

NEWSLETTER

Monash Faculty of Pharmacy and Pharmaceutical Sciences

EMCR Grant Awardees

Graduate Research Symposium

Upcoming Grants and Seminars

FPPS EMCR NEWSLETTER



A letter from the editors

Welcome to the final issue of the FPPS EMCR Newsletter for 2022! As you can see from the cover of this issue, the FPPS EMCR Committee now has an official logo, designed by Sanju Babu Reddiar (see page 5). This logo is designed to illustrate the interconnections and ongoing support between EMCR researchers within the faculty. This idea aligns well with the overarching aims of this newsletter and the EMCR Committee as a whole. In this issue, we are excited to present all of the exciting news from the last few months of EMCR committee events. We are also pleased to celebrate a lot of recent high level success within the talented EMCR community here at the FPPS. There are a couple of events left to round out the year, and we are sure these will be just as well attended and recieved as recent events.

Happy reading!

As always, if you are interested in submitting a cover image, informing us of a grant or publication, are interested in an EMCR spotlight column or have any other contributions relevant to the EMCR community get in touch via:



pharm-emcr-committee@monash.edu



@EMCR_MIPS



MIPS EMCR GROUP

Liam Koehn and Shane Hellyer

*Co-editors in chief,
FPPS EMCR Newsletter*



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FPPS EMCR COMMITTEE COMMITTEE CHAIR'S REPORT

Welcome to the third edition of the EMCR newsletter. Since the last newsletter we have learned about the world of grant budgeting from our faculty's business strategy manager, Rosemary Manning. Many thanks to Rosemary for putting together and presenting this vital information and walking us through the research costing model. I would also like to send out a big thank you to Enyuan, Neil, Jesse and Crystal for organising the workshops. Our next workshop, scheduled for November, will be about how to engage with consumers. This is one not to miss!

In August, we all had an awesome night of relaxation and networking at the Welcome to Brunswick social event, held together with the Parkville Postgraduate Association. The event was an overwhelming success, with many more people attending than we expected. It was a great evening to reconnect the network and build new relationships across the themes at MIPS.

The Monash ECR network ran two events that I hope you all managed to catch. In July, the "HDR supervisor training" provided important skills for EMCRs who are thinking about supervising PhD students. And in October, we learned about "category 2 and 3 funding opportunities" to explore new avenues to fund our research. Remember to keep an eye out on Workplace for more events hosted by the Monash Central ECR Network.

Following on from the success of our first two newsletters, this issue is packed with news and highlights from our pool of talented EMCRs at MIPS. Once again, I would like to thank Shane Hellyer and Liam Koehn for developing such an amazing information resource, not only for the EMCR community but for the entire faculty. We are looking forward to reading this third edition of EMCR newsletter to learn about all the successes and opportunities for the EMCRs at MIPS.

Finally, the EMCR committee would especially like to thank the Faculty of Pharmacy and Pharmaceutical Sciences for their ongoing support for the committee; without this we would be unable to host the social events and workshops. On that note, we hope you enjoy this edition of the EMCR newsletter.

Emma and Benoit.



SOCIAL AND FASTTRACK UPCOMING EVENTS

November

FASTtrack - Consumer Advocates 101

Learn who are consumer advocates, why you should engage with them for project and grant success, how to engage with them and when the best time to engage is.

December

Social & Networking - End of Year Party

Join us to celebrate the close of 2022 over some food and drinks in a relaxed setting. A perfect way to celebrate the achievements of our EMCR cohort over the course of the year.

SOCIAL AND FASTTRACK PAST EVENTS

PhD EMCR Joint Social Event

In August, the Early/Mid Career Researchers (EMCR) committee and the Parkville Postgraduate Association (PPA) hosted a joint social and networking event at "Welcome to Brunswick". Located a short 10 minute tram ride from campus, Welcome to Brunswick provided a relaxed and informal setting with ample food and drinks. Overall, approximately 80 EMCR and PPA members attended the event with a good split of staff versus students. Many commented on the benefits and inclusivity of hosting a joint event with PPA, and it has paved the way for more joint events in the future. Thanks to everyone who attended, it was fantastic to see so many happy faces. We hope to see you all at our Christmas party (details coming to your inbox soon!!).

