



NEWSLETTER

Volume 30 Issue No.1 March 2019

Probably parasitology



IMAGE: Andy T. Wood, Mic Smout, Claudia Cobos and Matt Kirshen
at the ASP-funded Probably Science event held in Cairns

Australian Society for Parasitology Annual Conference

Adelaide 2019

Monday 8th to Thursday 11th July 2019.

2019 ASP Annual Conference will be held at the Adelaide Convention Centre from Monday 8 – Thursday 11 July. The deadline for Early-bird registration and abstract submission is 31st March 2019. To be eligible for a 2019 ASP Student Conference Travel Grant you must have a valid ASP Student membership by 10 April 2019 and meet all of the other criteria.

Please contact the Conference Coordinator, Lisa Jones by email (lisa.jones1@jcu.edu.au) or telephone +61 (0)7 4232 1311 with any queries.



ASP Annual Conference

Adelaide 2019

parasite.org.au/2019conference

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Dear Members,

The revised (2018) ASP Constitution, which was presented, discussed, voted on and passed at the Society's 2018 AGM, was submitted to the Queensland Government's Office of Fair Trading. We received correspondence from the Office, advising that, to be properly compliant with legislation, we are required to replace "two-thirds majority" with "three-quarters majority" in items related to passing amendments to our Constitution (notwithstanding that we have been effectively allowed to operate on a the-thirds majority since incorporation of our Society in Queensland in the 1908s). Hence, the following amendments have been made:

Item 8 (6); "Fellows will be elected by a three-quarters majority vote of Council at

the first Council Meeting scheduled after the receipt of a nomination(s) by the Secretary. Fellows will be presented with a certificate at the first General Meeting after their election and shall pay no annual membership fees thereafter but shall enjoy all the rights and privileges of Ordinary Members including the right to vote."

Item 30 (2); "The following business may also be conducted at each Annual General Meeting of the Society:

(a) receipt of reports from Editors, Convenors, Archivists, Secretariat and subcommittees; and

(b) review and debate of any action or decision by the Council, with any such action or decision subject to change by an affirmative vote of three-quarters of the members present and eligible to vote,

From the President's Desk continued

provided also that Society action does not involve commitment, obligation, or payment of funds on which the Council has already acted in accordance with its duly invested authority and responsibility.

Item 38 (2); "(2) A by-law may be set aside by a three-quarters majority vote of members at a general meeting of the Society."

Item 39 (1); "(1) Subject to the Act, these rules may be amended, repealed or added to by a special resolution carried by a three-quarters majority at a general meeting."

Item 45 (1); "The Society shall continue until:

(1) a special resolution for its voluntary winding-up is carried by an affirmative vote of three-quarters of financial members of the Society by postal ballot or at a general meeting convened for that purpose, with due regard to quorum, and subject to a copy of the special resolution being lodged with the chief executive within 1 month of the passing of that special resolution under Part 10 of the Act; or

These amendments have been made in the full copy of the final proposed new (2019) Constitution that is included in this Newsletter. This serves as official notice that this amended Constitution will be presented, discussed and voted on at the Annual General Meeting on July 11, 2019 at the Adelaide Convention Centre. As an adjunct to the 2019 Constitution, members are referred to Volume 29, Issue No.2, July 2018 edition of the Society's Newsletter for the previously provided explanation of all the changes incorporated into the new Constitution. <https://www.parasite.org.au/publications/newsletters/>

At the 2018 AGM, a new set of Principles, By-Laws and Guidelines was also presented, voted on and accepted. However, after discussion of Item 1 in this document, it was agreed that Council would consider rewording Item 1. This has been completed, with the resulting new Item 1 and additional Item 2. These will be tabled for discussion at the Annual

General Meeting on July 11, 2019 at the Adelaide Convention Centre. A full copy of the new (2019) Principles, By-Laws and Guidelines is included in this Newsletter. "

Our 2019 ASP Annual Conference will be held from the 8th -11th of July at the Adelaide Convention Centre. Registration and abstract submission is now open, and early bird closes 31st of March 2019 <https://www.parasite.org.au/2019conference/>

As a result of the changes to the constitution, the ASP will now have an elected Student Representative position on Council. We are calling for nominations for student representatives (which must be agreed and endorsed by the candidate and the members who nominated him or her) to be submitted in writing to the Secretary at least one month before the 2019 Annual General Meeting.

Professor Barbara Nowak will be representing the ASP at the annual Science and Technology Australia (STA) President & CEO Forum on the 27th of March in Sydney. Any suggestions for major issues that should be addressed for parasitology, please contact Barbara directly on b.nowak@utas.edu.au

Congratulations to Prof. Nick Smith who received the Bancroft Mackerras Medal (BMM) at the 2018 AGM and delivered a wonderful BMM oration. Nick was also recently made a Member of the Order of Australia for "For significant service to science as a parasitologist and immunologist, and to higher education". Well done Nick.

Congratulations also to Prof. Don McManus who has been awarded the prestigious Sornchai Looareesuwan Medal in 2018 for his distinguished achievements in the prevention and treatment of schistosomiasis, echinococcosis and soil transmitted helminthiasis.

Sadly Dr Lloyd Whitten, who worked as a parasitologist at Wallaceville Research

Centre in New Zealand, passed away on September 9, 2018.

ASP Outreach: Read all about the fantastic outreach events in the newsletter.

Many thanks to all our members for all their hard work and as always a big thank you to Lisa for everything.

Best regards,

**Una Ryan
President of the ASP**

www.parasite.org.au
www.facebook.com/ASParasitology
www.twitter.com/AS_Para

New Post Office Box

A new post office box for the ASP has been opened in Cairns North. The previous post office box (PO Box 60 Herston) won't be renewed but the redirection will be extended. Eventually when we stop the redirection service this will save the ASP \$1000 per year.

The new postal address is:

**Australian Society for
Parasitology
PO Box 480
Cairns North QLD 4870**

Nick Smith awarded the Bancroft-Mackerras

In recognition of his outstanding contribution to the science of parasitology, that includes both public education and vaccine development, Professor Nick Smith was awarded the Bancroft-Mackerras Medal for Excellence at ASP's 2018 conference in Melbourne.

Nick Smith has dedicated an entire career to finding out what makes parasites tick and how to stop them spreading their misery which is fortunate for Australian biosecurity and the increasing number of Australians contracting parasitic infections on their travels - or perhaps, more surprisingly from domestic cats.

Professor Smith, who returned to UTS in

2018 to lead the Biology and Biotechnology discipline in the Faculty of Science, helped establish the Australian Network for Parasitology, bringing together over 400 researchers from 30 Australian universities and research institutes.

"Although Australia has an excellent history of parasitology research the establishment of this network with ARC and NHMRC funding in 2004 was significant recognition of the burden of parasites in both human and agricultural terms and for the need to focus on understanding them and developing new ways to control them," Professor Smith says.

Professor Smith says that previous research to help develop a vaccine against *Eimeria* - the most common and costly disease of the poultry industry - shows how vital collaboration is at national and international levels including with industry.

This previous work has informed and inspired efforts on another microscopic protozoan parasite, *Toxoplasma gondii*, that Professor Smith and an international team of researchers are now honing in on. This is where cat lovers might want to look away, but shouldn't.

"*Toxoplasma gondii* is one of the world's most damaging animal to human infections, affecting around 30% of the world's population. For most, it is harmless, but it can cause serious disease including encephalitis, abortion, stillbirth, hearing and sight loss, and mental disorders. It is transmitted by cats, and finds its way into our food chain via infected meat and contaminated water.

"*Toxoplasma* has a complex lifecycle but sexual reproduction of *Toxoplasma* occurs only in cat intestines. All human infections result directly or indirectly from



Below: Professor Nick Smith is presented with the Bancroft-Mackerras Medal by Professor Una Ryan, Professor of the ASP.

Nick Smith awarded the BMM continued

a cat shedding oocysts, the egg-like stage of the organism, in its faeces, into the environment," Professor Smith says.

Oocysts contaminate soil, crops and water. Sheep, cattle, pigs and chickens get infected by eating grass or grain, or drinking water that has been contaminated with oocysts. The parasite spreads and stays for the life of the host inside cysts in brain and muscle cells.

Thanks to the latest genetic technologies, Professor Smith and his colleagues have discovered that *Toxoplasma* produces a unique suite of proteins during its development in cats, these proteins are potential targets for a vaccine that blocks oocyst shedding.

"Next steps include testing combinations of these proteins to immunise cats and prove that we can develop a vaccine that blocks transmission of this highly significant parasitic disease," Professor Smith says. "I feel incredibly humbled, almost embarrassed to win this award not just because taking a place beside

the past winners, all of whom are superb parasitologists, is a bit daunting but because of other great and inspiring parasitologists, who I've admired so much over the years, who have been under-recognised."

Professor Una Ryan, the current President of the Australian Society for Parasitology says the Bancroft-Mackerras Medal is only presented when "a suitable candidate is recognised".

"Professor Smith was an extremely worthy recipient of the medal because of his major contributions to parasitology in several areas. These include his tireless efforts to create a cohesive national research focus for parasitology and promote our outstanding young researchers as well as his own research on developing vaccines to block transmission of important parasites. His Bancroft Mackerras Medal oration demonstrated the elegant and cutting-edge research that he is well known for and the Australian Society for Parasitology is very grateful for his continuing and outstanding contributions to parasitology."

Key current funders for Professor Smith's work include The Swiss Commission for Technology and Innovation and the NHMRC. Previous important funders were Bellberry Ltd and the Driving Biological Discoveries Scheme of the National Institutes of Health, USA.

Text courtesy of the University of Technology Sydney. <http://newsroom.uts.edu.au/news/2018/10/bit-ick-life-saving-medal-leading-research-parasites>

Congratulations to Professor Nicholas Smith who was recognised in the Australia Day 2019 Honours List. Nick received an Order of Australia as a Member (AM) in the general division for his significant service to science as a parasitologist and immunologist, and to higher education. Nick will receive his medal in April 2019.

RESEARCHER NEWS

First meta analysis study on Liver Fluke Vaccine published

Charles Darwin University's **Dr Rama Jayaraj** and colleagues have published a pioneering paper in the field of molecular parasitology.

Jayaraj, R., Kumarasamy, C., Norbury, L., Piedrafita, D., & Smooker, P. (2019). Protective efficacy of liver fluke DNA vaccines: A systematic review and meta-analysis: Guiding novel vaccine development. *Veterinary Parasitology*. <https://doi.org/10.1016/j.vetpar.2019.01.010>

Previous studies in this field have been small-scale animal studies for single DNA vaccine candidates. However, no study has compared and contrasted these individual

vaccine candidates and their efficacies with each other. This Charles Darwin University study with Professor Peter Smooker and Dr Luke Norbury, RMIT University, Associate Professor David Piedrafita, Federation University and Mr Chellan Kumarasamy, The University of Adelaide, goes a step beyond previous literature reviews and instead, assesses these vaccine candidates quantitatively using the systematic review and meta-analysis process as established in PRISMA guidelines. This allows the study to stand by itself as well have a lasting impact due to the standard guidelines that have been stringently followed. The results of this study are inconclusive, i.e. no current single vaccine candidate is significantly better than the other is, however, the results help to identify the possible vaccine candidates that may lead

to functional DNA vaccines in the future. This study supports ongoing research in this field by giving perspective, regarding future targets and direction of *Fasciola* DNA vaccine development.

Dr Jayaraj invites researchers looking for effective assistance with their prospective systematic review and meta-analysis research to contact him at rama.jayaraj@cdu.edu.au

Award for Professor Don McManus

Professor Don McManus was recently presented with the Sornchai Looareesuwan Medal at a ceremony during the Joint International Tropical Medicine Meeting held in Bangkok, Thailand, during December 2018.

The Sornchai Looareesuwan Medal Committee, chaired by Prof. Dr. Srivicha Krudsood, was convened on September 13th, 2018 to review the list of nominations for the 2018 Sornchai Looareesuwan Medal. In contention were ten highly deserving nominees from seven international institutions. After extensive review, discussion, and consideration, The Sornchai Looareesuwan Medal Committee, together with the Advisory

Committee, resolved to award the Sornchai Looareesuwan Medal 2018 to one outstanding nominee.

The 2018 winner is Professor Donald Peter McManus, Senior Scientist from the Molecular Parasitology Laboratory, QIMR Berghofer Medical Research Institute, Brisbane, Australia for his distinguished achievements in tropical medicine research.

Professor McManus has an outstanding reputation in respect of the excellence of his research and his distinguished sustained contributions to the field of eliminating parasitic helminth diseases. He has spent the past nearly 50 years' research to find the way to prevent and control helminthiasis of human and animals. He was recognized as a key of discovered virulence molecules derived from *Schistosoma japonicum*

and others that may advantage for drug and vaccine development. His visionary approach continues to link basic and applied research, and his commitment to international field and laboratory studies with his multi-skilled team has translated into workable, innovative and practical control strategies. With decades of transformative-research contributions, Professor McManus's ultimate goal is the global elimination of diseases which are the cause of extensive human suffering.

Our sincere congratulations to the winner of the Sornchai Looareesuwan Medal 2018.

Citation text courtesy of the Sornchai Looareesuwan Medal Committee



Vale Lloyd Whitten (1916-2018)

Born on 18th August 1916, Lloyd Whitten was an Australian veterinary parasitologist who worked predominantly in New Zealand. Following the sad news of his death on 9th September 2018, we reproduce here an edited version of Bob Gumbrell's tribute on occasion of Whitten's 100th birthday in 2016.

Lloyd Whitten was an Australian who graduated from the Faculty of Veterinary Science at the University of Sydney, worked for 2 years after graduation at the then CSIR at Sydney in parasitism before joining the staff of the Wallaceville Animal Research Station in New Zealand in 1941 where he continued his work in this field. He spent most of his career there, apart from a period in Canada where he studied and obtained his PhD and a FAO secondment to Turkey in 1965-7 to establish a Sheep and Goat Disease Laboratory. After his formal retirement he taught at a University in Kuala Lumpur.

Lloyd was at the start of several scientific and professional groups – he was closely associated with the New Zealand Veterinary Journal at its inception and was its Assistant Editor with Jim Newhook from 1952 to 1969 and its Editor from 1970 to 1976. He also edited the 1971 edition of Diseases of Domestic Animals in New Zealand, a New Zealand Veterinary Association (NZVA) publication. He is a Foundation Fellow of the then Australian College of Veterinary Scientists, serving as its President in 1973-74 and a foundation member of the New Zealand Society of Animal Production.

