

HDD2023 Program

This program will be constantly updated. For the latest document, click http://hdd2023.org/files/HDD2023_Program.pdf and refresh.

HDD2023 lectures will all be at Curtin University in its [Life Science Building \(Building 300\)](#), whereas social events and poster sessions will be held in the foyer and rooftop of the adjacent [Centre for Crop and Disease Management \(Building 304\)](#).



Wednesday 18 January, 2023

- 4 pm Registration – [Centre for Crop and Disease Management \(Building 304\)](#) foyer
- 5 pm *Keynote lecture:* [Todd Gaines](#) (Colorado State University, USA) “The global challenge of herbicide resistance”
- 6 pm Welcome drinks and canapés, ends 8pm (6 canapés)

Thursday 19 January, 2023

- 9 am *Opening address:* [Joel Haywood](#) (Curtin University) “Welcome to HDD2023, the 2nd Herbicide Discovery & Development conference”
- 9.45 am *Keynote lecture:* [Steve Duke](#) (University of Mississippi) “Molecular targets of herbicides and insecticides – are there overlaps that can be useful?”
- 10.30 am Morning tea
- 11.15 am [Luke Guddat](#) (University of Queensland) “Acetolactate synthase: structure and inhibition”
- 12 noon [Tatiana Soares Da Costa](#) (University of Adelaide) “Towards herbicides that target lysine biosynthesis”
- 12.45 pm Lunch (e.g. rolls, sushi, wraps, bao buns, hot savouries) provided
- 1.45 pm *ECR/student session:* [Karen Breese](#) (University of Western Australia) “Probing the phytotoxic structure-activity relationships of the antibacterial agent linezolid”
- 2.20 pm *ECR/student session:* [Grishma Vadlamani](#) (Curtin University) “Safeguarding asulam”
- 2.50 pm *ECR/student session:* [Joel Haywood](#) (Curtin University) “Exploiting plant-specific features of HMG CoA reductase to develop novel herbicides”
- 3.30 pm Afternoon tea
- 4 pm *ECR/student session:* [Hera Nguyen](#) (University of Western Australia) “Genome mining in fungi: uncovering a treasure trove of herbicidal molecules”
- 4.30 pm *ECR/student session:* [Stewart Brown](#) (Newcastle University) “Detecting herbicide metabolites to help understand mechanisms behind herbicide detoxification”
- 5.15 pm Posters, mixer and cooked buffet dinner

Friday 20 January, 2023

- 9 am *Keynote lecture:* [Yi Tang](#) (University of California, Los Angeles) “Natural product discovery for agriculture applications”
- 9.45 am *Keynote lecture:* [Josh Mylne](#) (Curtin University) “Inspiration from medicine as a means to find new herbicide modes of action”
- 10.30 am Morning tea
- 11.15 am [Eva Israel](#) (University of Strathclyde) “Scalable total synthesis of alternaric acid and structure-activity relationship studies deliver a new herbicidal lead”
- 12 noon [Steve Powles](#) (University of Western Australia) “Past, present and future herbicide discovery”
- 12.45 pm Lunch (e.g. rolls, sushi, wraps, bao buns, hot savouries) provided

- 2 pm Daniel Passon and Sabine Kahlau (targenomix, Germany) “Addressing challenges in herbicide discovery by applying a system biology approach”
- 2.45 pm Grant Barry (Davies Collison Cave, Melbourne) “Intellectual Property – What constitutes a ‘patentable invention’?”
- 3.30 pm Afternoon tea
- 4 pm Wen-Chao Yang (Central China Normal University) “Structure and mechanism-based design of 4-hydroxyphenylpyruvate dioxygenase probes and their application”
- 4.30 pm Hudson Takano (Corteva, Indianapolis, USA) “Discovery of a new class of biaryl ether herbicides”
- 5.15 pm Sundowner, drinks and BBQ dinner

Saturday 21 January, 2023

A group is heading to beautiful Rottnest Island for the day, depending on numbers and weather. The trip will be at the expense of each participant (i.e. not included in conference registration). The powerboat we hoped might be skippered over by Prof. Mylne is sadly down one engine for most of January so it will have to be by ferry.

Anyone can book their own ferry to Rottnest Island. Ferries depart from Fremantle and Perth City via [Rottnest Express](http://www.rottnestexpress.com.au/deals) (Phone 1300 467 688, www.rottnestexpress.com.au/deals) or [SeaLink Rottnest Island](http://www.sealinkrottnest.com.au/specials) (Phone 1300 QUOKKA or +61 (0)8 9325 9352, www.sealinkrottnest.com.au/specials).

We will all meet up on the island for lunch at the pub!