If you have any feedback on this or other social events, or have ideas regarding new social events, ways to enhance engagement at FPPS EMCR social events or any other comments, please let us know! You can email the committee at pharm-emcr-committee@monash.edu



GRANT WRITING WORKSHOP

The EMCR committee were pleased to host the next Industry & FASTtrack workshop, "Preparing a budget for funding applications". In this workshop, Rosemary Manning, the faculty's Business Strategy Manager, imparted her expert knowledge on using the Monash Research Pricing tool to prepare an accurate budget for funding applications. This workshop was held in a hybrid format across two sessions: Session 1 was held on the 8th of September, where Rosemary introduced key terms and resources for budget preparation. Session 2 was held on the 22nd of September, and here Rosemary showed how to apply the Monash Research Pricing tool to key funding applications (MRFF/ARC). This workshop was a great success and now has more than 20 EMCRs ready to complete their next grant application budget with ease. We look forward to seeing you in our next Industry & FASTtrack workshop!

Resources / Help

- Research office – Gaby, Neil, Alex and team
- Research and revenues team – Joe, Meena, Sherry, Ike (mgmt. accountants)
ResearchAndRevenues-Pharmacy@monash.edu
- Commercialisation support - Cam and team
- Contractual support – OGC (legal team), and MRO (Research Office)
- PURE – applications and awards management
- Researcher dashboard – online system
(see next page)
- Research costing model – next week's topic
- MIPS – Monash Institute of Pharmaceutical Sciences
- FPPS Finance: rosemary.manning@monash.edu, chandler.li@monash.edu

HDR COMMUNITY PAST EVENTS

GRADUATE RESEARCH SYMPOSIUM

On Wednesday the 2nd of November, the 17th Annual Graduate Research Symposium was held at MIPS. Organised by the PPA, this yearly event is designed to showcase the great research that is taking place within the FPPS HDR cohort. Divided between Cossar Hall and Lecture Theatre 1, the day included a mix of both oral and poster presentations from our HDR students, as well as exhibitor stands from a number of sponsor companies. There was an excellent turnout and the organisers would like to say a big thank you to everyone who came along to support the HDR community on this big annual event. The organisers would like to thank the PPA committee and the faculty research, marketing, and bookings offices for their role in organising the event, to the judges who donated their time and to A/Prof Joe Nicolazzo for his contribution to the opening and closing ceremonies.

A number of prizes and awards were given out for the best oral and poster presentations, as well as to audience members for participating in the Q&A sessions after presentations. Congratulations to all the award winners:

- **Most Outstanding Oral Presentation:** Kimberly Vo
- **Second Place Oral Presentation:** Narges Mahdavian
- **Oral Honourable Mention:** Liam Hales
- **People's Choice Oral Award:** Lian (Irene) Xue
- **Oral Encouragement Award:** Felix Bennetts & Peiyuan (Annie) Luo
- **Most Outstanding Poster Presentation:** Jesse Dangerfield
- **Second Place Poster Presentation:** Bonnie Breen
- **Poster Honourable Mention:** Imesha Hettige
- **People's Choice Poster Award:** Joel Syphers
- **Poster Encouragement Award:** Annabel Manoleras

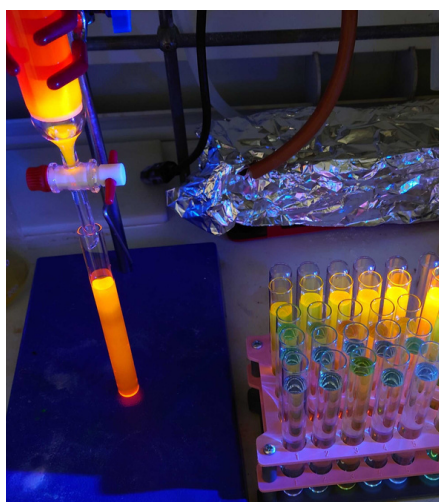


COVER IMAGE

KAI KIKUCHI

Who am I?

I am Kai Kikuchi, a PhD student in the Kaur research group. I have a background in medicinal chemistry, and have spent the last few years in the McErlean research group at the University of Sydney doing natural product synthesis. I've recently moved to MIPS for my PhD. My current research involves the synthesis and application of fluorescent probes for imaging of amyloids (aggregated proteins involved in Alzheimer's disease, among others) at a molecular level, as well as diagnostic tools for the early detection of dementia.



What is the image?

This is a chromatographic purification of a rhodamine derived fluorophore. Our desired compound fluoresces bright orange making it quite easy to see when it elutes from the column.

Why do i love it?

Not only is it a beautiful colour, it is the component of our probe that illuminates (literally!) the events leading to the onset of dementia. In organic synthesis, most compounds we work with are colourless, so to be able to work with such aesthetically pleasing compounds is a real privilege.


NEW FPPS EMCR LOGO

SANJEEVINI BABU REDDIAR

Who am I?

