

# ANSGAR PETERSEN

Group Leader Musculoskeletal System | Nominee Voting Member



## Scientific Development/ CV:

- Physicist, PhD in Biomedical Engineering
- Group leader „Cellular Biomechanics & Biomaterials“ since 2012 (Julius Wolff Institut) / 2016 (BCRT)
- Member of the BCRT Steering Committee (non-voting) since 2019

## Expertise:

- Exploring the cellular response to physical signals (e.g. geometry, stiffness, mechanical loading)
- Understanding the role of the extracellular matrix in endogenous regeneration processes
- Characterizing cell-material interaction in vitro and in vivo (histology, microscopy incl. confocal-, SHG-, SEM, biomechanics, bioreactors)

## Relevant Projects/ Highlights:

- Biomaterials for endogenous bone defect healing driven by architectural and mechanical cues
- Geometry-driven cell differentiation in biomaterial micro-environments
- Tissue/ extracellular matrix patterning and its role in wound healing

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As a member of the steering committee, my goals are to...

- **strengthen the BCRT community** (joint events „show and learn“, joint projects, joint vision)
- **ensure fair and constructive collaboration** between the fields/disciplines, **transparency of decisions**
- strengthen the **involvement of the BCRT community in the steering process** (learn about your needs, find solutions that serve our goals)
- **provide a clear perspective** for you and your research (what does the BCRT expect from its researchers, what can each researcher expect from the BCRT)
- **consolidate** our role **within the BIH**

we are

**BIH Regeneration**  
BIH Center for Regenerative Therapies (BCRT)