

GCB SYMPOSIUM 2022

Faculty of Medicine

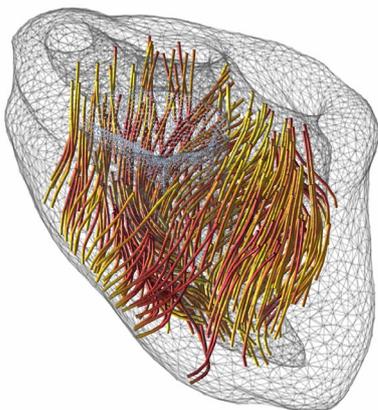
Faculty of Science

Faculty of Veterinary Medicine (Vetsuisse Faculty)

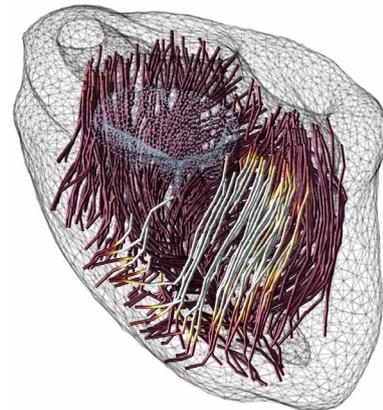
Thursday, January 27, 2022

A)

Pre-MI



Post-MI



Active Stress (Kpa)

95
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60
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Cover figure 1 **Neural Network Finite Element Modeling of the Heart Mechanics: A new look at an old problem**
Prof. Michael Sacks

Important Virtual Platform Information

Links & Moderators GCB Symposium:

1. Register on [ConfTool](https://www.conftool.net/gcb-symp/) to view abstracts,
<https://www.conftool.net/gcb-symp/>
(copy into your browser if you are not redirected by clicking on the link)
2. Install either **Chrome** or **Firefox** as the browser for attending the Symposium
3. Use your University of Bern Zoom account for the Zoom portion of the symposium
4. University of Bern users: **Login to Zoom with your University of Bern Zoom account.**
Instructions are found at this link https://www.unibe.ch/studies/tools_and_work_aids/for_lecturers/e_collaboration/meet_online/zoom_meetings/index_eng.html
(copy into your browser if you are not redirected by clicking on the link)
5. Join the Zoom using the following **GCB Symposium Zoom Link**,
(copy into your browser if you are not redirected by clicking on the link)
<https://us02web.zoom.us/my/gcb.symposium2022>
Password: **2022**
6. The 2022 Symposium Zoom sessions will all be conducted from one Zoom meeting.
Parallel sessions will be managed using breakout rooms.
7. Poster Sessions A & B **GatherTown** - **CHROME or Firefox Browsers:**
Gather Town session link
<https://gather.town/app/uvNS6Ljxtm8UWske/GCB%20Symposium%202022>
(copy into your browser if you are not redirected by clicking on the link)

Thank you to the team that made the virtual symposium possible:

- Prof. Tobias Nef, ATORG
- Dr. Stephan Gerber, ATORG
- **Michael Single, ATORG PhD Student**
michael.single@unibe.ch, "on-site" technical support

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<https://www.conftool.net/gcb-symp/>

GCB Symposium 2022

Welcome Address

Welcome

Dear Participants -
Dear Guests -

It is with great pleasure we invite you to our second virtual GCB Symposium. As much as we hoped for an on-site event, SARS-CoV2 had other plans. An optimistic way to look at this situation is, we all got intensive training to perform at our best using virtual platforms last year - and thus are very confident that the GCB Symposium 2022 will be a full success-relying once more on the outstanding expertise of the online forum of Prof. Tobias Nef and this team from ARTORG.

I would like to express my most sincere thanks to all of you - PhD students, mentors, supervisors, co-advisors and external co-referees, the PhD committee as well as the outstanding GCB team for your constant support and continuing effort to drive the excellence of the doctoral program. Thank you all to have participated in the first survey for the self-assessment for the GCB – which will help us to further improve the program. In that respect we would like to send our gratitude to the Executive Board of the University of Bern and the Deans of the three participating faculties for their continued support.

