



Over 100 international pharmacology educators gathered at the Strathclyde Institute of Pharmacy and Biomedical Sciences in Glasgow in advance of the 19th World Congress of Basic and Clinical Pharmacology (WCP 2023) meeting.

Read more on page 5.

Welcome to the first IUPHAR Education Section newsletter! The last few years have been a time of activity and change, with a restructure of the Section in 2021 to include oversight of both the Pharmacology Education Project and the Core Concepts of Pharmacology initiative (page 10), the development and delivery of a WCP 2023 Education Satellite meeting and associated education events at WCP 2023 (pages 5-9), and more recently the welcoming of 20 new councillors (page 3). The WCP2023 Education Satellite was a wonderful opportunity to meet fellow educators (many whom we knew from videocalls but were meeting for the first time in person), bringing together over 100 educators from 20 countries.

Recently we have established working groups (page 11) around communication (from which this newsletter was born!), social media and networking and events. We plan to develop a programme of in person and online educator events on the topics that most matter to you. Please feed back to us what you would like us to run these events on – how to run education research projects, curriculum development, how to best share resources and innovative teaching methodologies are some of the suggestions I received from you at WCP 2023. If you would like to contribute to the section in any way, please reach out.

Professor Clare Guilding, Chair IUPHAR Education Section

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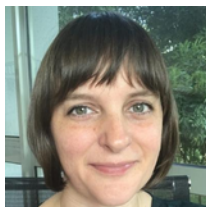
WHO WE ARE AND WHAT WE DO

IUPHAR-Ed is a dynamic global community of educators in basic, clinical and translational fields of pharmacology. We have recently introduced new initiatives to actively promote access to educational materials, collaboratively develop new resources, discuss matters related to pharmacology education and more.

Our aims are to:

- foster, promote, encourage, develop and support innovative teaching, learning and assessment of basic, clinical and translational pharmacology to higher education pharmacology students and wider audiences,
- promote global communication and cooperation between educators/ teachers and other interest groups representing pharmacology and related disciplines,
- create forums to present and exchange ideas related to pharmacology education,
- cooperate or associate, at the discretion of the Section, with relevant international, national and other authorities and bodies,
- be proactive in the development of early-careers educators in pharmacology,
- contribute to the development of sound drug policies globally via means of promoting appropriate education and training in pharmacology,
- contribute to global public awareness and engagement on pharmacological issues promotion of appropriate education and training in pharmacology,
- collaborate with IUPHAR and other IUPHAR sections and committees to develop programs to address the goals listed above.

EXECUTIVE COMMITTEE



Chair:

Professor Clare Guiding
Newcastle University, UK



Vice Chair:

Professor Paul White
Monash University, Australia



Secretary:

Dr Margaret Cunningham
University of Strathclyde, Scotland

Councillors (next page)
Councillors (next page)



READ MORE: [IUPHAR-Ed website](#)

MEET YOUR COUNCILLORS



IUPHAR Education Councillors. Row 1 (L to R): Betty Exintaris (Australia), Lynette Fernandes (Australia), Janet Mifsud (Malta), Kelly Karpa (USA), John Szarek (USA); **Row 2 (L to R):** Jennifer Koenig (England), Paul White (Australia), Nilushi Karunaratne (Australia), Arno Werners (Grenada), Elly Djouma (Australia); **Row 3 (L to R):** Roisin Kelly-Laubscher (Ireland), Octavio Pineros (Colombia), Carolina Restini (USA), Willmann Liang (Hong Kong), Ahmed Wahid (Egypt); **Row 4 (L to R):** Xuechu Zhen (China), Farhan Ahmad Khan (India), Alexandra Conibear (England), Kazunao Kondo (Japan), Anna-Marie Babey (Australia).

