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16:15 - 19:00	Poster Session (ODD Poster Numbers) - (Apex Hotel)	
19:00 - Late	BSP Gala event and Ceilidh - (Apex Hotel)	
Wednesday April 4th (Apex Hotel)		
Wright Medal Lecture - (Apex Hotel)		
09:30	Comparisons of parasite genomes to find genes associated with parasitism and exploitable vulnerabilities (Matt Berriman)	
10:30	BSP AGM - (Apex Hotel)	
11:00 - 11:30	<i>Tea and Coffee Break</i>	<i>Tea and Coffee Break</i>
	Molecular Cell biology III - (Apex 1)	Veterinary & Ecology III - (Apex 2)
11:30	Deciphering the 3D architecture of the Trypanosoma brucei genome (Nicolai Siegel)	Parasitic diseases and their cost to aquaculture (Giuseppe Paladini)
12:00	Exploring the connectivity between Leishmania mexicana amastigotes and their host cell through 3D electron microscopy (Valli Jessica)	Tick and tick-borne disease risk for dogs in the UK (Richard Wall)
12:15	The ZC3H39/40 RNA-binding complex and control of an electron transport chain regulome in African trypanosomes (Anna Trenaman)	
12:30	Structural and functional studies of Trypanosoma brucei MORN1 protein (Sara Sajko)	Eigenanalysis provides insights into the innate immune response induced in commercial broilers following Eimeria tenella provoked coccidiosis (Matthew Nolan)
12:45	A decrease in mitochondrial membrane potential may be associated with diminazene resistance in Trypanosoma congolense. (L V Carruthers)	Sea Lice effect on wild Atlantic salmon fecundity (Roman Susdorf)
13:00	<i>Lunch & Conference close.</i>	<i>Lunch & Conference close.</i>