At the start of 2022, nearly 534 doctoral students from numerous countries worldwide are enrolled in the GCB. Over the course of last year, we registered 127 new applicants and celebrated 117 graduations. This year, 300 students have registered for the symposium which will include: 40 poster talks, 200 poster flashes, and 260 posters. The GCB's more advanced students will present their research work in a talk or a poster, many with an additional «Poster Flash» presentation breaking once more the record of all previous GCB Symposium participations.

Following is a quick summary of the event for the newcomers. Traditionally our annual meeting aims to bring together all PhD students enrolled in the GCB together with their supervisors, co-advisors, and mentors. The symposium is a showcase for the broad spectrum of research going on within the interdisciplinary GCB, encompassing areas of the molecular life sciences, biomedical sciences, epidemiology, biomedical engineering and artificial intelligence, thus promotes extensive scientific exchange and networking among participants. Please take advantage to interact and exchange with your colleagues and peers.

As the largest and oldest Graduate School at the University of Bern, the GCB thesis projects are carried out at the laboratories of the three participating faculties (Faculty of Medicine, Faculty of Science, and Vetsuisse Faculties, Bern and Zurich) or at affiliated institutions. In 2021, these included, among others: the Institute for Research in Biomedicine (IRB) in Bellinzona, the Biotechnology Institute Thurgau (BITg) in Kreuzlingen, the Empa (Swiss Federal Laboratories for Materials Science and Technology, various divisions and sites), Agroscope (Federal Department of Economic Affairs, Education and Research, various divisions and sites), the Swiss Paraplegic Centre, Nottwil, the AO Research Institute in Davos, and the RMS Foundation, Bettlach.

I am very much looking forward to plunging myself into listening to your ongoing research projects, to meeting and exchanging ideas with you. My congratulations to the awardees, yes this year there will be three, of the GCB prize(s) 2021. Enjoy this day.

PD Dr. Monica Schaller,
GCB Coordinator



Gather Town Main Hall

About the (Virtual) Program and Venues

Although, the general format remains recognizably similar, there are a few noteworthy exceptions. The presentations will be made through virtual sessions which will be streamed using the Zoom platform. Poster Talks, Flashes and presentations from current GCB PhD students will form the core of the event. The GCB Award for the three best PhD Theses from 2021 will be honored.

Abstracts

All participants are encouraged to please register at <https://www.conftool.net/gcb-symp/> to view the abstracts. Please note the program contained in this booklet/pdf is the definitive program.

Zoom

Google Chrome- or **Firefox-browser** required, as these are the only browsers supported by Gather.town. Poster Talks and Poster Flash Sessions I and II will be held in the morning. Both sessions are grouped according to the five expert committees and will be held in parallel during each session.

Talks are comprised of four 15-minute presentations in each of the five parallel groups. Each group will be chaired by a GCB Expert Committee member. Poster Flash presentations will be concatenated into one continuous presentation from each author's individual slide. The event organizers will manage the presentation and advance the slides every two minutes, requiring the speakers to be cued and ready to speak. The presenter will not manage the powerpoint presentation. These flash presentations will be held directly following the talks; again, during the two morning sessions according to expert committee.

Gather.town

ONLY supported Browsers
Google Chrome or Firefox

In addition to Zoom, we will use Gather Town. This

is an online virtual gathering space that provides a platform for multiple people and groups to hold separate conversations in parallel, allowing movement between and in and out of rooms and making it possible for conversations to take place as though you are there in person.

Poster presentations A and B will take place in in Gather Town in five parallel sessions according to expert committee. The poster sessions will both be held in the afternoon. The presenting authors will "stand at" their posters during the designated poster session and, therefore; be available to discuss their poster with visitors to their poster. Participants are encouraged to review the program in advance and plan for which posters they wish to visit. Considering, however, the Poster Flash sessions are designed to entice interest in visiting the full poster.

New, this year, we have added a virtual booth showcasing a poster from the Microscopy Imaging Center, as well as posters from the PhD Specializations. Please stop in!

Academic Research Prizes

The GCB PhD Committee has chosen three best PhD three theses from the 2021 graduates. The annual prizes will be awarded by GCB president, Rupert Bruckmaier following the conclusion of the second poster session. The awardees will each be introduced by his/her supervisor and will give a 10-minute talk.