IN MEMORY OF PROFESSOR ELIZABETH (LIZ) DAVIS



This first IUPHAR-Ed newsletter is dedicated to the memory of Elizabeth Davis who tragically passed away on October 26 in 2021 due to an unexpected cardiovascular event. Associate Professor Barbara Kemp-Harper delivered a moving tribute to Liz at the Education Satellite Meeting in Glasgow:

Professor Elizabeth (Liz) Davis was a valued friend and colleague and an outstanding Pharmacology Educator. She joined the Department of Pharmacology at Monash University, Australia as an Honours student in 1982, arriving from University of Queensland, and was awarded her PhD in 1992.

From her start as a junior academic in the Department of Pharmacology through to her leadership as Head of Teaching and Director of Education within the Biomedicine Discovery Institute at Monash University, Liz was always focussed on ensuring the best educational experience for students and was a passionate advocate for teaching excellence.

Liz's reputation for excellence and leadership in education was recognised both nationally and internationally. She was appointed as the first Education Focused academic at Monash University (2010), awarded the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT) Teaching Excellence Award (2013), the Monash University Vice Chancellor's Teaching Excellence award (2019) and an Australian Award for University Teaching for outstanding contributions to student learning (AAUT citation; 2019).

Through her roles as the inaugural Chair of the ASCEPT Education Forum (2007-2013; 2018-2020) and Chair of the IUPHAR Education Section (2018-2021), she worked tirelessly to raise the profile of pharmacology education and develop pharmacology curricula. Liz brought together a community of pharmacology educators, organising workshops and symposia to promote the exchange of ideas and innovations and inspiring the next generation of academics.

Liz was a valued mentor to many colleagues both within ASCEPT, IUPHAR and the wider education community. She helped junior academics develop and excel in their own teaching portfolios, sharing her experiences and educational approaches and was always generous in her help and advice. Liz's collegiality and inclusive leadership extended to all of her colleagues.

Liz has left a lasting legacy and her vision in pharmacology education will continue through her students, mentees, colleagues and friends.



Associate Professor Barb Kemp-Harper delivered a moving tribute to her friend and colleague Elizabeth Davis at the Education Satellite Meeting as part of WCP 2023.



[Read the tribute from Liz's colleagues at Monash](#)

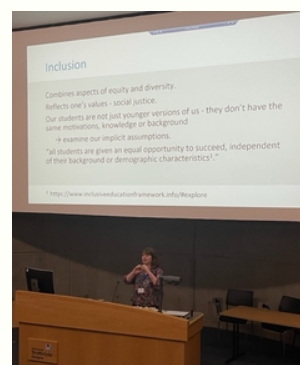
The Education Satellite Meeting which was held on 1-2 July 2023 at the Strathclyde Institute of Pharmacy and Biomedical Sciences at the University of Strathclyde brought together 100 educators from 58 different institutes from across 6 continents who shared their ideas, expertise, resources, and innovations as part of a diverse program.



The organising committee was led by Clare Gilding (middle) and Maggie Cunningham (left) with support from Kirstin Engel (right) at the British Pharmacological Society.



Jorge Iniguez-Lluhi demonstrating (left) concepts such as affinity and efficacy using the analogy of a bell and balls!



Graham Mackay (top) and Jennifer Koenig (left) gave insightful presentations on Equity, Diversity and Inclusion in Pharmacology.



From collaborative brainstorming sessions to insightful discussions to perusing poster presentations on display, the Education Satellite meeting had it all!



IUPHAR-Ed Councillors Carolina Restini (left) and Roisin Kelly-Laubscher (right) strike a pose!



READ MORE: [Putting Pharmacology Education on the Map](#)



More highlights from the Education Satellite meeting



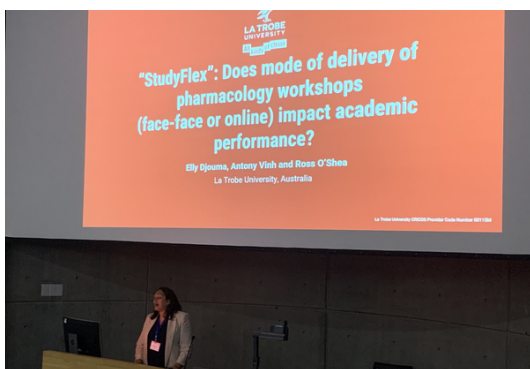
There were many opportunities to connect with colleagues over tea and coffee, and for deep pharmacology discussions down at the local pub.



