

**BRIDGING THE SCALES IN MECHANOBIOLOGY:  
FROM CYTOSKELETON TO 3D TISSUES  
CYTAC MEETS ME3T SYMPOSIUM**



**MARCH 25-27, 2025**

**ALTE MENSA, WILHELMSPLATZ 3, GÖTTINGEN**

**Tuesday, March 25**

13:30	<b>Arrival &amp; Registration</b>	Foyer
14:30	<b>Sarah Köster &amp; Rudolf Leube</b> <i>Welcome Words</i>	Hannah Vogt Room
14:40	<b>Welcome Bingo</b>	Hannah Vogt Room
15:00	Keynote Talk <b>Mariaceleste Aragona</b> <i>Regulation of tissue architecture by mechanotransduction and stem cell dynamics to sustain homeostasis and repair</i>	Chair: Sophia Götz, Hannah Vogt Room
16:00	<b>Stretch &amp; Coffee Break</b>	Foyer & Emmy Noether Room
16:30	<b>Elena Todisco &amp; Marios K. Martzoukos</b> <i>Functions of cytoskeletal filaments in mammalian oocyte division</i> <b>Liubov Izmaylova</b> <i>Cell-cell junctions during transepithelial trophoblast invasion</i>	Chair: Hannah Kubiza, Hannah Vogt Room
17:30	<b>Poster Flash Talks 1</b>	Chair: Ruben Haag, Hannah Vogt Room
18:00 - 20:00	<b>Poster Session 1 &amp; Dinner</b>	Foyer & Emmy Noether Room

**Wednesday, March 26**

09:00	<b>Keynote Talk</b> <b>Laura Aradilla Zapata</b> <i>Are microtubules mechanical stress antennae?</i>  Chair: Saheli Dey, Hannah Vogt Room
10:00	<b>Coffee Break</b>  Foyer
10:30	<b>Shanay Zafari</b> <i>In vitro cytoskeletal networks through active microrheology at high strains</i> <b>Felix Reul</b> <i>Expanding the mechanobiological toolbox: light-tunable hydrogels for spatiotemporal manipulation of tissue mechanics</i> <b>Madhura Ramani</b> <i>Quantification of stress generation and relaxation in model epithelium</i>  Chair: Niklas Klatt, Hannah Vogt Room
12:00	<b>Lunch</b>  Foyer
13:00	<b>Ruben Haag</b> <i>Keratin networks in epithelial cells under strain</i> <b>Alessa Pabst &amp; Hannah Kubiza</b> <i>Multicellular in vitro systems reveal Piezo1-mediated mechanotransduction in airway and lung</i> <b>Hendrik Bruns</b> <i>Mapping nano scale muscle structure with X-ray diffraction</i>  Chair: Vasudha Turuvekere Krishnamurthy, Hannah Vogt Room
14:30	<b>Stretch &amp; Coffee Break</b>  Foyer & Emmy Noether Room
15:00	<b>Social Event in Göttingen Altstadt</b>
17:30	<b>Poster Flash Talks 2</b>  Chair: Laura Klasen, Hannah Vogt Room
18:00 - 20:00	<b>Poster Session 2 &amp; Dinner</b>  Foyer & Emmy Noether Room

**Thursday, March 27**

09:00 **Teodora Piskova**  
*Age-associated cell density reduction compromises retinal epithelium biomechanics and phagocytosis*

**Niklas Klatt**

*Decoding apical cell cortices: A journey through image analysis*

Chair: Pratima Sawant, Hannah Vogt Room

10:00 **Stretch & Coffee Break**

Foyer & Emmy Noether Room

10:30 **Methods Session 1**

10:30 Method Flash Talks

11:00 Method Discussions

Chair: Eric Platz-Baudin, Hannah Vogt Room & tba

11:30 **Methods Session 2**

11:30 Method Flash Talks

12:00 Method Discussions

Chair: Elena Todisco, Hannah Vogt Room & tba

12:30 **Lunch**

Foyer

13:30 - **Sarah Köster & Rudolf Leube**

14:00 Wrap-Up & Awards

Hannah Vogt Room