Keynote Address

We are looking forward to the Keynote Address from Prof. Michael Sacks.

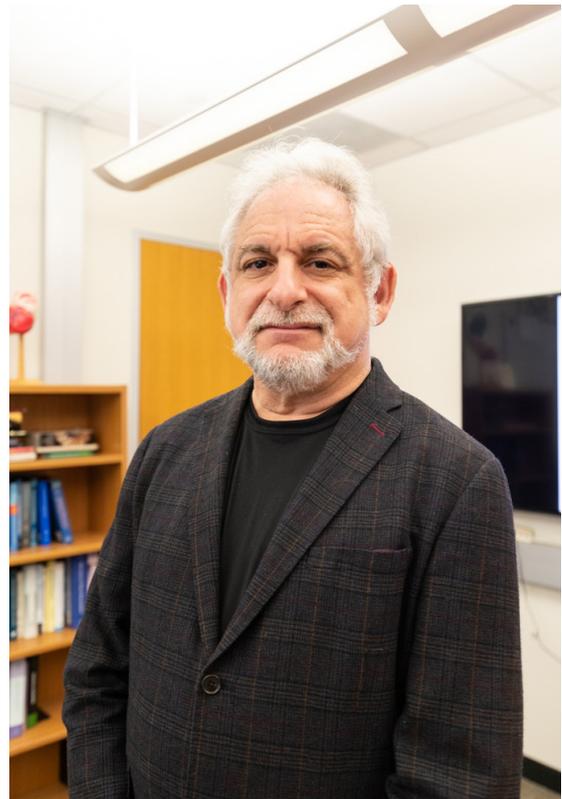
We look forward to seeing you and wish you an engaging and stimulating event.

GCB Symposium Keynote Address

Michael S. Sacks, Ph.D.
W. A. "Tex" Moncrief, Jr. Chair in Simulation-Based
Engineering Sciences
Professor of Biomedical Engineering
Director, The Oden Institute James T. Willerson Center for
Cardiovascular Modeling and Simulation

The University of Texas at Austin
201 East 24th St, Stop C0200
Austin, Texas 78712-1229

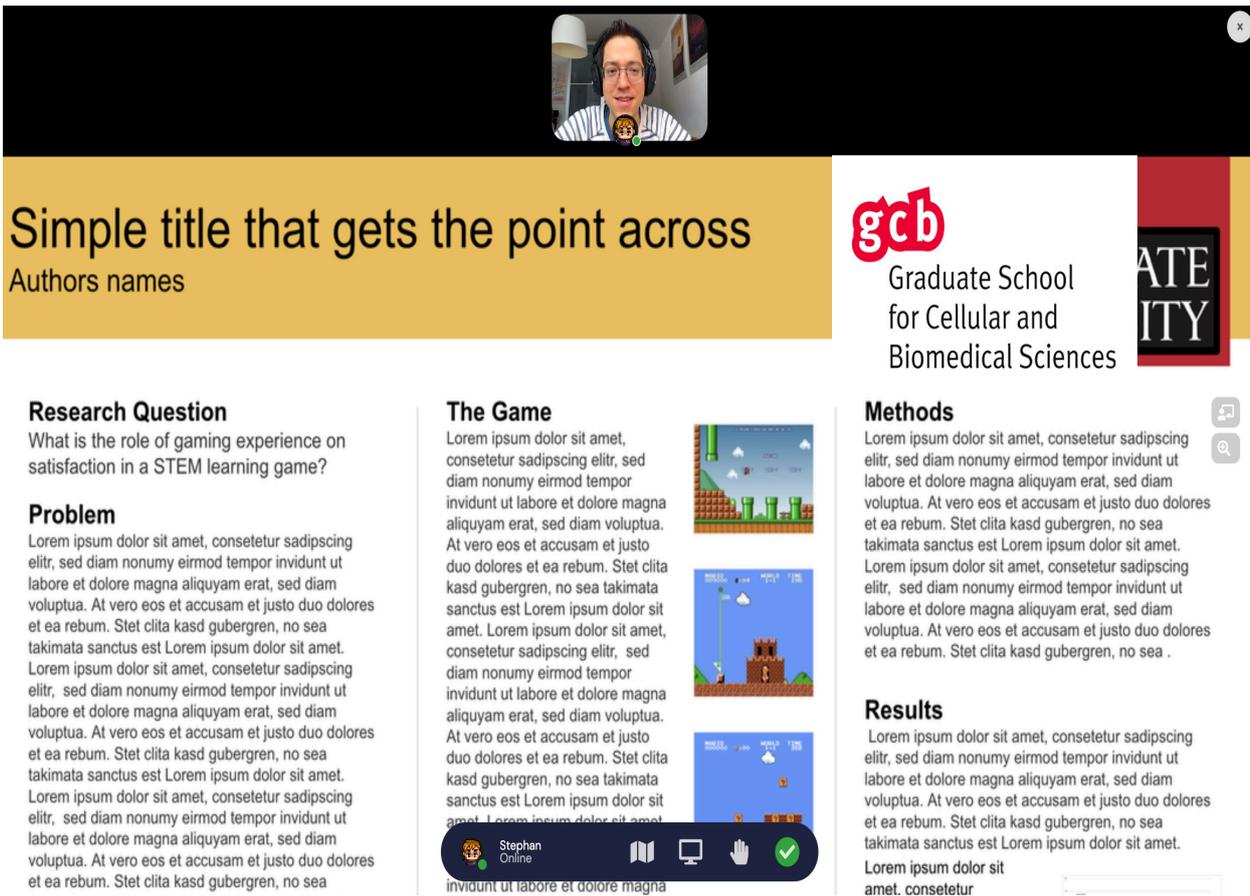
Tel. 512-232-7773
Website: wccms.oden.utexas.edu



