



## **BB3R Spring School 2021 – *Ethical and legal aspects of animal experimentation and 3R approaches***

The BB3R Spring Schools are part of the mandatory course program on alternative test methods to animal experimentation within the graduate program BB3R.

This year the VI. BB3R Spring School is organized by the Freie Universität Berlin as an online course. Seminars are open to PhD students and Postdocs working in the field of 3Rs and to interested scientists.

**Date**            **March 24 - March 26, 2021**

**Organization** Freie Universität Berlin  
Institute of Pharmacy  
Dr. Vivian Kral  
Königin-Luise-Str. 2+4  
14195 Berlin

**Registration** Participation is free of charge, but registration is needed.  
Please register until March 12<sup>th</sup>, 2021 by sending an email (indicating your full name and institutional address) to:  
[vivian.kral@fu-berlin.de](mailto:vivian.kral@fu-berlin.de)

The language of the Spring School is English.

The recognition of education credits is available from Apothekerkammer Berlin and ATF.

[www.bb3r.de](http://www.bb3r.de)



## Program

<b>Day 1</b> <i>Wednesday</i> <i>March 24, 2021</i>	<b><i>Ethical and legal Aspects</i></b> <i>Prof. Dr. Christa Thöne-Reineke and Dr. Vivian Kral</i>
10:00 a.m. – 10:15 a.m.	<b>Welcome address</b> <i>Christa Thöne-Reineke</i>
10:15 a.m. – 11:00 a.m.	<b>Ethical perspectives</b> <i>Julia Dietrich</i>
11:00 a.m. – 11:45 a.m.	<b>Perspective of animal welfare officer</b> <i>Kristina Ullmann</i>
<i>11:45 a.m. – 12:30 a.m.</i>	<i>Lunch Break</i>
12:30 a.m. – 1:15 p.m.	<b>Perspective of § 15 TierSchG animal protection commission</b> <i>Christa Thöne-Reineke</i>
1:15 p.m. – 2:00 p.m.	<b>Perspective of the authority</b> <i>Anne Kujawa</i>
<i>2:00 p.m. – 2:15 p.m.</i>	<i>Coffee Break</i>
2:15 p.m. – 3:00 p.m.	<b>Meta-analysis of nontechnical project summaries identifies research areas for 3R development</b> <i>Philipp Schwedhelm</i>
3:00 p.m. – 3:45 p.m.	<b>3D bioprinting models – lung infections</b> <i>Jens Kurreck</i>
3:45 p.m. – 4:15 p.m.	<i>Discussion / Summary of the day</i>

<b>Day 2</b> <i>Thursday</i> <i>March 25, 2021</i>	<b><i>3R Approaches in Research</i></b> <i>Prof. Dr. Horst Spielmann and Prof. Dr. Burkhard Kleuser</i>
10:00 a.m. – 10:15 a.m.	<b>Welcome address</b> <i>Horst Spielmann</i>
10:15 a.m. – 11:00 a.m.	<b>Single cell genomics</b> <i>Malte Spielmann</i>
11:00 a.m. – 11:45 a.m.	<b>Cancer stem cells from TNBC: from basic research to clinical cancer therapy</b> <i>Jochen Maurer</i>
<i>11:45 a.m. – 12:30 a.m.</i>	<i>Lunch Break</i>
12:30 a.m. – 1:15 p.m.	<b>Botulinum neurotoxins: New findings on receptor binding and how they translate into innovative detection approaches</b> <i>Brigitte Dorner</i>
1:15 p.m. – 2:00 p.m.	<b>HUMIMIC technology: a novel approach to predictive substance testing</b> <i>Thi-Phuong Tao</i>
<i>2:00 p.m. – 2:15 p.m.</i>	<i>Coffee Break</i>
2:15 p.m. – 3:00 p.m.	<b>Patient-derived organoids: an advanced animal-free preclinical model for head and neck cancer</b> <i>Ingeborg Tinhofer-Keilholz</i>
3:00 p.m. – 3:45 p.m.	<b>3R approaches in preclinical safety – the industry perspective</b> <i>Thomas Steger-Hartmann</i>
3:45 p.m. – 4:15 p.m.	<i>Discussion / Summary of the day</i>



