## **Department for BioMedical Research (DBMR)**



## Day of BioMedical Research Wednesday, 5 July 2023

b Universität Bern

## **Program**

The Auditorium Ettore Rossi Kinderklinik (KKL), Freiburgstrasse 15, 3010 Bern

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8:30 - 11:30	Foyer Auditorium Ettore Rossi/KR1
	Poster Exhibition with Unitectra, Innovation Office, Grants Office and FELS Network
	Auditorium Ettore Rossi
12:00 – 12:15	Welcome Address Prof. Dr. Mark A. Rubin Director DBMR
12:15 – 13:00	Keynote Lecture Prof. Dr. Hans Clevers Head of pharma Research & Early Development (pRED), Roche (CH) Professor in Molecular Genetics, the University of Utrecht (NL) "Organoids to Model Human Disease"
13:00 – 13:45	Johanna Dürmüller-Bol DBMR Research Award 2023 Welcome Address Mr. Marc Stucki General Manager of the Foundation Johanna Dürmüller-Bol Shortliste Project Presentation moderated by Prof. Dr. Volker Enzmann
13:45 – 14:15	Break Break
14:15 – 14:30	Case Study by Innovation Office
14:30 – 15:00	Award Ceremony Benoît Pochon Prize 2022 Best DBMR Publication 2022 Prize Research Prize Alumni MedBern Poster Prize Best Stem Cell Project DBMR Poster Prizes 2023
	Johanna Dürmüller-Bol DBMR Research Award 2023

Despite abundant drug

effective; only corticoste

Vork Emerging SARS-CoV-2 higher transmissibility specific drug therapy.

 Molnupiravir (Merck) is SARS-CoV-2 replication nucleoside analog.

Through modeling and antiviral therapy with r within-host reproducti within-host transmissibili

Fig. 1: Viral kinetics mode A. Target-cell limited mode



B. Ordinary Differential Eq

 $\frac{dT}{dt} = -\beta TV$   $\frac{dI}{dt} = \beta TV - \delta I$   $\frac{dV}{dt} = (1 - \eta)\eta I - c(1 + \delta)\eta I$ 

## Results

- Viral load dynamics or reached at 5.4 dpi and 28.4 Ctmin at 8.1 dpi.
- An increased Ro resu viral load peaks (25.2 (152-402%), whereas of

Followed by an Apéro

Johanna Dürmüller-Bol DBMR Research Prize by:



Poster Prize Best Stem Cell Project by



Alumni MedBern Research Prize