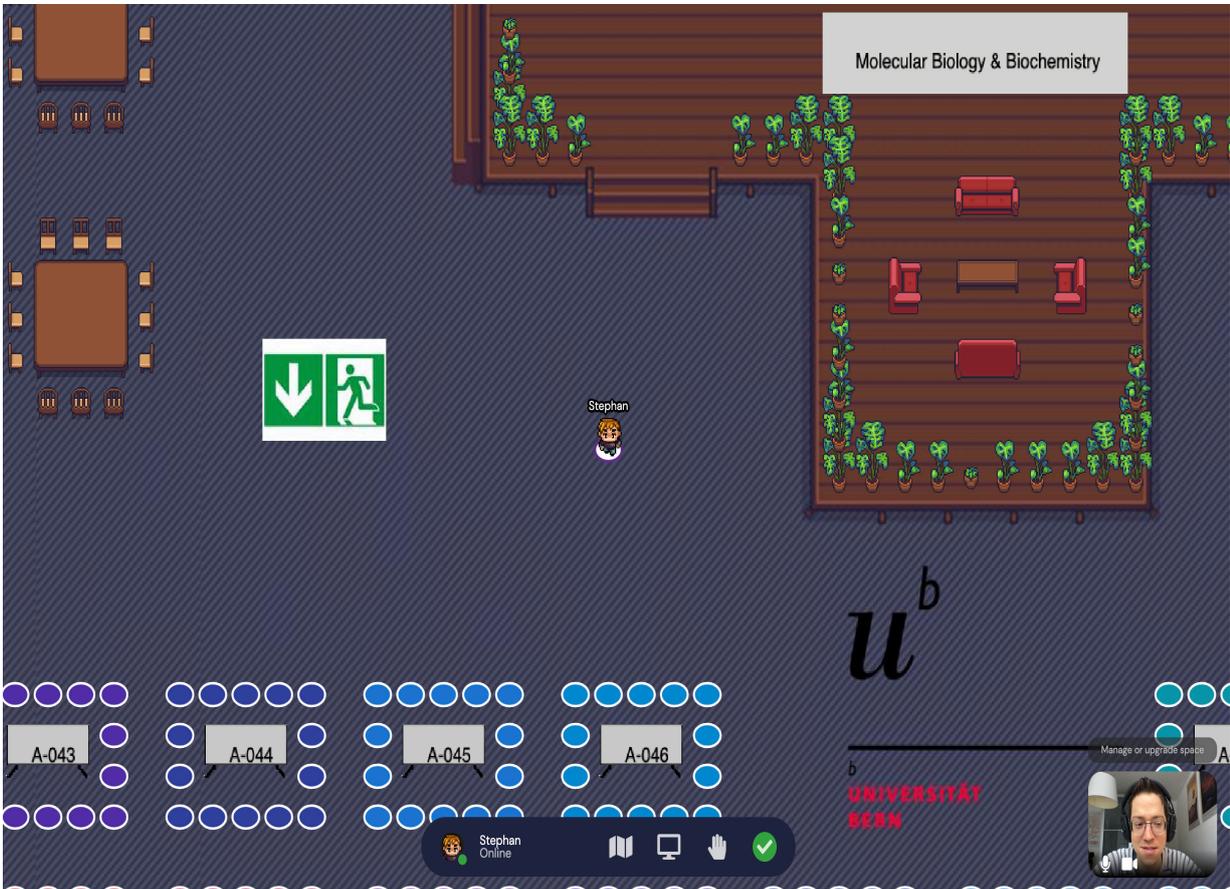
Neural Network Finite Element Modeling of the Heart Mechanics A new look at an old problem

