



**Impact for
Children's Health
2024-2025**

LUMINESCE

Alliance

Innovation for Children's Health

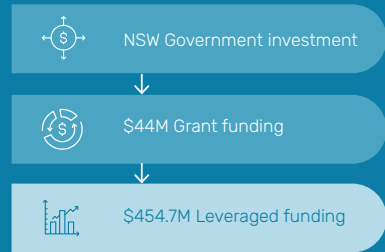


Delivering impact

Achievements since 2019

Exceptional return on investment

10.3x return on NSW Government investment



Global leadership in paediatric precision medicine

- Supported >1000 children and their families with 398 research projects
- 377 national and 153 international collaborations
- 220+ publications
- 204 STEM roles supported
- 40+ presenters at 2024 Conference

Therapeutic innovation

- 34 clinical trials
- Fast-tracked paediatric drug discovery

Genomic innovation

- 246 genomics services accessed by 28 projects
- Australia's only CRISPR-Cas13 program targeting cancer mutations

Data innovation

- Established scalable data enabling platforms
- Established largest computational biology team in Australia

Inclusive research & health equity

- Supported consumer-centred research

Impact for NSW and beyond

- **\$454.7 million additional research funds leveraged** from a \$44 million investment



- **World-leading research** and clinical expertise in paediatric precision medicine
- Fostered **collaboration** within and across Randwick and Westmead Precincts
- Expanded **STEM workforce** and research capacity
- Transferred **knowledge** through publications, media and our Conference



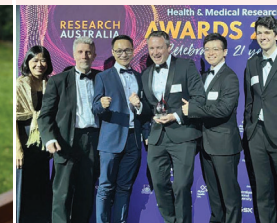
- Supported Sydney Children's Hospitals Network to become a **preferred global site** for paediatric trials
- Reduced clinical implementation of new drugs by 7-10 years through **THINK drug discovery pipeline**



- **Genomic research support for rare diseases**
- **Gene-edited organoids** contributed to AAV therapy development
- Tools for **genome-guided therapy**, doubling survival in high-risk paediatric cancers



- High throughput **patient diagnostics and treatments** > two petabytes (equivalent to 2000 terabytes) scaling to five petabytes in three years
- **Highly Commended** for Digital and Data Health Innovation at **Research Australia's 2024 Awards**



- Supported **15+ psychosocial research projects**
- Co-designed a **world-first social prescribing model** for cerebral palsy
- **Addressed disparities** through the PEACH Program

