ASPS 2021

Adelaide – Brisbane – Canberra – Hobart – Melbourne – Perth – Sydney

8:00-8:45 **Registration**

9:00am **Welcome and Session 1** (Chair: Ibrahim Bourbia)

- **Sergey Shabala** — GABA in regulating plant adaptive responses to hostile soils
- **Joshua Lomax** — Investigating pollen compatibility of commercial sweet cherry cultivars by DNA analysis
- **Kate Johnson** — In vivo monitoring of drought-induced embolism in *Callitris rhomboidea* trees reveals wide variation in branchlet vulnerability and high resistance to tissue death
- **Rose Brinkhoff** — Nitrogen fertiliser increases LAI but creates water costs in *Eucalyptus nitens*
- **Vanessa Tonet** — Water transport failure in minor veins triggers rapid dehydration and damage in *Eucalyptus viminalis* leaves
- **Greg Jordan** — Ancestral state reconstruction of functional characteristics

10:35am **Morning Tea**

11:00am **Session 2** (Chair: Hanh Minh Vo)

- **Beth Penrose** — I love the smell of nodules in the morning: Using a cheap electronic nose to smell clover-rhizobia communication
- **Karen Velandia** — Right place, right time; exploring the action of the plant hormone gibberellin during nodulation
- **Ibrahim Bourbia** — Xylem cavitation isolates leaky flowers during water stress in pyrethrum
- **Beatrice Harrison Day** — Reproductive water supply is prioritised during drought in tomato
- **Travis Britton** — Canopy damage during a natural drought depends on species identity, physiology and stand composition
- **Hassan Ahmed Ibraheem Ahmed** — Development of suberized barrier is critical for ion partitioning between senescent and non-senescent tissues in a succulent halophyte *Sarcocornia quinqueflora*
- **Thais Pfeilsticker** — The rare *Eucalyptus risdonii* is expanding its range under climate change through hybridisation despite hybrid inferiority

12:45pm **Lunch**

2:00pm **ASPS Joint Awards Session**

Goldacre Award Seminar: Joanna Melonek (UWA)
Unlocking the genetic secret of cytoplasmic male sterility and fertility restoration in cereals

Jan Anderson Award Seminar: Kim Johnson (La Trobe)
Developing a passion for cell walls

FBP Best paper: Ximeng Li (Western Sydney)
Water regulation of cotton plants and its response to climate change

Education and Outreach: Kim Johnson and Monika Doblin (La Trobe)
A taste of tomorrow

RN Robertson Lecture: Christine Beveridge (UQ)
Network thinking for shoot architecture and path to impact in food production

4:15pm **Afternoon Tea**

4:30-17:35pm **Session 3 and Close** (Chair: Thais Pfeilsticker)

- **Timothy Brodribb** — Temporal and spatial linkage between xylem failure and leaf damage
- **Kate Wulf** — Investigating the AON and AOM pathway in the novel mutant *K301*
- **Waleed Khan** — Biofortification of zinc in barley for human and animal health
- **Frances Sussmilch** — Triggered at the first sign of stress – examining the evolutionary history of *NCED* genes and abscisic acid biosynthesis in land plants

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