Professor Michael S. Sacks

The full characterization and modeling of three-dimensional (3D) mechanical behaviour the myocardium is essential in understanding the function of the heart in health and disease. The hierarchical structure of the myocardium results in their highly anisotropic mechanical behaviors, with the spatial variations in fiber structure giving rise to heterogeneity. We have developed a novel numerical-experimental approach to determine the optimal parameters for 3D constitutive models of the myocardium using optimal design of full 3D kinematically controlled (triaxial) experiments coupled to an inverse model of the experiment and local fibrous structure. Due to the natural variations in structures, the mechanical behaviors of myocardium can vary dramatically within the heart. Thus, to obtain the responses of the myocardium with different realizations of structures, the resulting hyperelastic problem needs to be solved with spatially varying parameters and in certain cases different boundary conditions. To alleviate the associated computational costs at the time of simulation, we have developed a neural network-based direct PDE solution method. The resulting neural network was then trained in a physics-informed approach by searching for μ that minimizes the potential energy of the hyperelastic problem on the training dataset generated by sampling over the physiological range. The present method is intended for the low data problem; it does not require generating a large, labelled training datasets, which are also computationally intractable. The neural network model was trained with satisfactory convergence, it can be used to give fast predictions of complex 3D deformations in full kinematic space with population-based fiber structures by forward passes in the neural network. Due to their transfer learnability characteristics, the neural network on subsequent specimens more quickly. I will also present scaled up for complete organ-level cardiac models to provide efficient and robust computational models for to improve patient outcomes in clinically relevant timeframes



Gather Town Poster Full Screen



Gather Town Poster Room

Program Overview 08:00 - 17:15

Log in to [Zoom Main Session](https://us02web.zoom.us/j/910120220001) for opening session
<https://us02web.zoom.us/my/gcb.symposium2022>

Password: 2022

(copy into your browser if you are not redirected by clicking on the link)

08:00 - SYMPOSIUM START

Log-in [Zoom Main Session](#) - Chairpersons, participants Presenting Authors & Posterflashes.
Talks and Flashes Cued and ready.

08:10 - 08:20

Opening remarks and welcome
PD Dr. Monica Schaller, GCB Coordinator

08:20 - 08:30

Introduction to online/virtual format
Prof. Tobias Nef, ATORG

08:30 - 09:30 | Zoom, Expert Group-Specific

Talks I: Five parallel sessions, 4 talks per session | 15 min. per talk
Expert Committee member session chairs / ATORG technical support moderators

09:35 - 10:15 | Zoom, Expert Group-Specific

Poster Flash: Five parallel sessions, 2 min. per flash, each speaker introduces her- or himself and presents his/her one slide, event organizers advance the slides that are all contained in one presentation

10:15 - 10:30

Morning Break

10:30 - 12:15 | Zoom, Expert Group-Specific

Talks II: Five parallel sessions, 4 talks per session | 15 min. per talk
Expert Committee member session chairs / ATORG technical support moderators

