

On the one hand, we are studying traditional cultural techniques such as »Weaving«, »Cutting« and »Filtering« in order to better understand the properties of materials. These partly artisanal practices produce, transfer or process materials. But they also generate knowledge by telling us something about the material, the creators or the environment of the produced goods. One aim of the cluster research is to examine these practices with a long cultural tradition and to make innovative processes out of them.

- Extra-cellular matrix liver at Experimental Surgery Lab. Copyright: Igor Sauer
 Wax moulage from Navena Widulin from the Museum Lab at Berlin Museum of Medical History at
 the Charité. Copyright: Matters of Activity

† Bacterial cellulose curtain, Copyright: Bastian Beyer and Iva Resetar On the other hand, we are investigating the relationship between the material and its form and function, as well as how this can affect objects, people and architectural spaces. Our focus is on the merging of the symbolic and physical dimensions. We no longer conceive the material's inner activity as dysfunctional, but we recognize it as an operative code, re-inventing the analog in times of the digital.

So what does that mean exactly? In the future, you might see surfaces emerging from certain bacterial activities in ways that are closely linked to weaving processes. You might use »one-material devices« that are at the same time soft and hard, flexible and stiff or shape-changing materials that adapt to certain environmental necessities. You will visit exhibitions showing active objects and processes - so far fixed in a certain state. Or your surgeon will use an adaptive digital twin that helps to simulate the intrinsic activity of body tissue in order to make medical procedures even more accurate and safe in the long run. All this is made possible by a new culture of materials and a change of the perspective on the relationship between nature and culture, which is embodied by »Matters of Activity«.

MATTERS OF ACTIVITY

- 40 disciplines
- More than 100 researchers in the first projects
- 8 Cluster professorships

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FUNDING PERIOD

• 1 January 2019-31 December 2025

- Wolfgang Schäffner (Director / Cultural History & Theory)
- Peter Fratzl (Co-Director / Materials Science)
- Claudia Mareis
- (Co-Director / Design & Design Research)
- Horst Bredekamp (Senior Co-Director / Art & Visual History)

HOST INSTITUTION

• Humboldt-Universität zu Berlin

PARTNER INSTITUTIONS

- Charité Universitätsmedizin Berlin
- Freie Universität Berlin
- HTW University of Applied Science
- Max Planck Institute of Colloids and Interfaces
- . Museum of Decorative Arts. State Museums of Berlin. Prussian Cultural Heritage Foundation
- Technische Universität Berlin
- weißensee school of art and design berlin



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