In recognition of this work he was made a Life Fellow of the Australian and New Zealand College of Veterinary Scientists, a Life Member of the New Zealand Society of Animal Production (1976) and a Life Member of the NZVA.



On the occasion of his 100th birthday, the association honoured Lloyd with a Celebratory High Tea at The George in Christchurch. The function was organized by the Retired Veterinarian's Branch and the Canterbury Branch of the NZVA. It was attended by the CEO Julie Hood although Board member (and family friend) Alison Dewes who was to attend was fogbound in Hamilton. Her sister Lorna Revis from Christchurch, also a veterinarian, spoke of the close family ties between the Whittens and the Dewes (their father, Harry Dewes, was a very well-known veterinarian in the Waikato and President of the NZVA in 1974). A letter of congratulation and recognition from the Professor Rosanne Taylor, Dean of the Faculty of Veterinary Science at the University of Sydney was also presented.

While Lloyd's scientific work has been extensive and significant, people also remember him for his sense of humour, his ability to recount delightful stories of people's adventures and misadventures,

including his own, and all the little foibles of life. He still entertains visitors with these stories.

A typical Whitten witticism is recounted by a colleague in that certain people, perhaps detecting a slight Australian twang have asked Lloyd: "Have you lived in New Zealand all your life?" To which his answer was always: "Not yet!"

Four graduates from the Faculty of Veterinary Science, University of Sydney – standing from the left: Bob Gumbrell (1964), Alan Hunter (1964), Selwyn Dobbins (1962); seated Lloyd Whitten (1938).

Probably Science

In February 2019, Dr Michael Spout and Dr Claudia Cobos of James Cook University joined hosts Andy T. Wood and Matt Kirshen for a live recording of the popular podcast Probably Science in Cairns. The Probably Science Australian tour is funded jointly by the ASP and Inspiring Australia. Michael Smout reports on the event.

We kicked off the tour with a show in Cairns, much to our delight we got a write up in the Cairns Post newspaper and gave away tickets on ABC FNQ breakfast radio. Held by the "Cairns Dinner Theatre" on February 2nd, the show kicked off at 3pm. The show's hosts, comedians Matt Kirshen and Andy T. Wood, opened festivities with a quick chat about the show, their history and the lab tours from the previous night through the Australian Institute of Medical Research laboratories, the Mosquito Research Facility and the Eduquarium at James Cook University. As a surfer the Irukandji jellyfish sting particularly fascinated/terrified Andy with its 24-48 hours of pain combined with a crushing feeling of impending doom.

Then Dr Michael Smout took the stage for his 3 minute Famelab performance that eviscerates "Teddy", a 80cm tall teddy bear



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to reveal a liver with a bright yellow plush "Larry" the liver worm and the hairy green cancer caused by Larry. Then he covers the potential benefits of worm spit as a potential wound healing agent.

Dr Claudia Cobos Caceres was next up on stage and introduced the idea that while peptides are bad for AFL players to inject as performance enhancers, they can be used to create new medical treatments. She discussed her research that involves sunflower seed peptides helping from "Gum to Bum" for intestinal bowel disease patients. Therapeutic peptides can be very unstable, but they can be made stable and far more effective by stitching them into the circular peptide commonly found in

sunflower seeds.

Then for the main show, Michael and Claudia chatted to hosts Matt and Andy about the nitty gritty of their work. As the resident expert in the audience, Olivia Rowley was also called upon to help clarify specifics of venomous animals when they arose in conversation. Inspired by the laboratory tour of the AITHM mosquito research facility a great deal of discussion also involved the wolbachia mosquitos used to protect the far north from dengue virus transmission.

We thank the ASP and Inspiring Australia for their generous support, without which these shows would not have happened.



Above: hosts Andy T. Wood and Matt Kirshen. Centre: Claudia Cobos. Far right: Michael Smout



Scoopapoop in FNQ

Michelle Power (Macquarie) and Kate Miller (JCU) recently visited Innisfail State College as part of a Citizen Science project addressing antibiotic resistance in wildlife.

Michelle Power (Macquarie University) recently extended her Scoop a Poop Citizen Science project to Innisfail in far north Queensland. Citizen Science projects allow members of the public to contribute to research projects run by scientists. The Scoop a Poop Citizen Science project aims to track the spread of antibiotic resistance to wildlife by collecting and analyzing bacteria present in possum poo.

Michelle and Kate Miller (James Cook University, Cairns) visited Innisfail State College as part of the STEM Professionals



in Schools program and joined a Year 10 Science class being taught by Markus Honnef. Michelle explained about the problem of antibiotic resistance and the scope of the program then used plasticine models to demonstrate the difference

between possum poo and poo from other animals. Once the students knew what to look for, the class ventured outside looking for poo samples. We didn't find any possum samples but did manage to find some other native animal samples. The students enjoyed the lesson, particularly the outdoor component, and some even took home extra kits to look for samples in their gardens.

Michelle is looking for extra locations to expand her project so if anyone is interested in helping Michelle with this, please contact her for more information or visit the website <http://scoopapoop.org>

Images courtesy of Kate Miller



GTAC : Frontiers in Parasitology

Frontiers in Parasitology, a collaborative program run by the ASP and the Gene Technology Access Centre (GTAC), took place during the ASP's annual conference in St Kilda, August 2018. Tony Tony Chiovitti (Deputy Director GTAC) reports.

The program enabled visiting school students to participate as conference delegates, acquiring experience in a suite of activities that constitute a contemporary scientific conference, build an understanding of the varied practices of parasitology, and gaining exposure to the medical, societal, and economic consequences associated with parasitism. A key aspect of the program was to provide attending students with the opportunity to interact directly with conference scientists.

The program comprised the following sessions:

Power Unseen – The Parasite Circus

The program was launched by Assoc. Prof. Alex Maier (Australian National University) who introduced students to some of the biological adaptations of parasites through an entertaining analogy about the "circus feats" of parasites. Students were also enthralled to get acquainted with Assoc. Prof. Maier's pet leeches.

Veterinary Pathology Workshop

Students then took part in a hands-on workshop on veterinary pathology. Working in small groups of 6 students with a scientist mentor, students assessed the clinical signs of disease in sheep and then used microscopy to conduct faecal egg counts and diagnose a *Haemonchus contortus* infection. Students closed the workshop by formulating strategies to manage the health of the flock.

Conference Poster Session

Attending students circulated through the conference venue, meeting three

nominated conference delegates to discuss their journey into parasitology and the research outlined in their posters:

- Isabelle Grace Henshall (University of Adelaide) on "Growth inhibition of the zoonotic human malaria parasite *Plasmodium knowlesi* by heparin-like molecules."
- Tanapan Sukee (University of Melbourne) on "Phylogenetic relationships among *Macropostrongyloides* spp. From Australian marsupials based on morphological and molecular criteria"
- Patricia Zajackowski (University of Technology Sydney) on "Epidemiology and associated risk factors of giardiasis in a peri-urban setting in NSW, Australia".

In addition, students participated in a virtual reality exhibition installed by Evan Dekker (Federation University) tracking the locations of parasites inside an animal host and in the surrounding environment.

Colloquium – Impacts of Parasites on their Hosts and the Environment

The program concluded with presentations by Assoc. Prof. Aaron Jex (Walter and Elisa Hall Institute of Medical Research) and Prof. Rebecca Traub (University of Melbourne). Assoc. Prof. Jex gave a captivating exposé of the complex interactions between parasites and their hosts that buttress parasitic life cycles. Prof. Traub provided fascinating insights into the parasitic diseases that were mainstream in developing countries, as well as the cultural and scientific experiences of field parasitologists.

The program ran on Tuesday 25th September 2018 with 24 Victorian students from Years 10-11. Program features included:

- Exposure to an authentic scientific conference
- Oral and poster presentations by

conference scientists

- Virtual reality experience
- Collaboration with practicing scientists
- Use of applied laboratory technologies
- Immersion in contemporary approaches to research in the life sciences
- Catered lunch and refreshments for students and scientists

Participants

A total of 24 students attended the program. The cohort comprised 18 females (75%) and 6 males (25%). Two of the male identified as Indigenous.

Comments submitted as feedback included:

"I understand a lot more about the significance of parasites in our world and how they affect all living organisms. The speeches were all very engaging!"

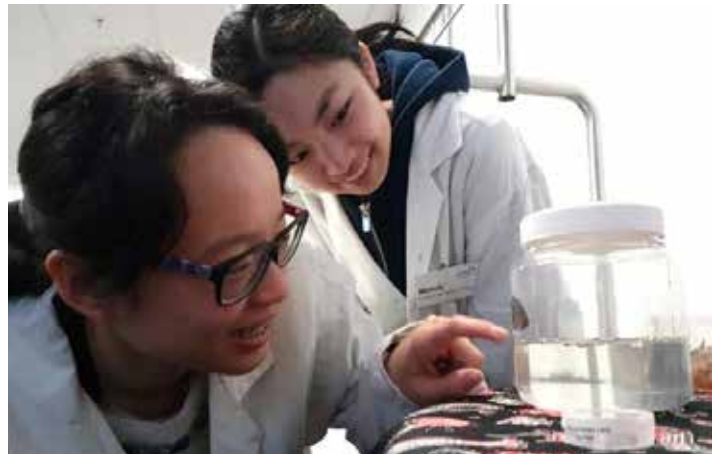
"A really interesting and engaging day that opened my eyes to other fields of science that aren't commonly talked about in school."

"You guys are really nice and interesting – it made the day so much better! "

"It fostered my interest in parasitology and teaches me more about this particular scientific field. I've also gained insights into future research areas. Overall, this has been a marvellous day!"

Students were asked to score their interest in parasitology before and after participating in this program using a scale from 0 ("extremely uninterested") to 5 ("extremely interested"). The mean response showed a score of 2.48 before rising to a score of 3.70 after the program.

GTAC: Frontiers in Parasitology continued



GTAC: Parasites in Focus

Parasites in Focus is a special event program developed and run as a collaboration between the Gene Technology Access Centre (GTAC) and The Australian Society for Parasitology (ASP). This program aims to raise awareness of the societal and economic consequences associated with parasitism through impacts on ecosystem dynamics, agricultural security, and human health. The program also exposes secondary school students to a diverse range of careers that are supported by training in parasitology.

The program was launched with an opening address by leading field parasitologist, Assoc. Prof. Aaron Jex (Laboratory Head, Division of Population Health and Immunity, Walter and Eliza Hall Institute of Medical Research). Aaron introduced students to the diversity of parasites, their adaptations for a parasitic way of life, and their life cycles. Aaron also discussed the impacts of parasites as human pathogens and some of the strategies being used to manage them.

Students then participated in three 60-minute workshops:

Workshop 1: Hooked on Parasites

Working with scientist mentors in the GTAC laboratories, students applied techniques of the veterinary pathologist to diagnosing a parasitic infection of sheep. An assessment of clinical signs, faecal egg counts, and examination of larvae and adult worms led students to deduce the sheep were infected by the nematode, *Haemonchus contortus*. Students concluded by proposing strategies to

manage the health of the flock.

Workshop 2: A Case of Cross-Border Detection

Working in the GTAC laboratories with scientist mentors, students used biotechnology to identify the specific malarial parasite infecting a tourist who had returned from overseas. Applying polymerase chain reaction and gel electrophoresis experiments, students determined the tourist was infected by the deadliest type, *Plasmodium falciparum*. The result is crucial for informing the patient's treatment.

Workshop 3: Parasites Getting it Under Control

Working in the GTAC computer laboratory, students used the computer simulation software, NetLogo, to investigate the effects of various natural enemies on populations of the light brown apple moth, a pest of the grape industry. Evaluation of their mathematical models led students to conclude that the parasitoid wasp, *Trichogramma* was the most suitable biological control.

The program was supported by a contribution from the the ASP. It ran on Friday 26th October 2018 with a total of 75 students and 9 teachers attending. Program features included:

- Immersion in contemporary approaches to research in the life sciences
- Use of cutting edge technologies
- Collaboration with practicing scientists
- Three specialist workshops
- Catered lunch for scientists and teachers

Inspiring students

The program's vision is to inspire Victorian

students to engage with parasitology by showcasing the diversity of research and diagnostic methods used in the field of parasitology. We provided students with a survey to measure whether providing exposure to the technologies and methods used affected their inclination to study parasitology. The survey measured interest and ability. Ability was separated into acquisition of new skills enabling them to use technologies, and whether they gained a working knowledge of the technologies to allow them to analyse results.

Student comments after the event included:

"I learnt a lot of new things about parasites and how they affect us."

"Learned how to use a micropipettor; was a very fun and interesting experience."

"Scientists were really awesome and helpful!"

"Fun experiments, gives a good insight into the research of scientists."

Students were asked to score their interest in parasitology before and after participating in this program using a scale from 0 ("extremely uninterested") to 5 "extremely interested"). The mean response showed a score of 2.56 before rising to a score of 4.13 after the program.

GTAC: Parasites in Focus continued



Employment and research opportunities



Stipend to support a PhD : McFadden Lab, The University of Melbourne

The McFadden Lab has a stipend to support a PhD student for research into

drug resistance and/or gene inheritance in malaria parasites. Applicants will need to meet the requirements for acceptance into the University of Melbourne's PhD programme. Projects investigating mechanisms and transmissibility of drug resistance, inheritance of organelle genomes, or identifying essential genes of the apicoplast are available. The McFadden Lab works with both human malaria parasites (*Plasmodium falciparum*) and rodent malaria parasites (*P. berghei*) and operates a complete life cycle facility able to assay transmission of parasites via mosquitoes. Previous experience with these laboratory systems is not required as full training in how to handle these parasites will be provided.

The stipend does NOT cover course fees applicable to international students, making

it better suited to Australian applicants. Candidates should arrange for two referees' reports attesting to their ability to undertake a postgraduate research project in the McFadden lab to be sent to Prof Geoff McFadden <gim@unimelb.edu.au>. Additionally, all candidates should write a short synopsis (~500 words) of the project they would like to pursue having looked through some of the McFadden Lab's recent published work. The stipend is available for commencement in 2019.

www.geoffmcfadden.com



PhD scholarship available at Murdoch University for an Australian Research Council Linkage project to develop a "gut-on-a-chip"

We are seeking a highly motivated PhD candidate to work as part of a team on an ARC Linkage project (ARC LP170100096) entitled "Development and validation of rapid detection and viability assays for *Cryptosporidium*, *Norovirus*, and *Adenovirus* using a novel gut-on-a-chip".