11:35 - 12:15 | Zoom, Expert Group-Specific

Poster Flash: Five parallel sessions, 2 min. per flash, each speaker introduces her- or himself and presents his/her one slide, event organizers advance the slides that are all contained in one presentation

12:15 - 13:30

Afternoon Break

Log in to [Gather Town](#)

<https://gather.town/app/uvNS6Ljxtm8UWske/GCB%20Symposium%202022>

(copy into your browser if you are not redirected by clicking on the link)

13:30 - 14:30 | Gather Town

Poster Session A

14:30 - 15:30 | Gather Town

Poster Session B

Exit Gather Town and Login to Symposium Main Session Zoom

15:45 - 16:30 | Zoom, Main Session

GCB Three Awards for Best PhD Thesis

Session Chair Prof. Dr. Ruper Bruckmaier

Each - Presentation by Awardee Supervisor (5 min.), Presentation of winner (10 min.), prize award

16:30 - 17:00 | Zoom, Main Session

Keynote Address

(Comments, questions and feedback to be sent via Zoom chat to Prof. Dominik Obrist to be curated)

Chair Prof. Dr. Dominik Obrist

Keynote Speaker : Prof. Dr. Michael Sacks

17:00 - 17:15 | Zoom, Main Session

Closing Remarks

PD Dr. Monica Schaller

Session I

Talks & Poster Flash

Abstract Nr. Key
T-xxx (e.g. T-001) – Talks
A-xxx (e.g., A-001) – Poster Session A
B-xxx (e.g., B-001) – Poster Session B
Asterisks “*”, (e.g., A-011*) – Poster Flash
and Poster Session

08:30 - 10:15| Talks & Poster Flash

[Biological Systems](#) | [Zoom](#)

Chair: **Prof. Dr. Rupert Bruckmaier**, Department of Clinical Research and Veterinary Public Health (DCR-VPH), University of Bern

08:30 - 09:30 Talks I | [Biological Systems](#) | T-001 to T-004 | 15 min. per talk

- 08:30
T-001 **Raphaela Isabelle Marianne Seeger**, Institute of Anatomy, University of Bern
Imaging of SNARE-Dependent Spontaneous and Evoked Synaptic Transmission
- 08:45
T-002 **Andrea Karolin**, Nephrology and Hypertension, University of Bern
Nephrotoxicity of Calcineurin Inhibitors in Kidney Epithelial Cells is Independent of NFAT Signaling
- 09:00
T-003 **Matheus Notter Dias**, IFIK
Effects of Secondary Plant Metabolites Benzoxazinoids on the Gut Microbiota
- 09:15
T-004 **Joana Filipa Mendes Duarte**, Institute of Physiology, University of Bern
Investigating the Role of Ventral Hippocampus in Reward and Aversive Contextual Memories

Poster Flash I | [Biological Systems](#) | 2 min. ea.

09:35 – 10:15 Poster Numbers and Presenters:

- | | | | |
|---------------|-----------------------------|--------|--------------------|
| A-001* | Constanze Raltschev | A-011* | Bianca Viberti |
| A-002* | Federica Angela Franciosa | A-012* | Murielle Golomingi |
| A-003* | Patrycja Kucharczyk | A-013* | Zoja Selimi |
| A-004* | Jakub Králik | A-014* | Seyma Nayir |
| A-005* | Benedetta Coppe | A-015* | Manuel Ulrich Egle |
| A-006* | Laura Kriener | A-016* | Adrian M. Madarasz |
| A-007* | Jasmin Kuratli | A-017* | Alba Segura Amil |
| A-008* | Jana Remlinger | A-018* | Micaela Borsa |
| A-009* | Akira Nomura | A-019* | Elio Luca Herzog |
| A-010* | Matthias Chinyen Tsa | A-020* | Matteo Zoia |

08:30 - 10:15 | Talks & Poster Flash

[Biomedical Engineering](#) | [Zoom](#)

Chair: **Prof. Dr. Stavroula Mougiakakou**, ARTORG Center for Biomedical Engineering Research, University of Bern

08:30 - 09:30 Talks I | [Biomedical Engineering](#) | T-005 to T-008 | 15 min. per talk