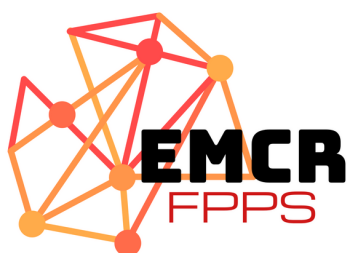
Earlier this year, I completed my PhD from MIPS (Medchem x D4), having researched the factors governing the disposition and BBB permeability of a venom-derived peptide. I am currently working as a research fellow in the Trevaskis group (D4). My research focuses on the use of peptides as research tools to inform the design and delivery of peptides for oral administration and as potential drugs.



 @Sanju_Reddiar

What inspired the logo design?

Procrastination from writing my industry report, peer pressure (Enyuan and Abel) and caffeine! Dots (researchers) and lines (connection) illustrate the importance of creating a strong and supportive network between early and mid-career researchers (colour grading) within our faculty (FPPS).



What do you love most about design?

Design is my creative hobby! It brings me joy and stress relief :)

ANNOUNCEMENTS

NEW FPPS EMCR MEMBERS**Lauren Terry*****Cellular and Molecular Metabolism group; DDB***

Lauren has recently joined Monash Institute of Pharmaceutical Sciences (MIPS) as a postdoctoral research fellow in Prof. Mark Febbraio's lab. Her research interest is phagocytosis and the underlying mechanisms involved in liver disease, such as non-alcoholic fatty liver disease/nonalcoholic steatohepatitis (NAFLD/NASH), and in hepatocellular carcinoma progression. This year, Lauren received her PhD from the Centre of Liver and Gastrointestinal Research at the University of Birmingham, UK. Her PhD project delved into understanding the mechanisms of hepatocyte efferocytosis in health and chronic liver disease, utilising *ex vivo* human liver tissue and *in vivo* murine models of acetaminophen-induced liver injury. Alongside this, Lauren collaborated with AstraZeneca, UK, where she conducted high throughput screening to aid in characterising this mechanism.

**lauren.terry@monash.edu**

ANNOUNCEMENTS

CHANGES TO PARKVILLE PARENTS GROUP

PARKVILLE PARENTS GROUP

The Parkville Parents Group is thinking about changing, and we'd love your feedback!

We are looking for new ways to engage with EMCR and PhD level parents within FPPS, and would love to hear your ideas about what format you would like to see this take. Facebook groups, email list, play-dates etc ...send us your ideas!

Send your ideas and feedback to

amanda.cross@monash.edu

emma.VanDerWesthuizen@monash.edu

CONGRATULATIONS! GRANTS & AWARDS



Harry Al-Wassiti
harry.al-wassiti
@monash.edu

What is the award?

mRNA Victoria Research Acceleration Fund grant (CMRI/MIPS partnership).

What is the research topic?

Combined mRNA and viral gene delivery to treat metabolic liver disease in infants and children.

What is the scientific approach?

CMRI have been working on gene editing using CRISPR-Cas9 (a family of DNA sequences) with the aim to directly repair defective genes in infants and children with ornithine transcarbamylase (OTC) deficiency, a genetic disorder that can lead to progressive liver damage. MIPS has partnered with the CMRI team to make CRISPR-Cas9 gene correction safer by using mRNA technology. The combined expertise in mRNA and gene editing will develop a technological platform for gene correction with broad therapeutic applicability and a universal therapeutic approach to the treatment of infants and children with OTC deficiency.



Enyuan Cao
enyuan.cao
@monash.edu

What is the award?

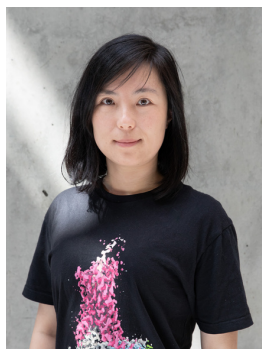
NHMRC - Investigator Grant Emerging Leadership Level 1 (EL1).

What is the research topic?

Harnessing novel lymph-resident targets and lymph-specific therapeutics to fight inflammation.

What is the scientific approach?

My project targets chronic inflammatory diseases in the mesentery, where gut-draining lymphatic vasculature and lymphoid tissues play vital roles in regulating immune cell activity and dietary lipid transport. In turn, dysregulated lipid metabolism and aberrant immune cell infiltration are hallmarks of metabolic disease and gut inflammation. The aim is to identify the mechanisms that can be harnessed to reverse this 'lymphatic-centred pathophysiology' in the mesentery and develop a novel, lymph-specific drug delivery system to better treat gastrointestinal chronic inflammatory diseases.



Cindy Zhang
xin.zhang3
@monash.edu

What is the award?