The project is in collaboration with Dr Mark O'Dea and Dr. Alireza Zahedi from

Murdoch University, Professor Benjamin Thierry from the University of South Australia, Associate Professor Jillian Carr at Flinders University, Dr Paul Monis and Dr Brendon King from South Australian Water, Dr. Andrew Ball from Water NSW, Dr. Duncan Middleton from Seqwater in Queensland and Dr Nicholas Crosbie from Melbourne Water.

Our research team has already developed a miniaturised computer-controlled gut-on-a-chip and has successfully demonstrated that human intestinal cells cultured in our gut-on-a-chip can support infection by *C. parvum*. Using this technology, the PhD candidate will aim to (1) Characterise the optimal conditions to detect, grow and amplify *C. hominis* & *C. parvum* in the gut-on-a-chip, (2) Characterise the optimal conditions to detect and grow norovirus and adenovirus in the gut-on-a-chip, and (3) Validate the gut-on-a-chip as a detection and viability assay for *Cryptosporidium*, norovirus and adenovirus.

The successful candidate will have completed a Masters by research degree or a high level (H1) Honours degree (or equivalent) in the last 5 years that includes training in either Molecular biology,

Biotechnology, Microbiology or Water Science. Previous laboratory experience in cell culture and molecular epidemiology and/or molecular biology is desirable. Demonstrated ability to work under broad direction, exercise initiative in undertaking responsibilities and work effectively as a team member. Well-developed interpersonal skills and the ability to work effectively as a member of an interdisciplinary and collegial team. Demonstrated high levels of written and oral communication skills in English

A Full Time Scholarship will carry a stipend of \$27,082 per year with annual increments and with the potential to apply for 6 months extension.

To apply, interested candidates are invited to send their Curriculum Vitae, a 1-2 page outline of: their research skills, and a summary of their goals for a PhD, along with the names and contact information of three referees to Professor Una Ryan at Una.Ryan@murdoch.edu.au.

Deadline: April 12th 2019 but the position will be filled as soon as possible.

News from the ASP Network for Parasitology

Welcome



ASP Annual Conference Adelaide 2019

We look forward to seeing you at the [2019 ASP Annual Conference](#), which will be held at the Adelaide Convention Centre from Monday July 8 – Thursday July 11.

Registration and abstract submission is now open <https://www.conftool.org/parasitology2019/> Register before the early bird deadline on 31st March 2019 for great value for money.

Please note to be eligible for a [2019 ASP Student Conference Travel Grant](#) you must have a valid ASP Student membership by 10 April 2019 and meet all of the other criteria.

We hope you will join us at the 2019 ASP Conference to discuss the latest research and state-of-the-art technologies in parasitology with our outstanding mix of quality international and Australian scientists.

The 2019 ASP conference will open with "Extraordinary Women in Parasitology" cocktail event, sponsored by Bayer. This free, family friendly event is open to the public and will feature the stories of trail-blazing women parasitologists, with a cocktail on arrival and parasitology-themed face painting and will be followed by the Conference Welcome Reception.

The three-day conference [program](#) will cover themes of Parasites, Livestock and Feeding and Clothing the World; Wildlife Parasitology; Parasites, Fish and Feeding the World; Parasites of Humans, Drugs and Resistance; Novel Approaches to Control Helminth Parasites in Livestock (NACHPL) and Ticks and Tick-Borne Bacteria and Viruses in Australia. Our invited speakers are an outstanding mix of international and Australian scientists and include the following:

Soil-Transmitted Helminths Elsevier Plenary Lecture Series - IJP Invited Lecturer
Elissa Hallem (UCLA, USA)

Wildlife Parasitology Elsevier Plenary Lecture Series - IJPAW Invited Lecturer
Sarah E. Perkins (Cardiff University)

Parasites of Humans, Drugs and Resistance Elsevier Plenary Lecture Series - IJDDR Invited Lecturer
Alexis Kaushansky (Center for Global Infectious Disease Research, USA)

Plenary Lecturer
Max Scott (North Carolina State University)

Parasites, Fish and Feeding the World Plenary Lecturer
Barbara Nowak (University of Tasmania)

Symposium: Drugs and Drug Resistance
Tina Skinner-Adams (Griffith University)

Ian Whittington Symposium – Fish Parasitology Symposium Lecturer
Sarah Catalano (SARDI)

Symposium: Ticks and Tick-Borne Bacteria and Viruses in Australia: what's new
Stephen Barker (University of Queensland)

Symposium: Cell & Molecular Biology (1)
Jake Baum (Imperial College London)

Symposium: Cell & Molecular Biology (2)
Chris Tonkin (WEHI)

Graham Mayrhofer Symposium – Immunology & Host-Parasite Interactions
Justine Smith (Flinders University)
Mike Bull Symposium – Wildlife Parasitology
Michelle Power (Macquarie University)

Symposium: Vaccines
Alan Cowman (WEHI)

Symposium: Immunology & Host-Parasite Interactions
Michelle Boyle (QIMR Berghofer)

Strongyloides Workshop

Conference delegates can also attend the 14th National Workshop on Strongyloidiasis on Monday 8th July 2019 for an additional registration fee. See the conference website for information about the Strongyloides workshop.

Early Career Researchers are invited to a breakfast event on the first morning, Tuesday 9th July 2019 and to the inaugural ECR Scavenger Hunt on Wednesday 10th July 2019. ECR's can add these events when registering for the Conference. As usual we have a great social program incorporated into

Closing dates for ASP awards

ASP Fellowships
9 January 2020

ASP Researcher Exchange, Travel and Training Awards & JD Smyth
22 March 2019,
27 September 2019

John Frederick Adrian Sprent Prize
30 September 2019

Bancroft-Mackerras Medal for Excellence
30 September 2019

More information
www.parasite.org.au

the conference which will culminate with the Conference Dinner sponsored by Virbac at La Boca Bar and Grill Argentinian restaurant.

Once again we will offer a **parents/carers and children room** during the conference separate from the lecture theatres so that parents/carers will be able to watch and listen to the conference presentations live online using their own devices.

Check the advice page for accommodation options nearby and other helpful advice: <https://www.parasite.org.au/2019conference/advice/>

The policy on gender equality and audit from 2018 ASP Conference is on the Conference website <https://www.parasite.org.au/2019conference/policy/>

Follow the conference on social media with the hashtag **#2019ASP**

Check the Conference website <https://www.parasite.org.au/2019conference/> for more information and we look forward to seeing you in Adelaide in July 2019!

We would like to acknowledge the generous support of our 2019 ASP conference sponsors, thanks to Virbac, Elsevier Parasitology and the International Journal for Parasitology (IJP), IJP DDR and IJP PAW, Bayer, Australian Wool Innovation, and New England Biolabs.

Note on the clashing dates of the 2019 ASP Conference and WAAVP 2019

Sadly there is a clash of dates of our 2019

ASP Annual Conference and WAAVP 2019. Please know that we share your unhappiness about this clash. The dates of 2019 ASP Annual Conference (July 8-11) were selected based on several factors including: availability of suitable venues; cost competitiveness; timing of non-teaching weeks in Australian universities; dates set for other conferences. When the 2019 ASP Conference dates were selected we were not aware of the shift of dates of WAAVP from its normal August timing to July. WAAVP has, for so long, been held in August or September, this timing was one of the reasons for shifting the ASP Annual Conference from September to July over a decade ago. As soon as we learnt of the clash with WAAVP we immediately explored if it was feasible to shift our 2019 meeting to September. We found that there was not a week in September where all universities had non-teaching periods, meaning that, whichever date we chose, numerous members would be unable to attend. Furthermore, when we compared the list of attendees at our own 2017 Conference with Australian attendees at the 2017 WAAVP, we found a surprisingly limited overlap. We were also aware of a likely clash with the ASBMB conference in Perth, a Society in which several of our members are also involved. Taking account of all these factors, we concluded that the "hit" to attendance of our conference was likely to be similar if we stayed with July or attempted to move to September so we, reluctantly, took the decision to stay with the dates we had advised our members at successive AGMs. As this

issue is now firmly on our radar we are aware that the 2021 WAAVP Conference is also proposed for July, in Dublin, and we will bring this matter up for discussion at the 2019 ASP AGM. We also welcome feedback from our ASP Members in the lead-up to the discussion at the AGM please email your constructive feedback/ ideas/concerns to Lisa.Jones1@jcu.edu.au and Lisa will include these sentiments in the AGM discussion and pass them on to the ASP Council for their consideration at the 2019 ASP ETM.

Network Mentorship Scheme

Network Mentorship Scheme Early career researchers are encouraged to apply to the Network Convenor (nick.smith@parasite.org.au), in strict confidence, for funding to participate in the Network Mentorship Scheme. The scheme allows young investigators to be paired with experienced, successful academics to discuss, plan, prioritise and set targets for their career. Typically, the early career researcher will fly to the institute of a senior parasitologist and spend a day there. Arrangements for professional development and progress to be reviewed by the pair annually can also be arranged. Importantly, mentors need not be from an individual's home institution but can be drawn from across the Network. The scheme has proved very valuable for several young researchers and their mentors already and covers mentorship across all aspects of working in parasitology including research, teaching, leadership, communication and outreach and other areas of professional development.

**With best wishes,
Nick and Lisa**

Invited speakers at the 2019 ASP Annual Conference will include (L-R) Elissa Hallem, Jake Baum, Justine Smith, Max Scott, Sarah Perkins and Chris Tonkin.



2018 ASP Network Researcher Exchange, Training and Travel Award

Dr Scott Cutmore of the University of Queensland describes a visit to Japan to meet two marine taxonomists and collect marine fishes for trematodes.

Thanks to the ASP Researcher Exchange, Training and Travel Award, I had the opportunity to travel to Japan to work with two fantastic marine taxonomists, Assoc. Prof Sho Shirakashi (Kindai University) and Assoc. Prof James Reimer (University of the Ryukyus). With my colleague Assoc. Prof Tom Cribb, I visited each research group for 10 days, where I collected and examined a range of marine fishes for trematodes. In contrast to our normal collecting trips, however, this trip was not aimed at finding new trematode species, rather at re-collecting a range of known species for genotyping.

The trematode fauna of Japanese marine fishes is one of the best studied in the Tropical Indo-west Pacific. It has been the focus of extensive study over the past 80 years, by eminent researchers such as Yamaguti, Kamegai, Machida, Ogawa, Ozaki, and Shimazu. More recently (over the last 30 years), the trematode fauna of the Great Barrier Reef has received extensive focus, with over 350 species known from the region. Many of the species that have been reported from the Great Barrier Reef were first described from Japan; however, these identifications were made entirely on the basis of morphology. Much of the Japanese work was conducted prior to the inclusion of molecular data in trematode systematics, while much of the Great Barrier Reef work was conducted since its inclusion.

The conservative morphology and high propensity for cryptic speciation of trematodes means that genetic data are

a must for their accurate identification. Without molecular data from both Japan and the Great Barrier Reef, it is impossible to determine if marine trematode faunas are widely shared between the two regions or if they are distinct; each scenario has major implications for our understanding of trematode richness in the Tropical Indo-west Pacific. Thus, the aim of my trip was to re-collect trematode species that were originally described in Japan and have been subsequently reported from the Great Barrier Reef.

The two locations I visited (Okinawa and Shirahama) were dramatically different regarding the fishes available for study, but both have been the sites of intensive parasitological research and at both there are species also reported from Australian waters. The warm tropical seas surrounding Okinawa (far southern Japan) meant we had the opportunity

Images courtesy Scott Cutmore



Scott Cutmore continued

to collect fishes that we commonly see on the Great Barrier Reef, especially of the families Acanthuridae (surgeonfishes), Chaetodontidae (butterflyfishes), Lutjanidae (snappers), Serranidae (groupers) and Siganidae (rabbitfishes). Collecting in Okinawa involved spearing on the reef (which completely surrounds the main island) for smaller fishes such as butterflyfishes and boxfishes or a trip to the market for bigger, commercial fishes. In Shirahama (on the south-eastern edge of the Seto Inland Sea) we collected almost all our fish from markets. Here we were able to examine fishes of the families Carangidae (trevally), Haemulidae (sweetlips), Monacanthidae (leatherjackets), Muraenidae (moray eels) and Sparidae (seabreams), which we have commonly examined on the southern Great Barrier Reef and closer to home in Moreton Bay.

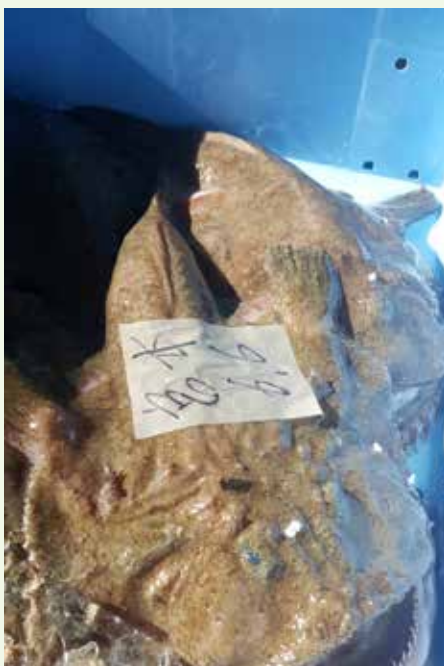
In both Okinawa and Shirahama we found a remarkable diversity of trematodes representing at least 20 families. We collected many of Yamaguti's species that we were hoping to find, as well as, to our surprise, many species that are likely new to science. Molecular analysis of the new specimens has been surprising,



with a variety of biogeographical patterns found. We have identified some species with exceptionally wide ranges, being genetically identical between Japan, Heron Island and Lizard Island on the Great Barrier Reef, and Moreton Bay in south Queensland. We have also found some sister-species that are clearly distinct

between Japan and the Great Barrier Reef, despite them being morphologically indistinguishable and previously reported as the same species. Lastly, we have found some strange distributions, such as a species shared between Japan and Heron Island while a genetically distinct sister-species is found at Lizard Island (in between Japan and Heron Island). These collections will provide the basis for many publications and inform several current postgraduate studies in the Marine Parasitology Research Group.

Both James and Sho were extremely welcoming, and I sincerely thank them for all their help during my stay. These collections would have been impossible without their assistance. I look forward to collaborating with both of them in the future. I again thank the ASP for enabling me to undertake this trip, the collections from which will undoubtedly inform our understanding of trematode diversity in the western Pacific.



