



# THE ORIGINS PROJECT BIOBANK:

## Sample collections and utilization upon reaching a project recruitment milestone

D'Vaz N<sup>1</sup>, Kidd C<sup>1</sup>, Rynne F<sup>2</sup>, Gibson L<sup>1,4,6</sup>, Davis J<sup>1,4,6</sup>, Silva D<sup>1,3,4,5,6</sup>, Prescott S<sup>1,4,5,7</sup>

<sup>1</sup>Telethon Kids Institute, Perth, Australia, <sup>2</sup>Western Diagnostic Pathology, Perth Australia, <sup>3</sup>Joondalup Health Campus, Perth, Australia, <sup>4</sup>The University of Western Australia, Perth, Australia,

<sup>5</sup>Edith Cowan University, Perth, Australia, <sup>6</sup>Curtin University, Perth, Australia, <sup>7</sup>NOVA Institute for Health, Baltimore, MD, USA.

### BACKGROUND

The **ORIGINS Project** has reached a milestone in 2023, completing all active recruitments. The ORIGINS Biobank processes, then curates' samples for release to researchers and facilitates novel collections for sub-projects.

### INFRASTRUCTURE



### STRUCTURE

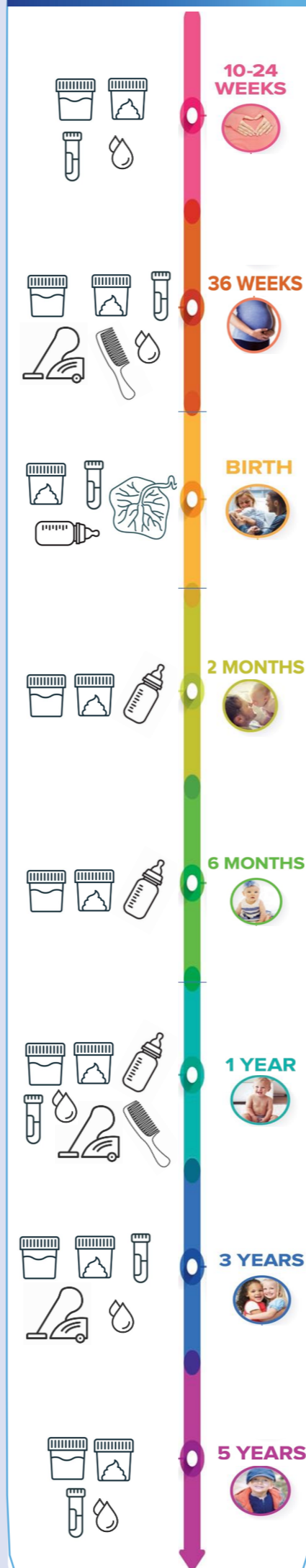
**OVERSIGHT** Committees: Executive and Scientific, Biobank and Data Governance, Consumer and Participant Reference Groups.

**COLLABORATION** across 12 Research Interest Groups. Representative researchers, clinicians and community contribute ideas for project development.

**SUB-PROJECTS** nested within ORIGINS. 39 interventional or observational projects are current, some with specialised sampling protocols.

**CORE PROJECT** sampling and data collection protocols establish ORIGINS as a platform for rapid large-scale research.

### PROTOCOL



### SAMPLE COLLECTIONS

**Maternal:** samples from **5,161**. 1,866 have longitudinal bloods, and 2,572 have longitudinal biologicals. 398 provided samples for more than one pregnancy. **(228,727 aliquots)**

**Non-birthing partner:** samples from **1,073**. 175 have longitudinal biologicals. 23 provided samples for more than one pregnancy. **(22,802 aliquots)**

**Child** samples from **3,283** (incl. 50 twins). 798 have longitudinal bloods & 1,864 have longitudinal biologicals. **(107,599 aliquots)**

### SAMPLE UTILISATION

**32.5%** of active pregnancies have had at least one sample used for research. **(1,288 pregnancies of the 3,959 active cohort)**

**7,476** core and sub-project aliquots distributed to **11** projects. **(2% of the 359,128 aliquots in the Biobank)**

**Including:**

**2,444 stool 555 breast milk 7 meconium 833 plasma**



**520 serum 242 vials cryopreserved cells 394 urine**



**103 whole blood 239 hair 1,641 amniotic tissue & cells**



### LOOKING TO THE FUTURE...

**Establish large cohort-wide analyses** to utilise our sample collections and develop a rich and comprehensive biological databank accessible to researchers.

**Build cross-cohort capabilities** to complement Western Australia's extensive pool of cohort studies. Harmonisation of our collections is key.

### BIOBANK WEBSITE



SCAN HERE to learn more or express your interest in ORIGINS samples for your research!



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### BIOBANK PODCAST

SCAN HERE to hear about the ORIGINS Biobank in an interview with OpenSpecimen!

