

Charité 3^R: Active support for the 3Rs principles in biomedical research

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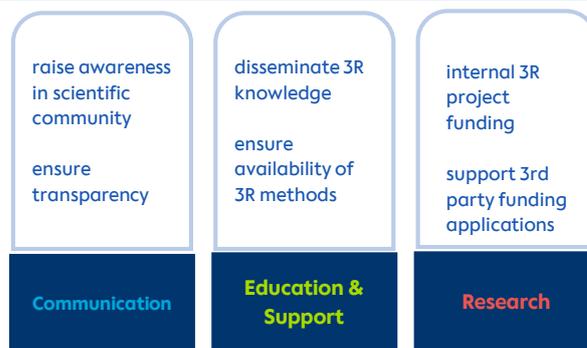
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Background

Bringing about a cultural change in biomedical research, which embodies the 3Rs principles, is part of the vision of Charité 3^R.

Charité 3^R is an infrastructure of Charité - Universitätsmedizin Berlin that was launched in 2018. The Charité is one of the largest university hospitals in Europe, and its approximately 5000 researchers use more than 50,000 animals in experiments each year. Thus, a dedicated 3R center of the university hospital can have a major and targeted impact on the implementation of the 3Rs.

By implementing the 3R principles in research and teaching at the Charité, Charité 3^R aims to support excellent science and better understand, diagnose and treat human diseases.



The 3 pillars and areas of activities of Charité 3^R. The largest part of the budget has so far been used for internal 3R research funding.

Measures for the 3Rs at Charité



Research



Human Models:

- Primary Tissue Pipeline (Biobank)
- 3D Human Organ Model Networking Event

Internal 3Rs research funding & advice

→ Funding Lines | # Projects:

Xenofree *in vitro* science | 5
Human 3D-Models | 3
Adding 3R Value | 16
Young Investigator Award | 4
Interdisciplinary Tandem-Projects | 3
External validity of wildling mouse model | 1
Refinement | 20
Technology Platforms & Research Networks | 2 & 3



Education & Support

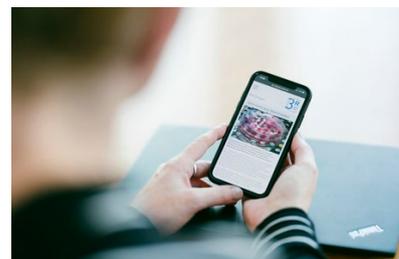


Own 3Rs education program:

- Seminars, Trainings
- Design Thinking (ReThink3R)
- 3R integration in graduate programs and medical studies

Support:

- Charité 3^R Toolbox – useful links
- Internal Refinement Exchange: Refinement Sharepoint & Task Force
- Culture of Care in the animal husbandry



Communication



Target group - public and politics:

- Publication of laboratory animal numbers
- FAQ Animal Experiments and Alternative Methods
- 3R-Research Stories
- Charité 3^R-Newsletter

Highlight:

Movie about the animal husbandry at the Charité



Conclusion

Charité 3^R strongly supports the visibility of the 3Rs in biomedical research, also beyond the Charité. The increasing number of website visits proves this, as do our well-attended events, and the growing demand for 3R research funding. The 56 projects funded so far are matched by 193 proposals. The latter in particular calls for stronger financial support at the state and national level.



Measuring the impact of 3R funding, and the 3R progress in general, beyond quantitative indicators such as the number of publications, remains a challenge. Our performed surveys and interviews are a valuable start.

Webseite

<https://charite3r.charite.de/>



Partners within the Charité



Forschungseinrichtungen für Experimentelle Medizin (FEM)