JD Smyth Postgraduate Travel Award

Lisa Jones talks to Dan Hutson about his visit to London where he worked with Dr Rod Bray at the Natural History Museum

Daniel, tell us about your research.

I'm a parasite taxonomist currently finishing up my PhD at the University of Queensland. I'm working on the life-cycles and systematics of digenetic trematodes with a special focus on those species which exploit herbivorous marine fishes. I've done most of my field collections on the Great Barrier Reef and in Moreton Bay, Queensland, but I've also been fortunate enough to collect in South Australia, Western Australia, French Polynesia and South Africa. Right now I'm working on describing new species of the digenean families Enenteridae and Gorgocephalidae, with an ultimate aim of exploring the relationships between these two, related but non-sister taxa, and their host group – marine fishes of the family Kyphosidae.

Tell us about your Researcher Exchange at the Natural History Museum in the UK and how has this helped your research.

During my visit to the Museum I worked with Dr. Rod Bray with specimens of

the superfamily Lepocreadioidea housed at the NHM to determine important characteristics that may indicate important groups for future genomic analyses. Furthermore I was able to obtain additional measurements and morphological insights through the study of the NHM's collection of the lepecreadiid family Enenteridae – these data have been added to taxonomic papers I am currently preparing. I was also introduced to Dr. Natalia Fraija-Fernández (who had produced an excellent paper on the cophylogeny of cetaceans and their trematodes), who taught me the finer points of cophylogenetic analysis using the programs JANE and PACO. Additionally, through discussions with Dr. Andrea Waeschenbach, I was able to gain a better understanding of the utility of mitogenomic and transcriptomics for phylogenetic inference. Dr. Waeschenbach also inspired me to step outside my field (systematics) and look into other questions I could ask with a genomic toolkit. I am now preparing multiple postdoctoral fellowship applications in collaboration with Dr. Waeschenbach with a transcriptome-based methodology to answer some novel evolutionary and systematic questions. Lastly, I was awarded the Sir. David Attenborough Award for fieldwork at the Linnean Society of London's annual meeting – It was a great opportunity to meet many renowned systematists, and to promote

the ASP.

Daniel, what did you enjoy the most about your Researcher Exchange?

Absolutely the people. Despite everyone at the NHM being top researchers in their field with multiple irons in the fire and busy schedules, everyone was friendly and happy to take the time out of their day to help me out, listen to my questions and share their advice. It's always rad to meet names you've seen on loads of papers and find out they are cool people.

Tell us, what are your future plans? What happens next?

Like many starry-eyed soon-to-be PhD's I'm hoping to go the academic route, so that means a whirlwind last few months of my PhD while I try to write up my papers, thesis and fellowship applications all while living on the proverbial beans and rice to save money for the coming lean times.

Thanks Daniel and best of luck for your research, we hope to read more about it in the future!

Left: Daniel Huston with Drs. Andrea Waeschenbach (left) and Rod Bray (right). Daniel was awarded the Sir. David Attenborough Award for Fieldwork from the Linnean Society of London and Systematics Society for his parasitological research on the Great Barrier Reef.

Right: Daniel Huston with Dr. Rod Bray in the lab at the Natural History Museum, London.



OzEMalaR Researcher Exchange

Dr. Christopher N Haggarty-Weir recalls his 2013 OzEMalaR Researcher Exchange to Edinburgh.

Back in 2013, I was awarded an OzEMalaR travel award which I used to travel to Edinburgh in 2015. I was carrying out a Universitas 21 Joint Ph.D between the Universities of Melbourne (Walter and Eliza Hall Institute) and Edinburgh (Joseph Black School of Chemistry), under the supervision of Prof. Alan Cowman. As my research focussed on the structure, biophysics and biochemistry of the *Plasmodium falciparum* Rh5/Ripr/CyRPA invasion complex (particularly the Ripr protein), I required an interdisciplinary team comprised of the parasitology expertise in Melbourne and the nuclear magnetic resonance facility in Edinburgh, in addition to access to a specially engineered strain of *Pichia pastoris* for disulphide-rich protein expression (available from the lab of Prof. Paul Barlow).

I had always wanted to study in Edinburgh as my family were from there and my Grandfather studied there. I still have some relatives there, such as Dr. Jim Allan who studies chromatin biology. I also love the cold weather so it was a perfect setting in that regard. The OzEMalaR award helped enormously with getting set up in Edinburgh where accommodation can be difficult to secure. Once I got settled in I got straight to work developing both refolding protocols of bacterially-expressed recombinant malaria proteins, utilizing the proprietary strain of *P. pastoris* as an alternative expression route, and teaching biological chemistry students both in class and in the lab. I really enjoyed teaching, especially the supervision of my undergraduate student Ella Svahn and my Honours student Roma Galloway, which led me to being honoured by being awarded the best supervisor award in

the School of Chemistry during the 2015 Joseph Black conference. This went nicely back-to-back with winning the School Heats of the 3-Minute thesis competition.

Eventually the use of *P. pastoris* for my research allowed me to produce 1g per litre quantities of recombinant protein after optimizing the cloning and expression, leading to isotopically-labelled samples for NMR analysis. This allowed me to look at the biophysics of the protein, show that it binds calcium at physiological concentrations (elucidating a function of the Ripr protein), revealed it was heat-resistant up to temperatures of 65 °C, and



the mapping of the amino acid backbone. Currently I set up a collaboration with Prof. Glenn King at the Institute for Molecular Bioscience (University of Queensland) to continue the work on the molecular structure. However, whilst in Europe I was able to utilize the SAXS facility in Hamburg which led to data that, combined with a computational approach, led to the structure of one of my Ripr proteins, comprised of the 5th – 7th EGF-like domains of Ripr. Through continued collaboration with WEHI, we were

also able to make and map inhibitory monoclonal antibodies to the 7th EGF domain of Ripr, validating it as a vaccine target. It was a nice way to finish a very difficult project, leading me to graduate from both universities in mid-2018. Now it is just a case of getting all the papers out!

Whilst in Edinburgh I also had the opportunity to work part-time in the tech transfer office of Edinburgh Innovations as an intellectual property and business development intern. Here I had a focus on commercialization of technology coming from the medical school and school of biological science. This lasted for 16 months and was complimented by a scholarship for the Business and Entrepreneurship skills course held in Dundee. This experience cemented my interest in the commercial side of science and so I got more involved in business competitions, winning awards from the Scottish Institute for Enterprise and Campus Enterprise. I managed to finish my last year of my Ph.D whilst working part-time as a venture capital analyst with Seven Hills Venture Partners, and after finishing I decided I definitely wanted to make the move into a commercial science career. I also grew to love Edinburgh so much as it is a truly beautiful city. That is why, after graduating, I took a position with the International Veterinary Vaccinology Network at the Roslin Institute where I am focused on commercialization of vaccines and attracting industry/investor interest in academic research. On the side I also managed to set up my own consulting business which focuses on biotech commercialization and corporate training (named Haggarty-Weir Consulting) whilst completing my MBA. I love working in this capacity and will always be thankful to both OzEMalaR and the ASP for serving as the catalyst for this.

Proposed (2019) Constitution for the Australian Society for Parasitology Inc.

Here is the full copy of the final proposed new (2019) Constitution for the Australian Society for Parasitology Inc. This serves as official notice that this amended Constitution will be presented, discussed and voted on at the Annual General Meeting on July 11, 2019 at the Adelaide Convention Centre.

As an adjunct to the 2019 Constitution, members are referred to Volume 29, Issue No.2, July 2018 edition of the Society's Newsletter for the previously provided explanation of all the changes incorporated into the new Constitution. <https://www.parasite.org.au/publications/newsletters/>

THE AUSTRALIAN SOCIETY FOR PARASITOLOGY INC. CONSTITUTION

As adopted by the First Annual General Meeting held in Canberra on 19 January 1964 and amended: at General Meetings held on 14 January 1967, 5 August 1967; by postal ballot in January 1972; at General Meetings held on 25 January 1975, 17 May 1976, 23 May 1979, 20 May 1980 and 15 May 1981; by postal ballot in August 1982, June 1984 and May 1985; at General Meetings held on 24 August 1986, 30 September 1987, 10 August 1990, 3 October 1991, 1 September 1992, 30 September 1993, 29 September 1994, 17 July 1997 and 29 September 1998; by postal ballot in May 1999 and August 1999; at General Meetings held on 11 July 2001, 19 October 2005, 10 July 2007, 8 July 2008; by written ballot on 5 June 2012 and 21 June 2012; and at the General Meetings held on September 27, 2018 and July 11, 2019.

1 Interpretation

(1) In this constitution, **Act** means the *Queensland (QLD) Associations Incorporation Act 1981*, and **present** means:

(a) at a management committee (**Council**) meeting, see rule 22(6); or

(b) at a general meeting, see rule 33(2).

(2) A word or expression that is not defined in these model rules, but is defined in the Act has, if the context permits, the meaning given by the Act.

2 Name

The name of the incorporated association is The Australian Society for Parasitology Inc. (**the Society**).

3 Objects

The objects of the Society are to foster the association of persons interested in parasitology and advance and disseminate knowledge of parasitology.

4 Powers

(1) The Society has the powers of an individual.

(2) The Society may, for example:

(a) enter into contracts; and

(b) acquire, hold, deal with and dispose of property; and

(c) make charges for services and facilities it supplies; and

(d) do other things necessary or convenient to be done in carrying out its affairs.

(3) The Society may also issue secured and unsecured notes, debentures and debenture stock for the Society.

5 Classes of members

(1) The membership of the Society consists of any of the following classes of members:

- Ordinary Member (a person whose experience or interest will, in the opinion of the Council Executive, allow them to participate in and contribute to the activities of the Society);
- Student Member (a person currently enrolled

Proposed 2019 Constitution continued

as a student in an Australian university, whose experience or interest will, in the opinion of the Council Executive, allow them to participate in and contribute to the activities of the Society);

- International Member (a person living outside Australia whose experience or interest will, in the opinion of the Council Executive, allow them to contribute to the activities of the Society);
- Lifetime Member (an Ordinary Member, of good standing and aged 55 years or older who upon retirement, or at any time thereafter, may pay three times the current annual dues as a final payment entitling him/her to all the privileges of Ordinary Membership for life or, alternatively, an Ordinary Member in good standing upon retirement may pay membership dues annually at the student rate, entitling him/her to all the privileges of Ordinary Membership for that year);
- Foundation Member (being any member who joined the Society on or before June 30, 1964);
- Fellow (a distinguished member, elected by Council, who by their influence or endeavour have promoted the advancement of parasitology and rendered conspicuous service to the cause of parasitology and the Society).

(2) The number of members, in all classes of membership of the Society, is unlimited.

6 New membership

(1) An applicant for Ordinary, Student or International membership of the Society must be proposed by a member of the Society (the **proposer**) and seconded by another member (the **seconder**).

(2) An application for Ordinary, Student or International membership must be submitted to the Secretary:

- (a) in writing; and
- (b) endorsed by the applicant and the applicant's proposer and seconder; and
- (c) in the form decided by the Council.

(3) An application for Lifetime membership may be submitted, in writing, to the Secretary, without the need for a proposer or seconder.

(4) Nominations for election of a Fellow are to be in the form of a written citation detailing how the nominee has, by their influence or endeavour, promoted the advancement of parasitology and rendered conspicuous service to the cause of parasitology and the Society. Nominations require the signatures of a proposer and seconder, both of whom are Members of the Society, but a nomination for a Fellow does not require the signature (or knowledge) of the nominee. Nominations may be submitted to the Secretary at any time.

7 Membership fees

(1) The membership fee for each class of membership (if any):

- (a) is the amount decided by the members from time to time at a general meeting; and
- (b) is payable when, and in the way, the Council decides.

8 Admission and rejection of new members

(1) The Council Executive (President, Treasurer, Executive Secretary, and Vice President or President Elect) must consider an application for Ordinary, Student, International or Lifetime membership as soon as possible after it receives:

- (a) the application for membership; and
- (b) the appropriate membership fee for the application.

(2) The Council Executive must ensure that, as soon as possible after the person applies to become an Ordinary, Student, International or Lifetime member of the Society, and before the Council Executive considers the person's application, the person is advised:

- (a) whether or not the Society has public liability insurance; and
- (b) if the Society has public liability insurance, the amount of the insurance.

(3) The Council Executive must decide as soon as possible after receiving an application for Ordinary, Student, International or Lifetime membership

Proposed 2019 Constitution continued

whether to accept or reject the application.

(4) If a majority of the members of the Council Executive vote to accept the applicant as an Ordinary, Student, International or Lifetime member, the applicant must be accepted as a member for the class of membership applied for.

(5) The Council Executive must, as soon as practicable after they decide to accept or reject an application for Ordinary, Student, International or Lifetime membership of the Society, give the applicant a written notice of the decision.

(6) Fellows will be elected by a three-quarters majority vote of Council at the first Council Meeting scheduled after the receipt of a nomination(s) by the Secretary. Fellows will be presented with a certificate at the first General Meeting after their election and shall pay no annual membership fees thereafter but shall enjoy all the rights and privileges of Ordinary Members including the right to vote.

9 When membership ends

(1) A Member may resign from the Society by giving a written notice of resignation to the Secretary.

(2) The resignation takes effect at —

(a) the time the notice is received by the Secretary; or

(b) if a later time is stated in the notice, the later time.

(3) The Council may terminate a member's membership if the member —

(a) is convicted of an indictable offence; or

(b) does not comply with any of the provisions of these rules; or

(c) has membership fees in arrears for at least 2 years; or

(d) conducts himself or herself in a way considered to be injurious or prejudicial to the character or interests of the Society.

(4) Before the Council terminates a member's membership, the Council must give the member a full and fair opportunity to show why the membership should not be terminated.

(5) If, after considering all representations made by the member, the Council decides to terminate the membership, the Council Executive must give the

member a written notice of the decision.

10 Appeal against rejection or termination of membership

(1) A person whose application for Ordinary, Student, International or Lifetime membership has been rejected, or whose membership has been terminated, may give the Secretary written notice of the person's intention to appeal against the decision.

(2) A notice of intention to appeal must be given to the Secretary within one month after the person receives written notice of the decision.

(3) If the Secretary receives a notice of intention to appeal, the Secretary must, within one month after receiving the notice, call a general meeting to decide the appeal.

11 General meeting to decide appeal

(1) The general meeting to decide an appeal must be held within 3 months after the Secretary receives the notice of intention to appeal.

