



Mini Symposium 13–14 June 2022

Modern medicine meets palaeoanthropology: clinical and evolutionary insights on human birth difficulty

Sunday, 12 June 2022, 18:00: Welcome dinner for invited participants

Monday, 13 June 2022: Short presentations

Room Y16-G-05, Irchel Campus, Winterthurerstrasse 190, 8057 Zurich

- 13:00 Prof. Dr. Dr. **Frank Rühli** (Institute of Evolutionary Medicine, University of Zürich):
Welcoming words
- PD Dr. Dr. med. **Martin Häusler** (Institute of Evolutionary Medicine, University of Zürich): *Introduction*
- 13:10 PD Dr. med. **Nina Kimmich** (Zoom) & Dr. med. **Jana Birri** (Dep. Obstetrics, University Hospital Zürich): *Vaginal birth trauma*
- 13:40 PD Dr. Dr. med. **David Desseauve** (Dep. Gynecology-Obstetrics, Lausanne University Hospital): *Biomechanical vision of childbirth position*
- 14:10 Prof. Dr. **Wenda Trevathan** (New Mexico State University, USA):
The dilemma of the obstetrical dilemma
- 14:40 Dr. **Nicole Webb** (Senckenberg Centre for Human Evolution and Paleoenvironment, Tübingen, Germany): *Birth simulation in chimpanzees: a tight squeeze*
- 14:50 PD. Dr. **Kaspar Staub** (Institute of Evolutionary Medicine, University of Zürich): *Spatio-temporal trends of maternal and neonatal dimensions in Switzerland, 1893-2015*
- ***** Coffee break *****
- 15:30 Prof. Dr. **Karen Rosenberg** (University of Delaware, USA):
The obstetrical dilemma and its history
- 16:00 Prof. Dr. **Robert D. Martin** (The Field Museum, Chicago, USA):
Evolution of the human neonate: A re-appraisal
- 16:30 Dr. **Lia Betti** & Dr. **Nicole Torres-Tamayo** (University of Roehampton, London, UK):
Human variation and the shape of the birth canal
- 17:00 Dr. **Nicole Grunstra** (Konrad-Lorenz Institute, Vienna, Austria):
A comparative zoological approach to the obstetrical dilemma
- 17:30 Prof. Dr. **Philipp Mitteroecker** (University of Vienna, Austria):
Modelling the obstetrical dilemma: on evolutionary trade-offs and local compromises
- 18:00 Discussion, Apéro
- 19:00 ***** Dinner *****

The mini symposium and workshop are public events and the participation is for free. All talks will be in a hybrid format and accessible via the following Zoom link:

<https://uzh.zoom.us/j/96252512250?pwd=a3VFaEtrZ3NNTkVWdXF0ZTlnT3YwQT09> (pass code: 070564)

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WORKSHOP

**Modern medicine meets palaeoanthropology:
clinical and evolutionary insights on human birth difficulty**

Tuesday, 14 June 2022. Room Y42-K-80

9:00 **Introduction**

9:15–10:45 **Theme 1: Birth Positions and Pelvic Floor**

9:15 **PD Dr. med. Anke Reitter** (Fetomaternale Medizin, Spital Zollikerberg, Zürich):
Impact of pregnancy and birth on pelvic diameters

Discussion *all*

11:00–12:30 **Theme 2: Comparative Primatology**

11:00 **Dr. Barbara Fischer** (University of Vienna, Austria):
Sex differences in the pelvis did not evolve de novo in modern humans

Discussion *all*

***** *Lunch* *****

14:00–15:00 **Theme 3: Human Evolution and Modern Human Variation**

14:00 **Dr. Rebeka Rmoutilova** (Charles University in Prague, Czech Republic):
The Regourdou Neanderthal pelvis

Discussion *all*

15:30–16:30 **Theme 4: The Energetics of Gestation and Growth**

15:30 **Cédric Cordey** (Institute of Evolutionary Medicine, University of Zürich):
Is there an energetic threshold during pregnancy?

Discussion *all*

PD Dr. Dr. med. Martin Häusler (Institute of Evolutionary Medicine, University of Zürich): *Concluding remarks*

***** *Dinner* *****

All talks at the beginning of each theme will be in a hybrid format and accessible via the following Zoom link:
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Contact: martin.hausler@iem.uzh.ch or cedric.cordey@uzh.ch; www.iem.uzh.ch



Directions to the IEM

The mini-symposium will be held on Monday, June 13, in the lecture hall Y16-G-05 of Irchel Campus of the University of Zürich (<http://www.plaene.uzh.ch>).

The workshop on Tuesday, June 14, will be held in room Y42-K-80. Follow the signs to the “Anatomische Lehrsammlung” and go to floor K (Anthropological Institute).

Irchel Campus may easily be reached by public transportation via the tram, lines 7, 9, 10, 14 to the stops «Universität Irchel» or «Milchbuck».