Fantastic presentations on both days of the education satellite drew the crowds (right)!



Education Satellite Dinner on Day 1 at Ardnamurchan Scottish Restaurant and Bar (top).



Elly Djouma presenting on how pharmacology workshop attendance correlates with academic performance independent of mode of delivery.



Scott Walker and Rebecca Hancock speaking about an IPE collaboration between medic and pharmacy students from University of Newcastle.

CONGRATULATIONS TO OUR IUPHAR-ED AWARD WINNERS!

At each world congress satellite meeting, IUPHAR-Ed presents two awards. **The newly titled IUPHAR-Ed Elizabeth Davis Teaching Excellence Award was presented to Professor Paul White, Deputy Dean and Associate Dean Education at the Faculty of Pharmacy and Pharmaceutical Sciences (FPPS) at Monash University in Australia.** Paul presented work on his Faculty transition to active learning over the past decade, and his recent work as co-lead of the core concepts of pharmacology project (see page 10).

"I was tremendously honoured to receive the Elizabeth Davis Teaching Excellence Award from IUPHAR-Ed. Liz was a wonderful person, and an inspiring, selfless leader who always tried to help other educators achieve their goals. We miss her greatly. I feel that IUPHAR-Ed provides an international 'home ground' to me and many other pharmacology educators, so it's a real career highlight to receive this award. I hope I can do my part to carry on Liz's legacy of supporting young pharmacology educators."

Professor Paul White



Professor Paul White being awarded a traditional Scottish Quaich from Maggie Cunningham.



Nel also won the best education poster prize at the main WCP meeting!



Professor Clare Guidling presents Professor Paul White and Dr Nilushi Karunaratne with their IUPHAR-Ed awards (top). After arriving a day late due to a cancelled flight and without her luggage, Dr Nilushi Karunaratne takes it in her stride and delivers a stellar presentation (right).

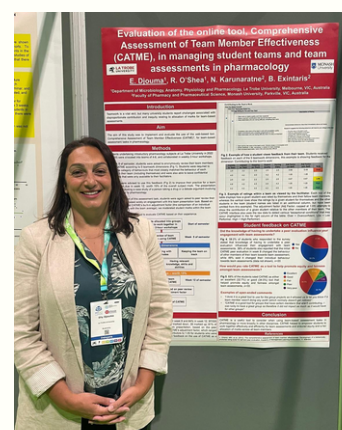
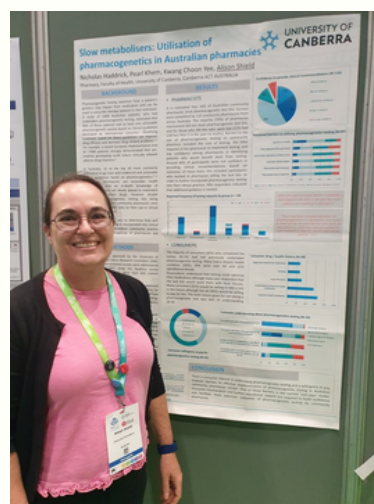
The IUPHAR-Ed Outstanding Early Career Educator Award was presented to **Dr Nilushi (Nel) Karunaratne, an Early Career Academic also from FPPS at Monash University.** Dr Karunaratne outlined Monash University's Skills Coaching Program, which fosters student empowerment, integrates authentic learning experiences, and enhances essential skills for a dynamic job market. The session provided insights on implementing this learner-centered program and empowering students to articulate and improve their skills.