(2) At the meeting, the applicant must be given a full and fair opportunity to show why the application for Ordinary, Student, International or Lifetime should not be rejected or the membership should not be terminated.

(3) Also, the Council Executive who rejected the application for Ordinary, Student, International or Lifetime membership or the Council who terminated the membership must be given a full and fair opportunity to show why the application should be rejected or the membership should be terminated.

(4) An appeal must be decided by a majority vote of the members present and eligible to vote at the general meeting.

(5) If a person whose application for Ordinary, Student, International or Lifetime membership has been rejected does not appeal against the decision within one month after receiving written notice of the decision, or the person appeals but the appeal is unsuccessful, the Society must, as soon as practicable, refund the membership fee paid by the person.

Proposed 2019 Constitution continued

12 Register of members

- (1) The Society must keep a register of members of the Society.
- (2) The register must include the following particulars for each member:
 - (a) the full name of the member;
 - (b) the postal or residential address of the member;
 - (c) the date of admission as a member;
 - (d) the date of death or time of resignation of the member;
 - (e) details about the termination or reinstatement of membership;
 - (f) any other particulars the Council or the members at a general meeting decide.
- (3) The register must be open for inspection by members of the Society at all reasonable times.
- (5) The Council Executive may, on the application of a member of the Society, withhold information about the member (other than the members full name) from the register available for inspection if the Council Executive has reasonable grounds for believing the disclosure of the information would put the member at risk of harm.

13 Prohibition on use of information on register of members

- (1) A member of the Society must not:
 - (a) use information obtained from the register of members of the Society to contact, or send material to, another member of the Society for the purpose of advertising for political, religious, charitable or commercial purposes; or
 - (b) disclose information obtained from the register to someone else, knowing that the information is likely to be used to contact, or send material to, another member of the Society for the purpose of advertising for political, religious, charitable or commercial purposes.
- (2) Subrule (1) does not apply if the use or disclosure of the information is approved by the Society.

14 Appointment of Secretary

- (1) The Secretary must be an individual residing in Queensland, or in another State but not more

than 65km from the Queensland border, who is appointed by the Council.

- (2) If a vacancy happens in the office of Secretary, the members of the Council Executive must ensure a Secretary is appointed for the Society within one month after the vacancy happens.

15 Removal of Secretary

The Council of the Society may at any time remove a person appointed by the Council as the Secretary.

16 Functions of Secretary

The Secretary's functions include, but are not limited to:

- (a) calling meetings of the Society, including preparing notices of a meeting and of the business to be conducted at the meeting in consultation with the Council Executive; and
- (b) ensuring the recording of minutes of each meeting; and
- (c) ensuring the keeping of copies of all correspondence and other documents relating to the Society; and
- (d) ensuring the maintenance of the register of members of the Society.

17 Membership of the Council

- (1) The Council of the Society consists of a President, Treasurer, Executive Secretary, Vice President or President-Elect, a Student representative, a representative from the Fellows of the Society, and one representative from each of the States and mainland Territories of the Commonwealth of Australia, who members of the Society elect at an Annual General Meeting.

The President-Elect shall be elected for a period of one term at the second Annual General Meeting in the term of the preceding President. At the conclusion of this term, the President-Elect will become President, serving two terms as President. At the conclusion of those two terms, the President will become Vice President and serve one term as Vice President.

Proposed 2019 Constitution continued

The Treasurer and Executive Secretary shall be elected for a period of two terms at every second Annual General Meeting.

The State and Territory representatives, the representative from the Society's Fellowship and Student representative will be elected for a single term and may not serve more than three consecutive terms.

A term is defined by the period elapsing between the termination of one Annual General Meeting and the termination of the next Annual General Meeting.

(2) A member of the Council must be a member of the Society.

(3) A member of the Society may be appointed to a casual vacancy on the Council under rule 20.

18 Electing the Council

(1) A member of the Council may only be elected as follows:

- (a) any two members of the Society may nominate another member (the **candidate**) to serve as a member of the Council;
- (b) the nomination must be:
 - (i) in writing; and
 - (ii) agreed and endorsed by the candidate and the members who nominated him or her; and
 - (iii) submitted to the Secretary at least one month before the Annual General Meeting at which the election is to be held;
- (c) each member of the Society present and eligible to vote at the Annual General Meeting may vote for one candidate for each vacant position on the Council;
- (d) if, at the start of the meeting, there are not enough candidates nominated, nominations may be taken from the floor of the meeting.

(2) A person may be a candidate only if the person:

- (a) is an adult; and
- (b) is not ineligible to be elected as a member

under section 61A of the Act.

(3) A list of the candidate's names in alphabetical order, with the names of the members who nominated each candidate, must be posted in a conspicuous place of the Society for at least one week immediately preceding the Annual General Meeting.

(4) If required by the Council, balloting lists must be prepared containing the names of the candidates in alphabetical order.

(5) The Council Executive must ensure that, before a candidate is elected as a member of the Council, the candidate is advised:

- (a) whether or not the Society has public liability insurance; and
- (b) if the Society has public liability insurance—the amount of the insurance.

19 Resignation, removal or vacation of office of Council member

(1) A member of the Council may resign from the Council by giving written notice of resignation to the Secretary.

(2) The resignation takes effect at:

- (a) the time the notice is received by the Secretary; or
- (b) if a later time is stated in the notice—the later time.

(3) A member of the Council may be removed from office at a general meeting of the Society if a majority of the members present and eligible to vote at the meeting vote in favour of removing the member.

(4) Before a vote of members is taken about removing the Council member from office, the member must be given a full and fair opportunity to show cause why he or she should not be removed from office.

(5) A member has no right of appeal against the member's removal from Council under this rule.

(6) A member immediately vacates the office of Council member in the circumstances mentioned in section 64(2) of the Act.

20 Vacancies on the Council

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(1) If a casual vacancy happens on the Council, the continuing members of the Council may appoint another member of the Society to fill the vacancy until the next Annual General Meeting.

(2) The continuing members of the Council may act despite a casual vacancy on the Council.

(3) However, if the number of Council members is less than the number fixed under rule 23(1) as a quorum of the Council, the continuing members may act only to:

- (a) increase the number of Council members to the number required for a quorum; or
- (b) call a general meeting of the Society.

21 Functions of the Council

(1) Subject to these rules or a resolution of the members of the Society carried at a general meeting, the Council has the general control and management of the administration of the affairs, property and funds of the Society.

(2) The Council has authority to interpret the meaning of these rules and any matter relating to the Society on which the rules are silent, but any interpretation must have regard to the Act, including any regulation made under the Act.

Note—

The Act prevails if the Society's rules are inconsistent with the Act—see section 1B of the Act.

(3) The Council may exercise the powers of the Society:

- (a) to borrow, raise or secure the payment of amounts in a way the members of the Society decide; and
- (b) to secure the amounts mentioned in paragraph (a) or the payment or performance of any debt, liability, contract, guarantee or other engagement incurred or to be entered into by the Society in any way, including by the issue of debentures (perpetual or otherwise) charged upon the whole or part of the Society's property, both present and future; and
- (c) to purchase, redeem or pay off any securities issued; and
- (d) to borrow amounts from members and pay interest on the amounts borrowed; and
- (e) to mortgage or charge the whole or part of

its property; and

(f) to issue debentures and other securities, whether outright or as security for any debt, liability or obligation of the Society; and

(g) to provide and pay off any securities issued; and

(h) to invest in a way the members of the Society may from time to time decide.

(4) For subrule (3)(d), the rate of interest must not be more than the current rate being charged for overdrawn accounts on money lent (regardless of the term of the loan) by:

- (a) the financial institution for the Society; or
- (b) if there is more than one financial institution for the Society—the financial institution nominated by the Council.

22 Meetings of the Council

(1) Subject to this rule, the Council may meet and conduct its proceedings as it considers appropriate.

(2) The Council must meet at least once every 4 months to exercise its functions.

(3) The Council must decide how a meeting is to be called.

(4) Notice of a meeting is to be given in the way decided by the Council Executive.

(5) The Council may hold meetings, or permit a committee member to take part in its meetings, by using any technology that reasonably allows the member to hear and take part in discussions as they happen.

(6) A Council member who participates in the meeting as mentioned in subrule (5) is taken to be present at the meeting.

(7) Where a State or Territory representative or Student representative member of Council, is unable to attend a meeting of the Council, they may appoint a proxy, from the particular State or Territory, or the student membership, respectively, to act for them at that meeting.

(8) A question arising at a Council meeting is to be decided by a majority vote of members of the Council present at the meeting and, if the votes are equal, the question is decided in the negative.

(9) A member of the Council must not vote on a

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question about a contract or proposed contract with the Society if the member has an interest in the contract or proposed contract and, if the member does vote, the members vote must not be counted.

(10) The President is to preside as chairperson at a Council meeting.

(11) If there is no President or if the President is not present within 10 minutes after the time fixed for a Council meeting, the members may choose one of their number to preside as chairperson at the meeting.

23 Quorum for, and adjournment of, the Council meeting

(1) At a Council meeting, more than half of the members elected to the Council as at the close of the last general meeting of the members form a quorum.

(2) If there is no quorum within 30 minutes after the time fixed for a Council meeting called on the request of members of the Council, the meeting lapses.

(3) If there is no quorum within 30 minutes after the time fixed for a Council meeting called other than on the request of the members of the Council:

(a) the meeting is to be adjourned for at least one day; and

(b) the members of the Council who are present are to decide the day, time and place of the adjourned meeting.

(4) If, at an adjourned meeting mentioned in subrule (3), there is no quorum within 30 minutes after the time fixed for the meeting, the meeting lapses.

24 Special meeting of the Council

(1) If the Secretary receives a written request signed by at least one-third of the members of the Council, the Secretary must call a special meeting of the Council by giving each member of the Council notice of the meeting within one month after the Secretary receives the request.

(2) If the Secretary is unable or unwilling to call the special meeting, the President must call the

meeting.

(3) A request for a special meeting must state:

(a) why the special meeting is called; and

(b) the business to be conducted at the meeting.

(4) A notice of a special meeting must state:

(a) the day, time and place of the meeting; and

(b) the business to be conducted at the meeting.

(5) A special meeting of the Council must be held within one month after notice of the meeting is given to the members of the Council.

25 Minutes of Council meetings

(1) The Secretary must make arrangements to ensure that full and accurate minutes of all questions, matters, resolutions and other proceedings of each Council meeting are recorded.

(2) To ensure the accuracy of the minutes, the minutes of each Council meeting must be signed by the chairperson of the meeting, or the chairperson of the next Council meeting, verifying their accuracy.

26 Appointment of Editors, Convenors, Archivists, Secretariat and subcommittees

(1) The Council may appoint Editors, Convenors, Archivists, Secretariat and subcommittees consisting of members of the Society considered appropriate by the Council to help with the conduct of the Society's operations.

(2) An Editor, Convenor, Archivist, Secretariat or member of a subcommittee who is not an elected member of the Council is not entitled to vote at a Council meeting.

(3) A subcommittee may elect a chairperson of its meetings.

(4) If a chairperson is not elected, or if the chairperson is not present within 10 minutes after the time fixed for a meeting, the members present may choose one of their number to be chairperson of the meeting.

(5) A subcommittee may meet and adjourn as it considers appropriate.

(6) A question arising at a subcommittee meeting is to be decided by a majority vote of the members present at the meeting and, if the votes are equal, the question is decided in the negative.

27 Acts not affected by defects or disqualifications

(1) An act performed by the Council, Editors, Convenors, Archivists, Secretariat a subcommittee or a person acting as a member of the Council is taken to have been validly performed.

(2) Subrule (1) applies even if the act was performed when:

(a) there was a defect in the appointment of a member of the Council, Editor, Convenor, Archivist, Secretariat, subcommittee or person acting as a member of the Council; or

(b) a Council member, Editor, Convenor, Archivist, Secretariat, subcommittee member or person acting as a member of the Council was disqualified from being a member.

28 Resolutions of Council without meeting

(1) A written resolution signed by each member of the Council is as valid and effectual as if it had been passed at a Council meeting that was properly called and held.

(2) A resolution mentioned in subrule (1) may consist of several documents in like form, each signed by one or more members of the Council.

29 Annual General Meetings

An Annual General Meeting must be held:

(a) at least once each year; and

(b) within 6 months after the end date of the Society's reportable financial year.

30 Business to be conducted at Annual General Meeting

(1) The following business must be conducted at each Annual General Meeting of the Society:

(a) receiving the Society's financial statement, and audit report, for the last reportable financial year;

(b) presenting the financial statement and audit report to the meeting for adoption;

(c) electing members of the Council;

(d) appointing an auditor or an accountant for the present financial year.

(2) The following business may also be conducted at each Annual General Meeting of the Society:

(a) receipt of reports from Editors, Convenors, Archivists, Secretariat and subcommittees; and

(b) review and debate of any action or decision by the Council, with any such action or decision subject to change by an affirmative vote of three-quarters of the members present and eligible to vote, provided also that Society action does not involve commitment, obligation, or payment of funds on which the Council has already acted in accordance with its duly invested authority and responsibility.

31 Notice of general meeting

(1) The Secretary may call a general meeting of the Society.

(2) The Secretary must give at least one months notice of the meeting to each member of the Society.

(3) If the Secretary is unable or unwilling to call the meeting, the President must call the meeting.

(4) The Council may decide the way in which the notice must be given.

(5) However, notice of the following meetings must be given in writing:

(a) a meeting called to hear and decide the appeal of a person against the Council's decision:

(i) to reject the person's application for membership of the Society; or

(ii) to terminate the person's membership of the Society;

(b) a meeting called to hear and decide a proposed special resolution of the Society.

(6) A notice of a general meeting must state the business to be conducted at the meeting.

32 Quorum for, and adjournment of, general meeting

(1) The quorum for a general meeting is at least 40 members.

(2) No business may be conducted at a general meeting unless there is a quorum of members when the meeting proceeds to business.

(3) If there is no quorum within 30 minutes after

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the time fixed for a general meeting called on the request of members of the Council or the Society, the meeting lapses.

(4) If there is no quorum within 30 minutes after the time fixed for a general meeting called other than on the request of members of the Council or the Society:

(a) the meeting is to be adjourned for at least one week; and

(b) the Council Executive is to decide the day, time and place of the adjourned meeting.

(5) The chairperson may, with the consent of any meeting at which there is a quorum, and must if directed by the meeting, adjourn the meeting from time to time and from place to place.

