

## NRP 79 – Advancing 3R

Research projects/Forschungsprojekte/Projets de recherche

### **Building and re-building limbs in a dish for development and regeneration**

Focus: Innovation

[Aztekin, Can](#)

EPF Lausanne

Duration: 48 months

CHF 973 304

[can.aztekin@epfl.ch](mailto:can.aztekin@epfl.ch)

### **Impact of current breeding practices on the health and wellbeing of the breeding mouse dam**

Focus: Innovation

[Boyle, Christina](#)

Universität Zürich

Duration: 36 months

353 269 CHF

[boyle@vetphys.uzh.ch](mailto:boyle@vetphys.uzh.ch)

### **Replacement of xenograft mouse models by molecularly-defined 3D in vitro systems**

Focus: Innovation

[Dengjel, Jörn](#); Tibbitt, Mark

Université de Fribourg

Duration: 48 months

CHF 715 666

[joern.dengjel@unifr.ch](mailto:joern.dengjel@unifr.ch)

### **Implementing 3Rs in Switzerland: an interdisciplinary in-depth exploration of barriers and facilitators [Implement-3R]**

Focus: Ethics and society

[Elger, Bernice](#); Würbel, Hanno; Affolter, Markus; Kwak, Brenda Renata; Blattner, Charlotte

Universität Basel

Duration: 48 months

CHF 546 531

[b.elger@unibas.ch](mailto:b.elger@unibas.ch)

### **Using Zophobas morio larvae to design a new in vivo model of intestinal colonisation due to multi-drug-resistant Enterobacterales**

Focus: Innovation

[Endimiani, Andrea](#); Hapfelmeier, Siegfried

Universität Bern

Duration: 36 months

CHF 559 255

[andrea.endimiani@ifik.unibe.ch](mailto:andrea.endimiani@ifik.unibe.ch)

**3R-sTrategies and Harm-benefit analysis: uNderstanding decision-maKING and improving consistency and accountability in animal experiment evaluations in Switzerland [THINK-3R]**

Focus: Ethics and society

[Gaab, Jens](#); Würbel, Hanno; Blattner, Charlotte; Lüscher, Christian; Elger, Bernice

Universität Basel

Duration: 42 months

CHF 444 494

[jens.gaab@unibas.ch](mailto:jens.gaab@unibas.ch)

**A human tumour model for preclinical immunotherapy trials**

Focus: Innovation

[Geiger, Roger](#); Themeli, Maria

Università della Svizzera italiana

Duration: 48 months

CHF 704 535

[roger.geiger@irb.usi.ch](mailto:roger.geiger@irb.usi.ch)

**In vitro epithelium for replacing mice in Salmonella diarrhoea research**

Focus: Innovation

[Hardt, Wolf-Dietrich](#)

ETH Zürich

Duration: 48 months

CHF 410 905

[wolf-dietrich.hardt@micro.biol.ethz.ch](mailto:wolf-dietrich.hardt@micro.biol.ethz.ch)

**Linking animal and human welfare - refining rodent euthanasia**

Focus: Ethics and society

[Hartnack, Sonja](#); Bugnon, Philippe; Seebeck, Petra; Guseva-Canu, Irina

Universität Zürich

Duration: 48 months

CHF 701 634

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**ANIMONE: An in vivo data warehouse for neuroscience – biocuration of preclinical research to inform optimization and exploitation of preclinical studies**

Focus: Implementation

[Ineichen, Benjamin Victor](#); Macleod, Malcolm

Universität Zürich

Duration: 48 months

CHF 698 809

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**Expanding the toolbox of stem cell derived models of embryos**

Focus: Innovation

[Mayran, Alexandre](#)

EPF Lausanne

Duration: 30 months

CHF 815 096

[Alexandre.mayran@epfl.ch](mailto:Alexandre.mayran@epfl.ch)

**Minimising stress and harm for laboratory rodents in oral drug treatments using the micropipette-guided drug administration (MDA) method**

Focus: Implementation

[Meyer, Urs](#); Johansen, Pål; Jirkof, Paulin

Universität Zürich

Duration: 48 months

CHF 997 578

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**Implementation of the 3Rs in Swiss law**

Focus: Ethics and society

[Michel, Margot](#)

Universität Zürich

Duration: 48 months

CHF 488 018 CHF

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**HeartX: Decoding cardiac regulatory landscapes in an all-human model for cardiogenesis**

Focus: Innovation

[Osterwalder, Marco](#); Barozzi, Iros; Zuppinger, Christian

Universität Bern

Duration: 36 months

CHF 948 963

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**Next-generation human iPSC-derived 3D brain model to quantify chemical-induced effects on myelin**

Focus: Innovation

[Pamies, David](#); Zurich Fontanellaz, Marie-Gabrielle

Université de Lausanne

Duration: 36 months

CHF 496 700

[david.pamies@unil.ch](mailto:david.pamies@unil.ch)

**EXPLOR3R: Exploring 3R with experimental ethics**

Focus: Ethics and society

[Persson, Kirsten](#); Bertrand, Julien; Macpherson, Andrew; Elger, Bernice

Universität Basel

Duration: 48 months

CHF 545 528

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**Human Organoid-on-Chip: A Novel Experimental Tool to Replace Animal Models of Rare Bone Disease**

Focus: Innovation

[Qin, Xiao-Hua](#); Müller, Ralph

ETH Zürich

Duration: 48 months

CHF 575 928

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**A regulatory step towards 3R: Refinement of in vitro – in vivo extrapolation (IVIVE) for predictive inhalation toxicology**

Focus: Innovation

[Rothen-Rutishauser, Barbara](#); Blank, Fabian

Université de Fribourg

Duration: 48 months

CHF 687 222

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**Expanding the fish invitrome towards a modular, socio-technical framework for animal-free prediction of chemical toxicity to fish**

Focus: Innovation

[Schirmer, Kristin](#); Groh, Ksenia; Truffer, Bernhard; vom Berg, Colette; Hoekman, Jarno

Eidg. Anstalt für Wasserversorgung (EAWAG)

Duration: 48 months

CHF 999 054

[kristin.schirmer@eawag.ch](mailto:kristin.schirmer@eawag.ch)

**Optimization and validation of mature Toxoplasma gondii tissue cysts generated in vitro**

Focus: Innovation

[Soldati-Favre, Dominique](#); Seeber, Frank ; Blume, Martin

Université de Genève

Duration: 36 months

CHF 478 227

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**Reduction and Replacement of animal models for antiviral testing using 3D human respiratory epithelia**

Focus: Implementation

[Tapparel Vu, Caroline](#); Xenarios, Ioannis; Medaglia, Chiara

Université de Genève

Duration: 48 months

CHF 1 065 072

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**Transcriptome-Guided Reverse Engineering of Human Prostate Cancer**

Focus: Innovation

[Theurillat, Jean-Philippe](#)

Università della Svizzera italiana

Duration: 36 months

CHF 399 205

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**An alternative to the use of live mouse oocytes for the quality control of cryopreserved mouse sperm**

Focus: Innovation

[vom Berg, Johannes](#); Bollwein, Heinrich

Universität Zürich

Duration: 48 months

CHF 291 009

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