"I am very honored to receive the IUPHAR-Ed Outstanding Early Career Educator Award. This award represents the culmination of what I have achieved in my role as an early educator and it recognises my efforts in shaping the next generation of pharmacology students for a dynamic workforce. I am very appreciative and humbled by this international recognition!" Dr Nilushi Karunaratne

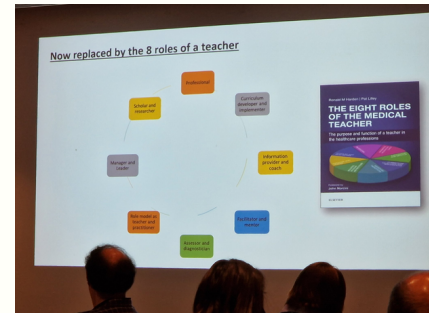
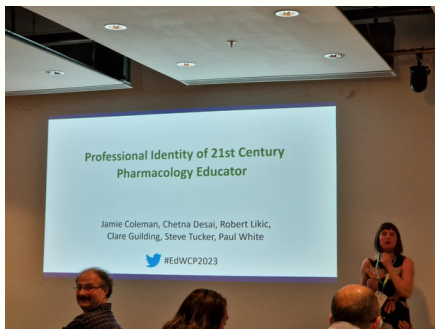
The focus on pharmacology education did not stop with the Education Satellite Meeting but continued throughout the main congress from 2-7 July.



A fantastic interactive Innovations in Pharmacology Education session showcased board games, VR, simulations and more (top and left).



A variety of education posters on diverse topics were presented throughout the congress. Poster sessions provided a great opportunity to network and catch up with colleagues!



The Professional identity of the 21st Century Pharmacology Educator workshop included insightful round-table discussions around being a Teacher for Learning, Technologist, Curator, Collaborator, Experimenter and Scholar Professor. Speakers included Dr Cheil Bakkum (the Netherlands), Dr Robert Likic (Croatia) and Professor Chetna Desai (India).



Re-Imagining Pharmacology Education: Closing The Global Educational Inequalities Gap debate. The panel included Dr David Lewis (UK), Professor Christiaan Brink (Nigeria), Professor Helen Kwanashie (Nigeria), Professor Patangi Rangachari (Canada) and Professor Chetna Desai (India).



The interactive workshop, 'New to Pharmacology Teaching?' offered informal career advice on transitioning to a career in education (left).

CURRENT PROJECTS

IU Core Concepts of
PHARMACOLOGYPHARMACOLOGY
EDUCATION PROJECT
(PEP)

LINK TO PEP PROJECT:

<https://www.pharmacologyeducation.org/>

READ PUBLICATIONS:

The IUPHAR Pharmacology Education Project

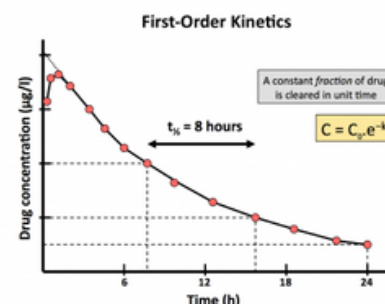
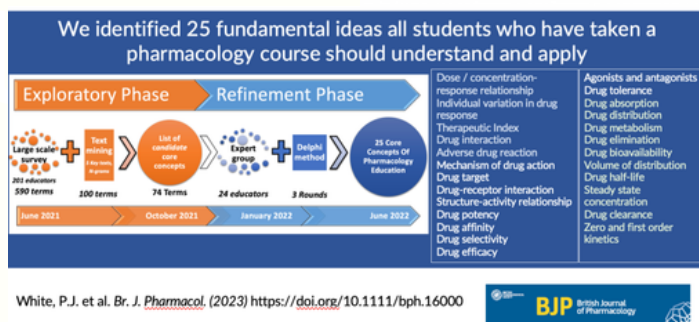
IUPHAR's Pharmacology Education Project (PEP) is a free online learning resource. Its aims are to produce a simple, easily searchable educational resource for students (e.g., in pharmacology and other biomedical sciences such as medicine, nursing and pharmacy), and provide instructional materials for educators. It is hoped that the PEP will prove particularly useful for those in resource-poor countries or in locations where the discipline is currently less developed.

