

Born in Vienna (BiV) - Pilot Birth Cohort Austria

An excellent cohort from BBMRI.at partner Medical University of Vienna at MedUni Wien Biobank

Scientist Claudia Gundacker and her team at MedUni Vienna build this cohort to investigate early life exposure. This includes chemical exposures, lifestyle, socioeconomic conditions, infections, and even heat stress. The BBMRI.at partner MedUni Wien Biobank takes over secure sample storage.

Profile of the cohort:

Research Area	Early life exposome
Cohort Type	Birth cohort, disease-based
Cohort Size	150-200 participants
Biological Sample Types (with Storage Condition)	<ul style="list-style-type: none"> • EDTA whole blood, serum (-80°C) (maternal blood, cord blood) • Placenta, frozen tissue (~-150°C in liquid nitrogen vapour phase) • Placenta, whole soft tissue (RNA later) • Placenta, whole soft tissue (-80°C) • Selected samples: <ul style="list-style-type: none"> ○ Primary cells (-200°C, liquid nitrogen) ○ Primary cell lysates (cDNA and/or protein, -80°C) ○ FFPE block (RT), cryo blocks (-80°C, Tissue Tek)
Associated Data	Medical record, questionnaire including food frequency questionnaire
Donors Details	<ul style="list-style-type: none"> • Maternal age • Offspring sex • Maternal education and profession • Maternal health/disease status • Maternal area of residence, urban/rural, distance to industry etc. • Diet (FFQ) • Use of dietary supplements, cohort-specific medication etc. • Lifestyle habits such as smoking, diet, exposure sources, etc.
Collection Period	2025-2029
Informed Consent	Broad consent and study specific consent
Access	Yes - collaboration only
Quality Standards	The biological samples are stored at MedUni Wien Biobank, which is included in quality management systems according to ISO 9001:2015
Contact	Principle Investigator: Assoc. Prof. PD. Mag. Dr. Claudia Gundacker claudia.gundacker@meduniwien.ac.at

Publications (scientific)	
Media Artikels	https://lifesciences.shorthandstories.com/world-patient-safety-day/
Research Projects	<ul style="list-style-type: none"> • PARC - European Partnership for the Assessment of Risks from Chemicals • 2022-2027 (EU Horizon Europe)



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[Multimedia story for the World Patient Safety Day 2025 \(by BBMRI-ERIC\): Patient safety from the start >](#)

[BBMRI.at Success Story: World Patient Safety Day 2025 >](#)

[About Claudia Gundacker's Lab \(MedUni Vienna\) >](#)



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Biobanking and
BioMolecular resources
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Exposome Austria
Research Infrastructure
National EIRENE Node

Austrian Cohort Initiative Cohort Profile

BORN IN VIENNA - Pilot Birth Cohort Austria

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Research area	Early-life exposome
Cohort type	Birth cohort
Cohort size	150-200
Sample type	Placenta, maternal & cord blood, serum, primary cells
Data	Medical records, questionnaire, etc.
PI	Prof Claudia Gundacker

Details: <https://bit.ly/4bsoGwe>



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Scientist Prof **Claudia Gundacker** and team build this cohort to investigate early life exposure to non-genetic environmental influences on human health. This includes chemical exposures, lifestyle, infections, socioeconomic conditions, and even heat stress. One of the central questions concerns adverse birth outcomes, such as premature labour, preeclampsia, or low birth weight.

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