(6) If a meeting is adjourned under subrule (5), only the business left unfinished at the meeting from which the adjournment took place may be conducted at the adjourned meeting.

(7) The Secretary is not required to give the members notice of an adjournment or of the business to be conducted at an adjourned meeting unless a meeting is adjourned for at least one month.

(9) If a meeting is adjourned for at least one month, notice of the adjourned meeting must be given in the same way notice is given for an original meeting.

33 Procedure at general meeting

(1) A member may take part and vote in a general meeting in person, by proxy, by attorney or by using any technology that reasonably allows the member to hear and take part in discussions as they happen.

(2) A member who participates in a meeting as mentioned in subrule (1) is taken to be present at the meeting.

(3) At each general meeting:

(a) the President is to preside as chairperson; and

(b) if there is no President or if the President is not present within 15 minutes after the time fixed for the meeting or is unwilling to act, the members present must elect one of their number to be chairperson of the meeting; and

(c) the chairperson must conduct the meeting in

a proper and orderly way.

34 Voting at general meeting

(1) At a general meeting, each question, matter or resolution, other than a special resolution, must be decided by a majority of votes of the members present.

(2) Each member present and eligible to vote is entitled to one vote only and, if the votes are equal, the chairperson has a casting vote as well as a primary vote.

(3) A member is not entitled to vote at a general meeting if the member's annual subscription is in arrears at the date of the meeting.

(4) The method of voting is to be decided by the Council.

(5) However, if at least 20% of the members present demand a secret ballot, voting must be by secret ballot.

(6) If a secret ballot is held, the chairperson must appoint two members to conduct the secret ballot in the way the chairperson decides.

(7) The result of a secret ballot as declared by the chairperson is taken to be a resolution of the meeting at which the ballot was held.

35 Special general meeting

(1) The Secretary must call a special general meeting by giving each member of the Society notice of the meeting within one month after:

(a) being directed to call the meeting by the Council; or

(b) being given a written request signed by—

(i) at least one-third of the number of members of the Council when the request is signed; or

(ii) at least the number of ordinary members of the Society equal to double the number of members of the Society on the Council plus one when the request is signed; or

(c) being given a written notice of an intention to appeal against the decision of the Council:

(i) to reject an application for membership; or

(ii) to terminate a person's membership.

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(2) A request mentioned in subrule (1)(b) must state—

(a) why the special general meeting is being called; and

(b) the business to be conducted at the meeting.

(3) A special general meeting must be held within 3 months after the Secretary:

(a) is directed to call the meeting by the Council; or

(b) is given the written request mentioned in subrule (1)(b); or

(c) is given the written notice of an intention to appeal mentioned in subrule (1)(c).

(4) If the Secretary is unable or unwilling to call the special meeting, the President must call the meeting.

36 Proxies

(1) An instrument appointing a proxy must be in writing and be in the following or similar form—

[Name of association]:

I, _____ of _____, being a member of the Australian Society for Parasitology Inc, appoint

_____ of _____ as my proxy to vote for me on my behalf at the (annual) general meeting of the Society, to be held on the _____ day of _____ 20____

and at any adjournment of the meeting.

Signed this _____ day of _____ 20____.

Signature

(2) The instrument appointing a proxy must be signed by the appointor or the appointor's attorney properly authorised in writing.

(3) A proxy may be a member of the Society.

(4) The instrument appointing a proxy is taken to confer authority to demand or join in demanding a secret ballot.

(5) Each instrument appointing a proxy must be given to the Secretary before the start of the meeting or adjourned meeting at which the person named in the instrument proposes to vote.

(6) Unless otherwise instructed by the appointor, the proxy may vote as the proxy considers appropriate.

(7) If a member wants a proxy to vote for or against

a resolution, the instrument appointing the proxy must be in the following or similar form:

[Name of association]:

I, _____ of _____, being a member of the Australian Society for Parasitology Inc., appoint

_____ of _____ as my proxy to vote for me on my behalf at the (annual) general meeting of the association, to be held on the _____ day of _____ 20____

and at any adjournment of the meeting.

Signed this _____ day of _____ 20____.

Signature

This form is to be used *in favour of/*against [strike out whichever is not wanted] the following resolutions—

[List relevant resolutions]

37 Minutes of general meetings

(1) The Secretary must make arrangements to ensure that full and accurate minutes of all questions, matters, resolutions and other proceedings of each general meeting are recorded.

(2) To ensure the accuracy of the minutes:

(a) the minutes of each general meeting must be signed by the chairperson of the meeting, or the chairperson of the next general meeting, verifying their accuracy; and

(b) the minutes of each annual general meeting must be signed by the chairperson of the meeting, or the chairperson of the next meeting of the Society that is a general meeting or annual general meeting, verifying their accuracy.

(3) If asked by a member of the Society, the Secretary must, within one month after the request is made:

(a) make the minutes for a particular general meeting available for inspection by the member at a mutually agreed time and place; and

(b) give the member copies of the minutes of the meeting.

(4) The Society may require the member to pay the reasonable costs of providing copies of the minutes.

38 By-laws

(1) The Council may make, amend or repeal

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by-laws, not inconsistent with these rules, for the internal management of the Society.

(2) A by-law may be set aside by a three-quarters majority vote of members at a general meeting of the Society.

39 Alteration of rules

(1) Subject to the Act, these rules may be amended, repealed or added to by a special resolution carried by a three-quarters majority at a general meeting.

(2) However an amendment, repeal or addition is valid only if it is registered by the chief executive.

40 Common seal

(1) The Council must ensure the Society has a common seal.

(2) The common seal must be:

- (a) kept securely by the Council; and
 - (b) used only under the authority of the Council.
- (3) Each instrument to which the seal is attached must be signed by a member of the Council and countersigned by:

- (a) a member of the Council Executive; or
- (b) someone authorised by the Council.

41 Funds and accounts

(1) The funds of the Society must be kept in an account in the name of the Society in a financial institution decided by the Council.

(2) Records and accounts must be kept in the English language showing full and accurate particulars of the financial affairs of the Society.

(3) All amounts must be deposited in the financial institution account as soon as practicable after receipt.

(4) A payment by the Society of \$100 or more must be made by cheque or electronic funds transfer.

(5) If a payment of \$100 or more is made it must be signed (if a cheque) or authorised appropriately (if an electronic transfer) or by any two of the following:

- (a) the President;
- (b) the Executive Secretary;
- (c) the Treasurer;
- (d) any one of three other members of the

Society who have been authorised by the Council to sign cheques issued by the Society.

(6) However, one of the persons who signs the cheque must be the President, the Executive Secretary or the Treasurer.

(7) Cheques, other than cheques for wages, allowances or petty cash recoupment, must be crossed not negotiable.

(8) A petty cash account must be kept on the imprest system, and the Council must decide the amount of petty cash to be kept in the account.

(9) All expenditure must be approved or ratified at a Council meeting.

42 General financial matters

(1) On behalf of the Council, the Treasurer must, as soon as practicable after the end date of each financial year of the Society, ensure a financial statement for its last reportable financial year is prepared.

(2) The income and property of the Society must be used solely in promoting the Society's objects and exercising the Society's powers.

43 Documents

The Council must ensure the safe custody of books, documents, instruments of title and securities of the Society.

44 Financial year

The end date of the Society's financial year is April 30 in each year.

45 Winding-up of the Society

The Society shall continue until:

(1) a special resolution for its voluntary winding-up is carried by an affirmative vote of three-quarters of financial members of the Society by postal ballot or at a general meeting convened for that purpose, with due regard to quorum, and subject to a copy of the special resolution being lodged with the chief executive within 1 month of the passing of that special resolution under Part 10 of the Act; or

(2) is wound-up by the Supreme Court under Part

10 of the Act.

46 Distribution of surplus assets to another entity

- (1) This rule applies if the Society:
 - (a) is wound-up under part 10 of the Act; and
 - (b) has surplus assets.
- (2) The surplus assets must not be distributed among the members of the Society.
- (3) The surplus assets must be given to another entity:
 - (a) having objects similar to the Society's objects; and
 - (b) the rules of which prohibit the distribution of the entity's income and assets to its members.
- (4) In this rule— **surplus assets** see section 92(3) of the Act.

(2019) Principles, By-Laws and Guidelines

At the 2018 AGM, a new set of Principles, By-Laws and Guidelines was also presented, voted on and accepted. However, after discussion of Item 1 in this document, it was agreed that Council would consider rewording Item 1. This has been completed, with the resulting new Item 1 and additional Item 2. These will be tabled for discussion at the Annual General Meeting on July 11, 2019 at the Adelaide Convention Centre. Here is a full of copy of the new (2019) Principles, By-Laws and Guidelines.

PRINCIPLES, BY-LAWS AND GUIDELINES FOR AWARDS, GRANTS, JOURNALS, COMMITTEES AND ARCHIVES OF THE AUSTRALIAN SOCIETY FOR PARASITOLOGY INC.

1. INCLUSIVITY PRINCIPLES

The Australian Society for Parasitology Inc., herein referred to as *The Society*, recognises that we operate in a diverse local, national and global community. The Society is committed to sustaining a diverse, culturally inclusive membership and strives to achieve equality in all aspects of its governance, administration, awards and conference participation. Our goal is a socially inclusive membership and we support multi-culturalism and anti-discrimination including non-discrimination on the basis of gender, sexual orientation, race, religion, age or disability. This includes supporting our LGBTQI+ (Lesbian, Gay, Bisexual, Transgender, Queer or Questioning, and Intersex) colleagues by encouraging our members to become part of the ALLY Network. The Society also recognises the importance of participation by Aboriginal and Torres Strait Islanders in parasitology and welcomes all Aboriginal and Torres Strait Islander colleagues and indigenous researchers from all countries.

2. GENDER EQUALITY PRINCIPLES

The Society recognises and values the wealth of talent, creativity and discoveries achieved by women in parasitology. We acknowledge that women continue to be under-represented in the field, particularly at senior levels. The Society is, therefore, committed to gender equality in our

discipline and in the Society. This goal of gender equality is important for two reasons. The first reason relates to the science we conduct. We recognise that women are under-represented at conferences, particularly as invited speakers. Thus, the important contributions and discoveries made by a significant portion of our community remain under-recognised. Second, career development in the sciences is driven not only by publication output but also by prestige measures; thus, equal representation at conferences and recognition through awards is important for women to thrive and develop in their careers.

The Society's Annual General Meeting and Scientific Conference is a focal point of the Society and, therefore, we seek to ensure equality for all participants, and to achieve gender balance at all levels of the meeting including in the Conference Organising Committee, among plenary and invited presentations, and session chairs. The Society additionally aims to ensure that its meetings are safe, and held in inclusive venues to promote active engagement and discussion, the aim being to promote responsible participation in business and social events by all delegates and committee members, so that all participants can experience all the benefits of our meetings. These goals will be achieved by: working with conference partners, sponsors and co-hosts to ensure that they adopt and enact gender equality policies at the outset of their conference organisation; and auditing our meetings to gauge how we have performed in gender equality and inclusivity, and using this information to guide development of future conferences.

The Society is also committed to achieving gender

2019 Principles, By-Laws and Guidelines continued

equality across all its Committees including, but not limited to, its Council, Bancroft-Mackerras Medal Selection Committee, J.F.A. Sprent Prize Selection Committee, Research Network Committee, Concepts in Parasitology Organising and Curriculum Committee and lecturers, Education Committee, and the Editorial Boards of the Society's journals, including *The International Journal for Parasitology (IJP)*, *IJP: Parasites and Wildlife*, and *IJP: Drugs and Drug Resistance*.

3. AWARDS

The Society recognises that prizes and awards to individual members for outstanding achievement has the ability to inspire others and further the discipline. The Society, therefore, sponsors the following awards:

3.1. The Bancroft-Mackerras Medal of the Australian Society for Parasitology

A medal and certificate to be presented to an Ordinary member or Fellow who, in the opinion of a selection committee appointed by the Council, has made an outstanding contribution to the science of parasitology, particularly in work published during the last 5 years. Nominations are to be called for yearly but the award need not be given every year. The medal will be known as "The Bancroft-Mackerras Medal of the Australian Society for Parasitology". The Medal commemorates the contribution of the Bancroft-Mackerras dynasty to the development of the discipline of parasitology in Australia from the 1860s to 1960s. The recipient will deliver an oration at the annual conference of the Society, receive reimbursement of reasonable travel costs to the conference at which the medal is presented and will be a guest of the Society for the duration of the conference. The procedure for selection of the recipient is as follows:

(a) Council shall appoint a committee of five

from its Fellowship and this shall be called "The Bancroft-Mackerras Medal Selection Committee" (Council responsibility stops here and it must be prepared to have faith in the committee that it appoints, the members of which it has previously elected to its Fellowship and, thus, Council may only endorse the committee's recommendation);

- (b) Each member of the Bancroft-Mackerras Medal Selection Committee shall serve for 5 years, with Council appointing one new member to replace one retiring member each year and retiring members will not be eligible for reappointment until a year has elapsed (this system will ensure both continuity and regular change in membership of the Bancroft-Mackerras Medal Selection Committee);
- (c) Serving members of the Bancroft-Mackerras Medal Selection Committee shall be automatically barred from being nominated themselves or from proposing or seconding someone else, however, members of Council or other office bearers shall not be so barred and the Bancroft-Mackerras Medal Selection Committee shall be able to bring to the notice of the Executive Secretary the name of any candidate it considers worthy of nomination so that the Executive Secretary can encourage such nomination to be made;
- (d) Council appoints a Convenor from among the five members of the Bancroft-Mackerras Medal Selection Committee (when matters pertaining to the Bancroft-Mackerras Medal are to be considered, the Convenor may not divulge the names of nominees for the Medal, but may discuss procedures with the Executive Secretary, who will receive the nominations in the first instance and these will be confidential to him/her also);
- (e) Nominations shall be made by a proposer and a seconder, and consist of (i) a detailed