Established in April 2016, PEP now receives over 20,000 visits a month, with ~1.7 million user sessions since inception. Content is created and reviewed by an expert editorial board and welcomes contributions to any aspect of PEP that might be of value for learners.

If you are interesting in contributing content please contact us.



Directors of the PEP project, Professor Simon Maxwell (left) from University of Edinburgh (UK) and Professor John Szarek (right) from Geisinger Commonwealth School of Medicine in Scranton (US).

CORE CONCEPTS (CC)
OF PHARMACOLOGY
PROJECT

Launched in 2021, this ambitious project aims to transform pharmacology education by helping students and educators to focus on the knowledge that matters. To date, the project has produced a global consensus list of core concepts of pharmacology education and defined and unpacked these core concepts. Work is now underway to develop approaches to teaching and assessing these concepts within transformative concept-based curricula. To date, over 300 pharmacology educators from 22 countries across six continents have contributed to the project. If you are interested in getting involved, please contact Paul.White@monash.edu

LINK TO CC PROJECT: <https://coreconceptspharmacology.org/>

READ PUBLICATIONS:

- Identifying the core concepts of pharmacology education: A global initiative
- Defining and unpacking the core concepts of pharmacology: A global initiative
- Developing an international concept-based curriculum for pharmacology education: core concepts and concept inventories



The CC project is led by Professor Paul White, Professor Clare Gilding and Dr Roisin Kelly-Laubscher.

IUPHAR EDUCATION SECTION

OVERVIEW OF SUBCOMMITTEES

SOCIAL MEDIA



Contact: Roisin Kelly-Laubscher
Email: roisinkelly@ucc.ie

The IUPHAR-Ed Social Media Team plays a pivotal role in fostering effective communication and engagement within the pharmacology education community. This committee is responsible for curating and disseminating pertinent information, updates, and educational resources through various social media platforms, including Twitter, LinkedIn, and other relevant channels. By maintaining a strong online presence, the committee ensures that IUPHAR's initiatives, events, research developments, and educational content reach a wider audience, facilitating knowledge sharing and networking among professionals in the field. Their activities are integral to promoting pharmacological education and advancing the society's mission in a digital age.

ONLINE MEETING TEAM



Contact: Anna-Marie Babey
Email: ababey@une.edu.au

The Online Meeting Team is a new initiative of the IUPHAR Education Section. Its goal is to create a community of practice to identify and organise education-focussed activities of interest to the membership in the intervening years between WCP meetings. Our inaugural online session took place on Tuesday 10th October with 19 pharmacology educators from 10 different countries. Discussions ranged from the roles of generative AI in education to ways in which we can better integrate our activities with students and member societies, as well as the frequency with which such events should occur. Attendees contributed a total of 50 topics and themes, which were compiled and circulated to IUPHAR-Ed Councillors, PEP, Core Concepts, Society Education Section Chair members with a request to rank the items in order of interest. Of particular interest were sessions devoted to education scholarship such as creating opportunities for members to learn more about designing and conducting educational research, identifying potential sources of funding, and decision-making about the journals in which to publish the findings. At the meeting of 15th November, the members in attendance decided that the first collaborative session will take place in March 2024. Details will be finalised at the December meeting.

COMMUNICATIONS



Contact Elly Djouma
Email: e.djouma@latrobe.edu.au

The IUPHAR-Ed Communications Team, established in 2023, plays a pivotal role in advancing the global education initiatives of the IUPHAR Education Section. At the core of their responsibilities is the creation of a quarterly newsletter that not only highlights the ongoing activities within the section but also serves as a catalyst for promoting opportunities for engagement, knowledge exchange, and collaboration. Our aim is to help foster a sense of community among IUPHAR-Ed members and educators by reaching a diverse audience and encouraging active participation. The communications team is also responsible for updating content on the website to reflect recent changes to the IUPHAR Education Section.

FUNDRAISING

We are looking for enthusiastic volunteers to form our fundraising team. Please get in touch if you wish to be involved.