The DECRA scheme provides research support for early career researchers in teaching and research, and research-only positions. In this round, the Australian Government is funding 200 new projects to provide promising early career researchers with the opportunity to develop and apply their research skills in a supportive environment, in projects important to Australia.

What is the research topic?

Cryo-electron microscopy determination of G protein-coupled receptor states

What is the scientific approach?

To address fundamental knowledge gaps in understanding of the molecular mechanisms of peptide hormone G protein-coupled receptor activation through cryo-EM determination of the structure/dynamics of key intermediate activation states. Novel biochemical approaches will be applied to capture these states, using a broad range of pharmacological tools to facilitate isolation of distinct functional states. The knowledge gained from these studies will advance fundamental understanding of physiologically important receptor activation and efficacy, while the approaches developed will enable similar investigation of other receptor classes.

NEW NEWSLETTER INITIATIVES FOR 2023

HER RESEARCH MATTERS HIGHLIGHT



HER RESEARCH MATTERS
A new regular column from HRM for the EMCR Newsletter aimed at highlighting and promoting equity, diversity and the ongoing amazing leadership and research of female academics.
Starting 2023.  @HRM_MIPS

UPCOMING FUNDING: NOV - MAR

TRAVEL FUNDING & AWARDS

Closing Date	Funding opportunity	Amount	Website
16/12/22	David Goodchild Award	\$2000	https://microscopy.org.au/research-awards/
16/12/22	Thermo Scientific Cowley-Moodie Award	Return airfare	https://microscopy.org.au/research-awards/
16/12/22	Microscopy and Microanalysis Award	\$2000	https://microscopy.org.au/research-awards/
16/12/22	Trans-Tasman Bursary (ECRs)	Travel costs for New Zealand Microscopy Conference	https://microscopy.org.au/research-awards/
16/12/22	The Australian Society for Microbials Poster Travel Award	\$2500	https://www.asainc.net.au/travel-awards/
31/12/22	Epilepsy Society of Australia Travel Scholarship	\$2500	https://www.epilepsy-society.org.au/scholarships-and-awards/the-esa-travel-scholarship.asp
22/01/23	Australia Awards Fellowships	\$30,000	https://www.dfat.gov.au/people-people/australia-awards/australia-awards-fellowships

UPCOMING FUNDING: NOV - MAR

RESEARCH FUNDING & AWARDS

Closing Date	Funding opportunity	Amount	Website
01/03/22	The Medical Research Future Fund (MRFF) Indigenous Health Research Fund	0-\$3,000,000	https://www.nhmrc.gov.au/funding/medical-research-future-fund
09/12/22	DECRA	0-\$477,237	https://www.arc.gov.au/funding-research/funding-schemes/discovery-program/discovery-early-career-researcher-award-decra
Open mid Jan 2023 (forecast)	NHMRC Investigator Grants	Salary support and research support package for up to 5 years	https://www.nhmrc.gov.au/funding/find-funding/investigator-grants
09/12/22	Helen Irving Memorial Award (Lung Cancer)	\$30,000	https://app.eprocure.com.au/lungfoundation/home
forecast 10/12/22	National Taxonomy Research Grants	\$10,000-300,000	https://www.dcceew.gov.au/science-research/abrs/grants

UPCOMING FUNDING: NOV - MAR

FUNDING SEARCH TOOLS

Want to find funding relevant to your research area?
Try the Research Professional funding searchbar:

***Research Professional**

www.researchprofessional.com/funding-opportunities/advanced

Funding

Bio/Medical Engineering & Physical Social Sciences Arts & Humanities Know

Advanced Search

Is any of

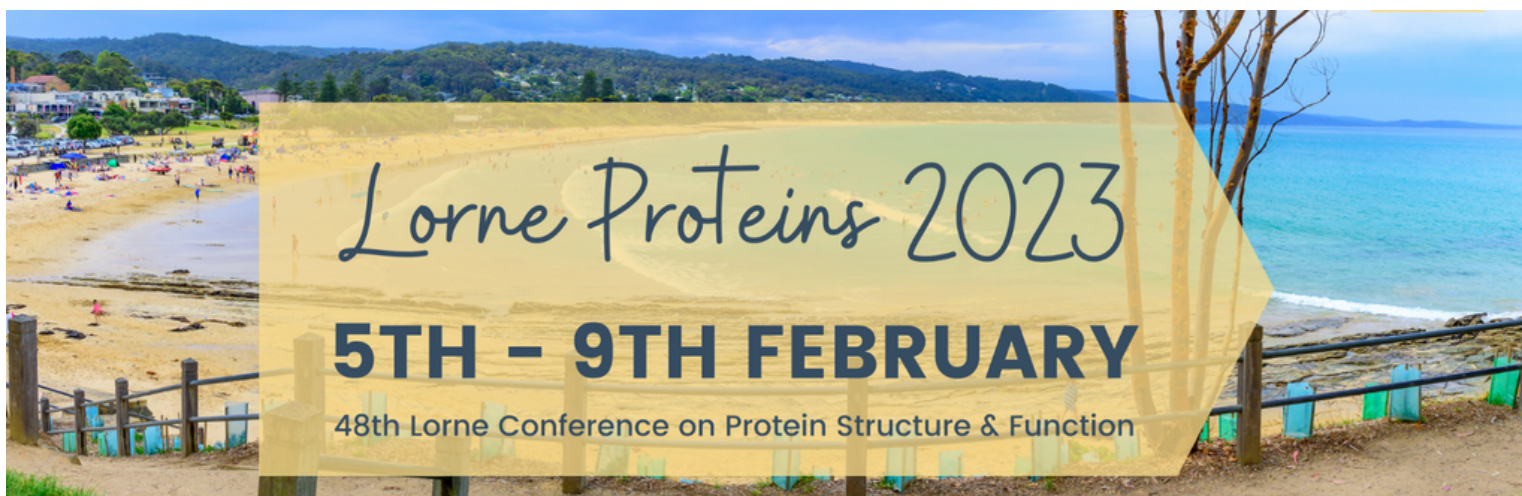
closed
 open to applications from beyond my country

Match:
 all criterion
 any criterion

723 results

UPCOMING CONFERENCES

LORNE PROTEINS



Lorne Proteins CCEMMP Embedded Satellite Meeting 2023

REGISTRATIONS NOW OPEN

We are thrilled to invite you to the 48th Lorne Conference on Protein Structure and Function, taking place on **February 5-9, 2023** in Lorne at the Mantra Hotel.

We are excited to see our friends and colleagues for an exciting program.

[Register Now!](#)

[Join the Mailing List](#)

KEY DATES

ABSTRACT DEADLINE

Friday 14 October

AWARD SUBMISSIONS DEADLINE

Friday 14 October

EARLYBIRD DEADLINE

Friday 4 November

UPCOMING CONFERENCES

ANZSMS & PMV SYMPOSIUM



The Australian and New Zealand
Society for Mass Spectrometry Inc.



2022 ANZSMS and PMV Victorian Mass Spectrometry Symposium

Bio21 Institute, The University of Melbourne
Tuesday, November 15, 2022

2:15PM - 5:00PM

5:00 PM PMV ANNUAL GENERAL MEETING AND NETWORKING @ THE CASTLE HOTEL

KEYNOTE SPEAKER: A/PROF. MICHAEL MARTY FROM THE UNIVERSITY OF ARIZONA, USA,
"COMBINING NANODISCS AND MASS SPECTROMETRY TO STUDY MEMBRANE PROTEIN-LIPID
INTERACTIONS"

NO REGISTRATION REQUIRED

UPCOMING CONFERENCES

NEUROMEDICINES DISCOVERY SYMPOSIUM

Neuromedicines Discovery: Research Symposium

**MONASH**
UniversityTHE UNIVERSITY OF
MELBOURNETHE
FLOREY

"Next Generation Medicines for Better Mental Health"

12 – 5pm, Friday 25th November 2022Lecture Theatre 3, Monash Institute of Pharmaceutical Sciences,
Monash University, 381 Royal Parade, Parkville 3052Registration: <https://forms.gle/4BTs1BhVzoa17mjt5>

UPCOMING SEMINARS

CCEMP SEMINAR SERIESCentre for Cryo-electron
Microscopy of Membrane Proteins

Date	Presenter	Title	Location
December 13th, 10-11am	Doctor Kliment Verba	TBD	Zoom ID: 83465980566 Passcode: 518465

Seminar registration: <https://ccemmp.org/news/ccemmp-seminar-series/>Email jackie.how@monash.edu to be added to the seminar mailing list.**MIPS SEMINAR SERIES**

Date	Presenter	Title	Host	Room
November 18th	Prof Michael Karin University of California, San Diego USA	New insights to ER stress, lipid and glucose metabolism: From NASH to insulin resistance and back	Prof Mark Febbraio	Lecture Theatre 1
December 7th	Prof Kathryn North Murdoch Children's Research Institute	The Nadine Watson Lecture: The Gene for Speed: ACTN3, athletes and human health	Prof Mark Febbraio	Lecture Theatre 1