2019 Principles, By-Laws and Guidelines continued

- statement of nomination describing the nature of the “outstanding contribution to the science of parasitology” for which the nominee has been responsible (the statement should make explicit reference to particular aspects of the research achievements of the nominee and should be signed jointly by proposer and seconder, or each may submit a separate statement), and (ii) a *curriculum vitae* including a list of all publications;
- (f) The permission of the nominee is not required and the nominee need not be made aware of his/her nomination;
 - (g) Nominations should be received by the Executive Secretary of the Society, by 30 September each year and forwarded to the Convenor of the Bancroft-Mackerras Medal Selection Committee;
 - (h) The Convenor shall ensure that all members of the Bancroft-Mackerras Medal Selection Committee receive copies of nominations;
 - (i) Through the Convenor, the Bancroft-Mackerras-Medal Selection Committee may request additional information on any candidate from the nominator or seconder, and may seek the opinion of referees of its own choosing and any such additional information should be supplied to all members of the Bancroft-Mackerras Medal Selection Committee;
 - (j) Each member of the Bancroft-Mackerras-Medal Selection Committee independently ranks the nominations, after eliminating any considered of insufficient calibre, and forwards his/her ranking, with reasons, to the Convenor, who then circulates the individual rankings and reasons to all members of the Bancroft-Mackerras Medal Selection Committee (a period should be allowed for members to consult with each other and, if desired, reconsider final ranking to the Convenor before the nominee with the highest combined rank, *i.e.*, the lowest total score, will become the Bancroft-Mackerras Medal Selection Committee’s recommendation);
 - (k) The Convenor brings to Council the results of the deliberations of the Bancroft-Mackerras Medal Selection Committee for the purpose of formal ratification in the form either of (i) “The Bancroft-Mackerras Medal Selection Committee for the selection of the 20_ Bancroft-Mackerras Medallist agrees that (name) is a worthy recipient of the Medal and recommends to Council that the Medal be awarded” or (ii) “It is the recommendation of the Bancroft-Mackerras Medal Selection Committee for the selection of the 20_ Bancroft-Mackerras Medallist that the Medal not be awarded”;
 - (l) Three months in advance of the Annual General Meeting of the Society the President shall advise the recipient, in confidence, of their Award, invite the Medallist to attend the annual conference of the Society so the Medal may be presented in person and request that the recipient present an oration on a subject of their choice but which is appropriate to the occasion;
 - (m) The name of the recipient shall remain confidential to the Bancroft-Mackerras Medal Selection Committee and President until the Convenor brings to Council the results of the deliberations of the Bancroft-Mackerras Medal Selection Committee, preferably at the Council Meeting preceding the Annual General Meeting;
 - (n) The Executive Secretary shall return all nomination documents for unsuccessful nominees to the nominators at least one month before the Annual General Meeting and all correspondence other than that dealing

2019 Principles, By-Laws and Guidelines continued

with the recipient of the Medal, the recipient's nominators and the Bancroft-Mackerras Medal Selection Committee Convenor shall be destroyed;

- (o) Nominations stand only for the year in which they are made, but without prejudice to renomination of unsuccessful candidates in subsequent years.

3.2. The John Frederick Adrian Sprent Prize of the Australian Society for Parasitology

A prize to be presented to a Student member who, in the opinion of a selection committee appointed by the Council, has written an outstanding thesis in parasitology for which the degree of PhD was awarded during the previous 3 years. Nominations are to be called every 3 years but the prize need not be given at every selection. The prize will be known as "The John Fredrick Adrian Sprent Prize of the Australian Society for Parasitology". The prize was established as a result of a donation from, and honours the memory of, Founding Member, Inaugural President and Fellow of the Australian Society for Parasitology, Professor J.F.A. Sprent. The recipient will be awarded a cash prize and certificate, together with a bronze plaque with the image of Professor Sprent on the face, garlanded by the words, "The John Frederick Adrian Sprent Prize" and the words, "Australian Society for Parasitology". A space should be left for engraving the name of the recipient and the year of award beneath the portrait. An interest-bearing account will be maintained, in the name of the Society and operated by the Treasurer, into which money donated by the membership can be received and invested to accrue the best interest. Donations may be sought from time to time by the Treasurer of the Society to maintain sufficient capital to allow a substantial gift to be awarded. The recipient will deliver a lecture at the annual conference of the Society, receive reimbursement of reasonable travel costs to the conference, and will be a guest

of the Society for the duration of the conference. The procedure for selection of the recipient is as follows:

- (a) No age restriction on recipients but the prize shall be made only to a PhD graduate in parasitology of the previous 3 years who was a Student member of the Society for at least 2 years during their PhD candidature;
- (b) A J.F.A. Sprent Prize Selection Committee will be appointed by Council, consisting of four members of the Society, who are deemed by Council to have appropriate experience to serve on the J.F.A. Sprent Prize Selection Committee and, in addition, Council will appoint two or more reserve members to the J.F.A. Sprent Prize Selection Committee in case there are any conflicts of interest;
- (c) The President of the Society will act as Convenor of the J.F.A. Sprent Prize Selection Committee, but will not influence the deliberations or recommendations of the committee except where there is a tie in the voting (the President may delegate convening of the J.F.A. Sprent Prize Selection Committee to another member of Council with Council's agreement if, e.g., the President is potentially conflicted in assessment of candidates);
- (d) The Convenor will rule on situations in which a conflict of interest arises and may replace Committee members with appointments from the reserve list;
- (e) Each member of the J.F.A. Sprent Prize Selection Committee cannot serve consecutively for more than two selections and two members will retire after each selection and be replaced by two new members (this system will ensure both continuity and turnover of the membership of the J.F.A. Sprent Prize Selection Committee);

2019 Principles, By-Laws and Guidelines continued

- (f) The J.F.A. Sprent Prize Selection Committee will assess the nominations for the prize received for each selection and to recommend the name of the recipient (if any) to Council and the entire deliberations of the J.F.A. Sprent Prize Selection Committee will remain strictly confidential to the members of the J.F.A. Sprent Prize Selection Committee and Convenor at that time (Council has the power only to endorse the J.F.A. Sprent Prize Selection Committee's final recommendation);
- (g) Serving members of the J.F.A. Sprent Prize Selection Committee cannot be nominated for the prize, nor can they nominate or second anybody else for the prize but members of Council or other office bearers would not be so barred and the J.F.A. Sprent Prize Selection Committee may bring to the notice of Council the name of any candidate it considers worthy of nomination so that Council, if it agrees, can arrange for such nomination to be made;
- (h) Nominations should be made by a proposer and a seconder who are members of the Australian Society for Parasitology and the nomination should include (i) copies of nominee's thesis, (ii) a detailed statement describing the merits of the candidate's postgraduate research as embodied in the PhD thesis (this statement should be signed jointly by proposer and seconder, or each may submit a separate statement), (iii) a detailed *curriculum vitae*, and (iv) copies of any publications post-dating the PhD submission date;
- (i) The permission of the nominee is not required and the nominee need not be made aware of his/her nomination;
- (j) The call for nominations will be advertised to all members of the Society in the Newsletter(s) of the Society in the calendar year preceding award of the J.F.A. Sprent Prize, with nominations accepted by the Executive Secretary, Australian Society for Parasitology, only until 30 September in the calendar year of advertisement, and forwarded to the President who will provide copies to each member of the J.F.A. Sprent Prize Selection Committee (the J.F.A. Sprent Prize Selection Committee, through the Convenor, may request additional information on any candidate from the proposer or seconder and may seek the opinion of referees of its own choosing, with this additional material being supplied to all members of the Committee);
- (k) Each member independently assesses the nominations, after eliminating any candidate of insufficient calibre, and forwards their recommendation of a recipient with reasons to the Convenor, who then circulates the individual assessments and reasons to all members of the J.F.A. Sprent Prize Selection Committee, whereupon committee members should consult with each other and, after reconsidering their recommendation, submit their final choice to the Convenor (the nominee with the highest number of votes will accordingly become the J.F.A. Sprent Prize Selection Committee's recommendation and, in the event of a tie, the final choice should be made by a simple majority vote of the J.F.A. Sprent Prize Selection Committee, including that of the Convenor, amongst the tied nominees);
- (l) The name of the recipient shall remain confidential to the J.F.A. Sprent Prize Selection Committee and Council until the prize is presented at the annual conference of the Society and all nomination documents for unsuccessful nominees should be returned to the nominator(s) and all correspondence, other than the letter advising the recipient of their selection shall be destroyed.

3.3. J.D. Smyth Award

2019 Principles, By-Laws and Guidelines continued

An award of financial assistance is to be provided to Student members of at least 6 months standing who are enrolled at a recognised Australian university for the purpose of travelling overseas to gain knowledge on techniques that may not be available in Australia, to form liaisons that may benefit their careers in the longer term and to promote the cause of parasitology in Australia. The award is not provided for the primary purpose of attending a conference. The maximum value of the award is to be determined annually by the Council. Recipients are to be chosen by the Research Network Committee.

3.4. The Australian Society for Parasitology Elsevier Lectureships

To complement the scientific presentations at the annual conference of the Society, researchers of international reputation in parasitology may be awarded an Australian Society for Parasitology Elsevier Lectureship and be invited to attend and present their work as:

- *The International Journal for Parasitology Lecturer;*
- *The IJP: Drugs and Drug Resistance Lecturer; or*
- *The IJP: Parasites and Wildlife Lecturer.*

The Society may assist financially in the invited speaker's attendance at the meeting, including the granting of free registration for the meeting.

The Conference Organising Committee will select the annual recipients of the Lectureships and will consider, but not be obliged to select any of, up to four nominees (at least two of which must be women) from each of the Editors of the Society's scientific journals. The Editors will submit their nominees (including *curriculum vitae*) to the

Research Network Convenor by March 31 in the year preceding the annual conference. Lecturers will be selected for the quality of their research, in the context of the conference's scientific themes.

3.5. The Australian Society for Parasitology Student Award

A cash award(s) to be presented at the annual conference to a Student member(s) of the Society who has been financial for at least 3 months prior to the conference, for a presentation of research findings in the form of an oral presentation and/or a poster delivered at the annual conference of the Society and judged, by a sub-committee convened by the Conference Organising Committee, to be of a high degree of excellence. The award(s) need not be given at every meeting.

3.6. The Australian Society for Parasitology Undergraduate Prize

A cash award is to be provided to Australian institutions identified by the Council as offering a suitable course in parasitology, for presentation to the best undergraduate student in parasitology. Selection of individual recipients would be by the institutions according to procedures agreed by the Council. The award may be shared and need not be made every year, at the discretion of the institution.

4. GRANTS

The Society aims to: promote and facilitate interaction between colleagues, peers and potential research partners; communicate the scientific achievements of its members; and create professional development opportunities for them, in particular for postgraduate students and early career postdoctoral fellows. Therefore, the Society provides funding assistance for its members to undertake important, relevant travel.

2019 Principles, By-Laws and Guidelines continued

4.1. Student Conference Travel Grants

Student Conference Travel Grants are available to assist Students members who are enrolled at a recognised Australian university to attend the annual conference of the Society. Eligibility for Student Conference Travel Grants is further limited to individuals who have been financial members for at least 3 months prior to the conference. The funding available each year for the Student Conference Travel Grants will be set by Council.

4.2. Researcher Exchange, Training and Travel Grants

Funding Assistance is available to members of the Society for Researcher Exchanges, Training Courses, Visiting International Lectureships, Workshops and Grant Writing Retreats. This may include: exchanges between laboratories (ranging from a few weeks up to a year); lecture tours by esteemed international scientists; workshops and/or grant writing retreats that promote or foster significant collaboration between members of the Society (e.g., for large scale research undertakings); and training courses (e.g., the Biology of Parasitism Course at Woods Hole) but excluding the Society's Concepts in Parasitology Course, which is already subsidised by the Society. This award scheme does not support travel to attend conferences. Guidelines for the distribution of funds are summarised below:

Applicants must be current members of the Society and current employees or students in an Australian institution;

Applicants must clearly describe the purpose of the travel, together with a convincing justification of the benefits to the individual and the Society;

Applications will be considered by a committee convened by the Society's Research Network (the

Research Network Committee);

In each selection round, the Research Network Committee will select the most meritorious application by an eligible student to be awarded a J.D. Smyth Postgraduate Student Travel Award;

The amount of assistance to be provided will depend on the number of worthy applications received each year, with due regard to the budget limitations of the fund and previous history of funding of any individual (awards will, generally, be in the range of \$2,000 to \$10,000 but higher amounts may be considered under exceptional and particularly well explained and justified circumstances);

Applicants must show evidence of either having obtained funds from other sources or show evidence of making genuine attempts to obtain funds from other sources to augment the Society's funding, except for applications for travel wholly within Australia where the funds requested are less than \$2000;

Whilst the Society will provide funds towards travel, accommodation and subsistence for Researcher Exchanges, it is expected that the collaborating laboratories will furnish the costs for the research;

Successful applicants are encouraged to promote the Society during their activities – this may include using the Society logo on presentations, and acknowledging the Society support in any publications resulting from the funded activity (logos and wording to acknowledge the Society's support will be supplied to awardees);

Successful applicants are under an obligation to report back to the Society, with a written report within one month of completion of the proposed program and the report will contain (i) the name of researcher(s), (ii) any outcomes linked to the program (e.g., publications, professional reports, new collaborations or new lines of inquiry resulting from the program, grant applications, new skills

2019 Principles, By-Laws and Guidelines continued

developed etc), (iii) a financial report, including receipts (the length of this report need not exceed two pages but failure to comply with the above will lead to disqualification from future consideration in relation to this fund, and the report may be used in the Society's Newsletter and/or website).

5. SCIENTIFIC JOURNALS

The Society operates three scientific journals to disseminate knowledge of parasitology: *The International Journal for Parasitology*; *IJP: Parasites and Wildlife*; and *IJP: Drugs and Drug Resistance*. The Editors of these journals are appointed by Council for a period of 3 years, with the possibility of re-appointment for further periods of 3 years with no limit to the number of years of continuous service.

The Editors shall review and edit all papers submitted for publication and shall be responsible for the standard of papers published in the Society's journals.

The Editors shall, in consultation with the Council of the Society, appoint such editorial officers as are necessary for administering, and advising on, the editorial policy of each Journal.

The Editors shall formulate the policies for each journal, in consultation with the Society and following discussion with the publishers.

The Editors shall liaise with the publishers of the journals, on all matters relating to each journal.

The Editors shall keep the Society informed of any proposed changes in the format of each journal.

The Editors, or their delegates, shall attend Council meetings and the Annual General Meeting of the Society and provide reports on the journals at each meeting. The Editors shall submit to the

Treasurer by March 31 each year an audited financial statement for each journal for the previous year ending December 31.