PHARMACOLOGY EDUCATION RESOURCES

LINKS TO EDUCATION PAPERS



[Lower scores in pharmacokinetics than in pharmacodynamics assessment among students in a health and life sciences curriculum](#)

[Can Virtual Reality Improve Pharmacology Education in Medical Students?](#)

[Simulation as a Tool to Illustrate Clinical Pharmacology Concepts to Healthcare Program Learners](#)

[Multidimensional evaluation of teaching strategies for pharmacology based on a comprehensive analysis involving 21,269 students](#)

[Active learning for an evidence-based veterinary medicine course during COVID-19](#)

[Crossword puzzle as a learning tool to enhance learning about anticoagulant therapeutics](#)

[Assessment of the capacity of ChatGPT as a self-learning tool in medical pharmacology: a study using MCQs](#)

[A New Vision of Teaching Clinical Pharmacology and Therapeutics for Undergraduate Medical Students](#)

IUPHAR-Ed ONLINE RESOURCES



[eBioPracticals/Simulations](#)



[Other miscellaneous resources](#)

If you have an educational resource or article that you think would be of interest and value to other pharmacology educators that you'd like to share, please contact the communications team by sending an email to Elly: e.djouma@latrobe.edu.au and we can link it in the next newsletter.

IUPHAR EDUCATION SECTION OPPORTUNITIES

GLOBAL JOB ALERTS

>>> [Chair, Department of Integrative Biology and Pharmacology -McGovern Medical School, Houston, Texas \(US\). Applications close Jan 8, 2024](#)

[Scientist - Pharmacokinetics at University of Minnesota, Minneapolis, Minnesota, Applications close, Jan 16, 2024](#)

[See the full list of pharmacology jobs currently listed on ScienceCareers](#)

UPCOMING WORKSHOPS/ACTIVITIES

Collaborative Online Workshop - March, 2024

Details to follow after the IUPHAR-Ed Section meeting on December 19.

Core Concepts Prato Workshop #2 - July 11-12, 2024

Concept-based pharmacology education: Teaching, learning and assessment resources

Purpose of the workshop:

Now that we have identified, defined and unpacked the foundational core concepts of our discipline, our focus turns to resources that educators and students can use to help attain these core concepts.

Our intended outcomes include:

Day 1. Development of concept inventory items (MCQs) from misconceptions studies and using our MCQ database

Day 2. Development of teaching and learning resources for educators specific to student understanding of the core concepts

Our expressions of interest window has now closed as we have as many people as we can fit into the space allocated. There may be an opportunity for a small number of additional participants closer to the time as people finalise their travel (and budget).

We look forward to seeing so many like-minded friends in Italy next year,
Paul White, Clare Guilding and Roisin Kelly-Laubscher, on behalf of the Core Concepts Research Team

IUPHAR EDUCATION SECTION

UPCOMING PHARMACOLOGY MEETINGS

➤➤➤ 16th Congress of the European Association for Clinical Pharmacology and Therapeutics (EACPT) 8-11 June, Rotterdam 2024



16th Congress of EACPT 2024 – Rotterdam, June 8th-11th

➤➤➤ 9th European Congress of Pharmacology (EPHAR) 23-26 June, Athens 2024



➤➤➤ ASCEPT, APFP & APSA Joint Congress 1-4 Dec, Melbourne 2024

➤➤➤ Pharmacology 2024, 10-12 Dec



➤➤➤ ASPET May 16-19, 2024

➤➤➤ 20th World Congress of Basic and Clinical Pharmacology (WCP) 12-17, July Melbourne 2026

FOLLOW IUPHAR-ED ON SOCIAL MEDIA



This issue of the IUPHAR-Ed newsletter was compiled by Elly Djouma, Nilushi Karunaratne and Betty Extinaris. Thank you to everyone that contributed content. The next issue will be distributed to members around mid- March 2024. If you would to be featured in a future newsletter or have any content to contribute please contact the communications team by sending an email to Elly: e.djouma@latrobe.edu.au. The deadline to contribute content for the March newsletter is 29th February, 2024.