<b>Day 3</b> <i>Friday</i> <i>March 26, 2021</i>	<b>3R Approaches in Research</b> <i>Prof. Dr. Burkhard Kleuser and Dr. Vivian Kral</i>
9:30 a.m. – 10:15 a.m.	<b>Modelling non-animal models for prediction of chemical toxicity</b> <i>Priyanka Banerjee</i>
10:15 a.m. – 11:00 a.m.	<b>Non-healing skin wound model containing macrophages</b> <i>Priscila Schilrreff</i>
11:00 a.m. – 11:15 a.m.	<i>Coffee break</i>
11:15 a.m. – 12:00 a.m.	<b>On the path towards Replacement, how far have we come?</b> <i>Kathrin Herrmann</i>
12:00 a.m. – 1:00 p.m.	<i>Lunch Break</i>
1:00 p.m. – 4:00 p.m.	<b>Graduate Programm</b>
4:00 p.m. – 4:30 p.m.	<i>Discussion and closing remarks</i> <i>Burkhard Kleuser</i>

Speakers	
<p><b>Dr. Priyanka Banerjee</b> Institute of Physiology Charité - Universitätsmedizin Berlin</p>	<p><b>Dr. Julia Dietrich</b> Institut für Philosophie Freie Universität Berlin</p>
<p><b>Dr. Brigitte G. Dorner</b> Centre for Biological Threats and Special Pathogens Robert Koch-Institut</p>	<p><b>Kathrin Herrmann, PhD</b> Berliner Landesbeauftragte für den Tierschutz Senatsverwaltung für Justiz, Verbraucherschutz und Antidiskriminierung</p>
<p><b>Dr. Vivian Kral</b> Institut für Pharmazie Freie Universität Berlin</p>	<p><b>Prof. Dr. Burkhard Kleuser</b> Institut für Pharmazie Freie Universität Berlin</p>
<p><b>Dr. Anne Kujawa</b> Landesamt für Gesundheit und Soziales (LAGeSo)</p>	<p><b>Prof. Dr. Jens Kurreck</b> Institute of Biotechnology Department of Applied Biochemistry Technische Universität Berlin</p>
<p><b>Dr. Jochen Maurer</b> Klinik für Gynäkologie und Geburtsmedizin Uniklinik RWTH Aachen</p>	<p><b>Dr. Priscila Schilrreff</b> Nanomedicine Research and Development Center Quilmes National University Argentina</p>
<p><b>Dr. Philipp Schwedhelm</b> Bundesinstitut für Risikobewertung Experimentelle Toxikologie und ZEBET</p>	<p><b>Prof. Dr. Horst Spielmann</b> Institut für Pharmazie Freie Universität Berlin</p>
<p><b>Prof. Dr. Malte Spielmann</b> Institut für Humangenetik Universitätsklinikum Schleswig-Holstein</p>	<p><b>Dr. Thomas Steger-Hartmann</b> Research &amp; Development, Pharmaceuticals Investigational Toxicology Bayer AG</p>
<p><b>Prof. Dr. Christa Thöne-Reineke</b> Institute of Animal Welfare, Animal Behavior and Laboratory Animal Science Freie Universität Berlin</p>	<p><b>Thi-Phuong Tao</b> TissUse GmbH</p>
<p><b>Prof. Dr. Ingeborg Tinhofer-Keilholz</b> Klinik für Radioonkologie und Strahlentherapie Charité - Universitätsmedizin Berlin</p>	<p><b>Dr. Kristina Ullmann</b> NUVISAN ICB GmbH</p>