6. AUSTRALIAN SOCIETY FOR PARASITOLOGY RESEARCH NETWORK

The Society established a Research Network in 2004, upon the award of substantial funding from the Australian Research Council and the National Health and Medical Research Council. The Council of Society appoints a Convenor and Executive Officer of the Research Network for terms of 3 years, with the possibility of re-appointment for further periods of 3 years with no limit to the number of years of continuous service, to oversee and implement the activities and initiatives of the Research Network to address the following goals:

- to further the strategic development of Australian parasitology research and education;
- to assist the Society in the organisation of an annual scientific conference of the highest quality;
- to assess applications and manage the Society's grants and awards including the Researcher Exchange, Training and Travel Awards, J.D. Smyth Awards, Student Conference Travel Grants, Student Awards, and other awards approved by the Council of the Society from time to time; and
- to raise the awareness of Australian parasitology with the general public through the development of outreach initiatives;
- to produce the Society's Newsletter and maintain the Society's Website.

The level of funding for the activities, grants and awards listed above will be determined by the Council, in its sole discretion, at its meetings each year. The Council may appoint an external organisation as the Administering Organisation for the Research Network and provide that organisation with a grant to carry out the operations and

2019 Principles, By-Laws and Guidelines continued

activities of the Research Network.

The Convenor and Executive Officer are responsible for forming and coordinating a committee (the Research Network Committee) to assess applications for the grants and awards listed above. The Convenor and Executive Officer are also responsible for forming and coordinating a Conference Organising Committee to develop the scientific program of the Society's annual conference each year.

The Convenor and/or Executive Officer of the Research Network shall attend Council meetings and the Annual General Meeting of the Society and provide reports on the Research Network's activities at each meeting.

7. AUSTRALIAN SOCIETY FOR PARASITOLOGY CONCEPTS IN PARASITOLOGY COURSE

A Convenor shall be appointed by Council for a period of 3 years with the possibility of re-appointment for further periods of 3 years with no limit to the number of years of continuous service, to form and coordinate a Concepts in Parasitology Organising and Curriculum Committee to plan, oversee and implement the Society's advanced parasitology course activities and initiatives, which are to:

- provide a comparative overview of the most important topics in parasitology, equipping early career researchers with the conceptual framework, technological know-how and skills to meet the challenges of the future; and
- build on the strength of the Australian parasitological community by having world-experts across a wide range of disciplines share their knowledge with students.

The Convenor, or their delegate, of the Concepts in Parasitology Course Organising and Curriculum Committee shall attend Council meetings and the Annual General Meeting of the Society and provide

reports on the course at each meeting.

8. AUSTRALIAN SOCIETY FOR PARASITOLOGY EDUCATION COMMITTEE

A Convenor shall be appointed by Council for a period of 3 years with the possibility of re-appointment for further periods of 3 years with no limit to the number of years of continuous service, to form and coordinate an Education Committee to plan, oversee and implement the Society's tertiary educational activities and initiatives, which aim to develop a framework and educational resources for parasitology teaching in Australia, identifying basic concepts that will apply to all areas of parasitology.

The Convenor, or their delegate, of the Education Committee shall attend Council meetings and the Annual General Meeting of the Society and provide reports on the Education Committee's activities at each meeting.

9. ARCHIVES

The Society shall maintain appropriate records of its history. These will be overseen by an Archivist, who shall be appointed by Council for a period of 3 years and then subject to re-appointment for further periods of 3 years with no limit to the number of years of continuous service.

The Archivist, or their delegate, shall attend Council meetings and the Annual General Meeting of the Society and provide reports on the Society's records and archives at each meeting including casting and provision of medals, plaques and folios for, e.g., the Society's various awards and Fellowship citations.

10. AFFILIATION

The Society may affiliate with other bodies and

2019 Principles, By-Laws and Guidelines continued

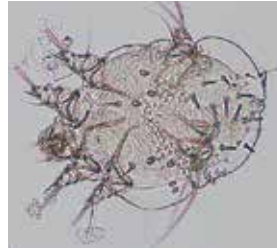
other bodies may affiliate with the Society only on the affirmative vote of two-thirds of the members at a duly called business meeting or of those replying within 30 days to postal ballots issued by the Secretary provided votes are cast by a quorum of members.

The Society shall only affiliate with other bodies having objects similar to those of the Society, and

which shall prohibit the distribution of its or their income and property amongst its or their members to an extent at least as great as that imposed upon this Society.



Over 25 experts
in the field share
their passion



Concepts in Parasitology

2019



25 November -
8 December 2019

Australian
National
University
Kioloa Coastal Campus



**A two-week
course for
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and Early Career
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Concepts covered:
Evolution,
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Cell biology,
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For more information, see our website
parasite.org.au/education/concepts-in-parasitology
or e-mail saralph@unimelb.edu.au



University of Bari, Italy
Department of Veterinary Medicine



European Veterinary
Parasitology College



VII Parasitology Summer Course (ParSCo)

**Residency Course on
PARASITES, ARTHROPOD VECTORS
AND TRANSMITTED PATHOGENS
IN THE MEDITERRANEAN AREA**

22th June to 29th June 2019

For any information, please refer to the secretariat (dedonno.cinzia@gmail.com).

**10TH INTERNATIONAL SYMPOSIUM
FOR FISH PARASITOLOGY****AUSTRALIAN SOCIETY FOR PARASITOLOGY
ANNUAL CONFERENCE****CAIRNS, AUSTRALIA
6-9 JULY 2020****ISFPX**

We are pleased to announce that the 10th International Symposium on Fish Parasites will be held in conjunction with the annual meeting of the Australian Society for Parasitology in Cairns, Australia from 6 - 9 July 2020.

Cairns boasts wonderful weather in July, with temperatures between 17-26 °C and very little rain, and is perfectly placed for exploring everything Queensland has to offer, being on the doorstep of both the Great Barrier Reef and the tropical north Queensland rainforest.

We look forward to seeing you in Cairns in 2020!

**Barbara Nowak & Thomas Cribb
Conference Co-chairs**

ISFPX.ORG

Images from St Kilda

Part 2: memories of the business side of the 2018 ASP Annual Conference held in St Kilda.

Conference talks



Images from St Kilda continued

Annual General meeting

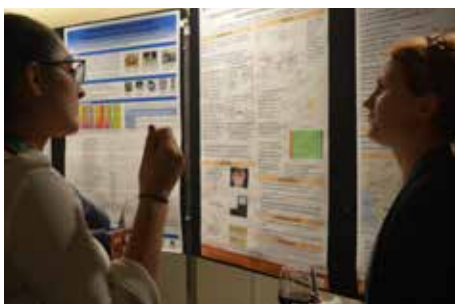
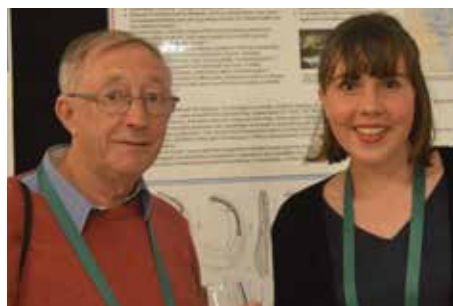


Images from St Kilda continued

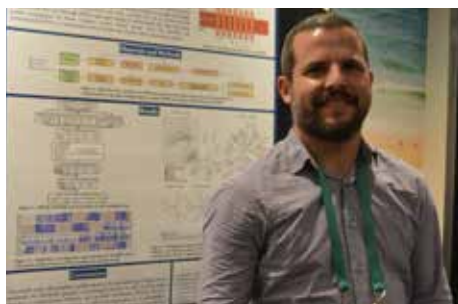
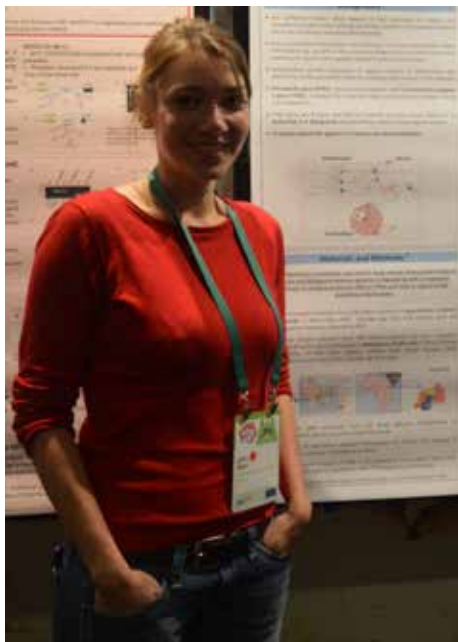
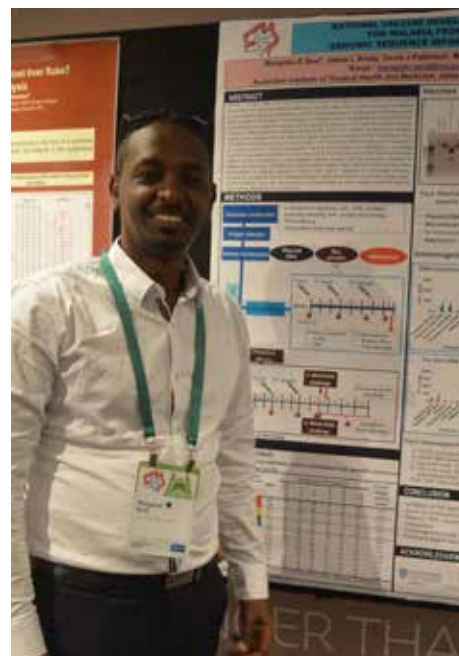
Early Career Researcher events



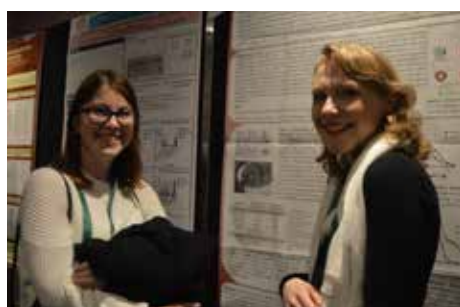
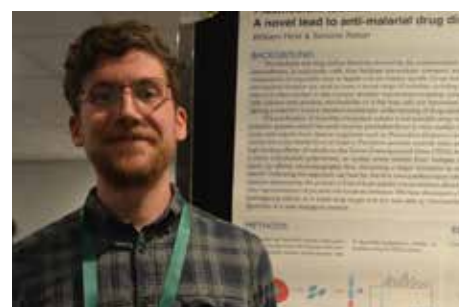
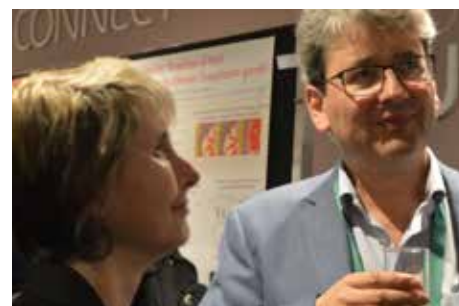
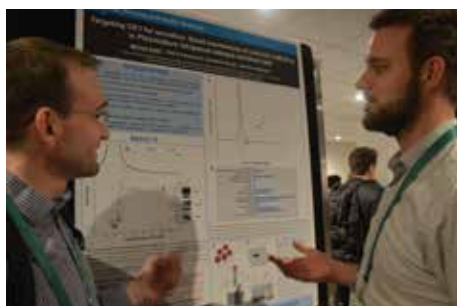
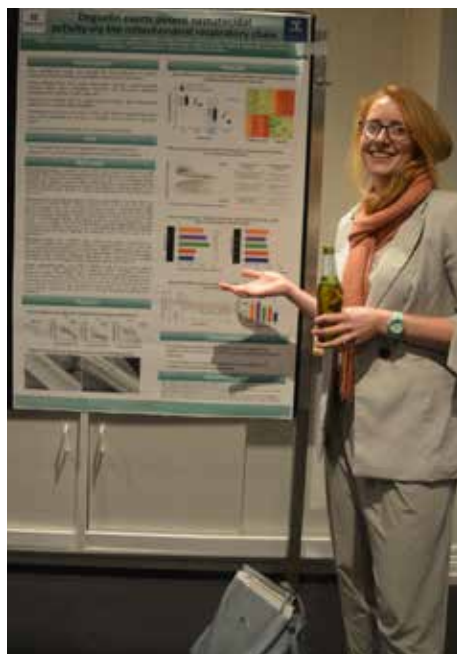
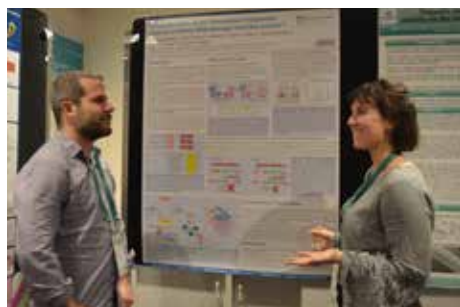
Poster presentations



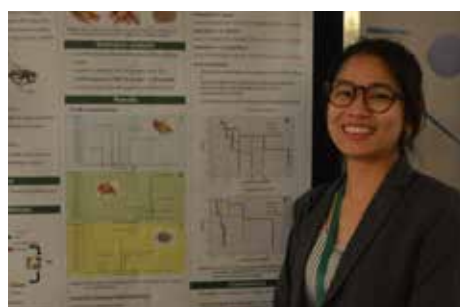
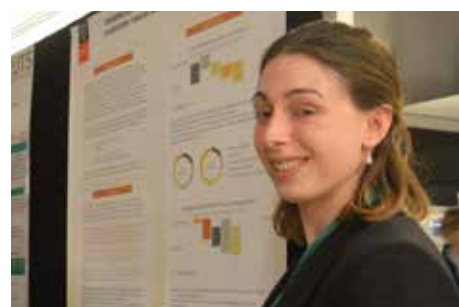
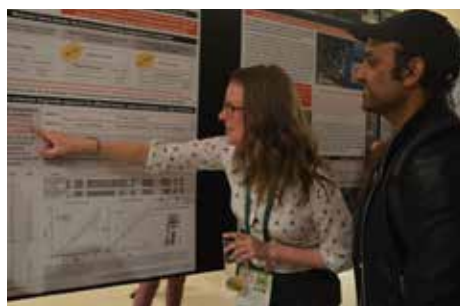
Poster presentations



Poster presentations



Poster presentations



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ASP Council continued

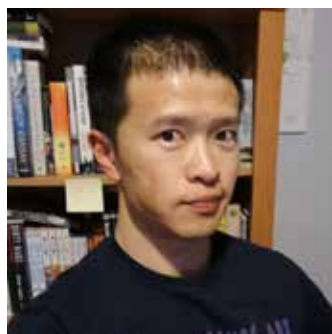
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