- 08:30
T-005 **Flora Bahrami**, University of Bern, ARTORG Center for Biomedical Engineering Research
The Individualized Digital Twin Of Fentanyl Transdermal Therapy For Chronic Pain Management
- 08:45
T-006 **Benjamin Voumard**, Artorg Center for Biomedical Engineering, University of Bern
Influence of Aging on Femoral Neck Mechanical Properties, an Experimental and Computational Study
- 09:00
T-007 **Michael Indermaur**, ARTORG Center for Biomedical Engineering Research, University of Bern
Microtensile Properties of Dry Bone Matrix in Osteogenesis Imperfecta Are Not Inferior Compared to Healthy Control
- 09:15
T-008 **Sergej Kasavica**, Institut for Physiology, University of Bern
Top Down And Bottom Up Interactions At The Posterior Parietal Cortex

Poster Flash I | [Biomedical Engineering](#) | 2 min. ea.

09:35 – 10:15 Poster Numbers and Presenters:

A-021*	Ena Ivanovic	A-031*	Hanspeter Hess
A-022*	Christian Burri	A-032*	Noëlle Claudia Harte
A-023*	Martin Hofmann	A-033*	Tatiana Kochetkova
A-024*	Talia Bergaglio	A-034*	Yannick Pascal Rösch
A-025*	Diego Stutzer	A-035*	Alice Dudle
A-026*	Dominik Inniger	A-036*	Yvan Gugler
A-027*	Malavika H. Nambiar	A-037*	Tarcisi Cantieni
A-028*	Paul Haider	A-038*	Gian Guyer
A-029*	Rudy Rizzo	A-039*	Ellen Marleen van Maren
A-030*	Johanna Menze	A-040*	Sai Krishnan Ganesh

08:30 - 10:15 | Talks & Poster Flash

[Biomedical Sciences](#) | [Zoom](#)

Chair: **Prof. Dr. med. Frank Stüber**, Department for BioMedical Research, University of Bern, and Depart. of Anaesthesiology and Pain Therapy, Inselspital

08:30 - 09:30 Talks I | [Biomedical Sciences](#) | T-009 to T-012 | 15 min. per talk

- 08:30
T-009 **Alja Mazzini**, Veterinary Public Health Institute, Animal Welfare Division, Vetsuisse Faculty, University of Bern
Phenotyping Addictive-like Behaviour Towards Toys in Dogs Using a Behaviour Test and Questionnaire
- 08:45
T-010 **Francesco Galli**, Veterinary Public Health Institute, University of Bern, Switzerland
Exploring The Association Between Pig Transports, Veterinarian Visits And Farm Production Type To Inform Risk-Based Surveillance Strategies
- 09:00
T-011 **Laeticia Irène Scherler**, Department for BioMedical Research, Université de Bern
Role of the Kidney and Vitamin D in the Prevention Against Atherosclerosis
- 09:15
T-012 **Jasmine Léa Jendoubi**, Department of Neurology, Bern, University Hospital
Differential Sleep Markers Expression Dependent Upon Thalamic Nuclei Lesioned by Stroke

Poster Flash I | [Biomedical Sciences](#) | 2 min. ea.

09:35 – 10:15 Poster Numbers and Presenters:

A-041*	Katrin Melanie Beckmann	A-051*	Selianne Graf
A-042*	Eric Buffle	A-052*	Julia Moser
A-043*	Lordrick Alinaitwe	A-053*	Afroditi Tripyla
A-044*	Alexandria Schauer	A-054*	Martina L Reichmuth
A-045*	Maria Angeliki Komninou	A-055*	Tafadzwa Dhokotera
A-046*	Lisette van Os	A-056*	Tomáš Sláma
A-047*	Oleksiy-Zakhar Khoma	A-057*	João Afonso Sequeira de Carvalho
A-048*	Yin Ting Lam		
A-049*	Alex Johny		
A-050*	Philipp Grossenbacher		

08:30 - 10:15 | Talks & Poster Flash

[Cell Biology](#) | [Zoom](#)

Chair: **Prof. Dr. Thomas Kaufmann**, Institute of Pharmacology, University of Bern

08:30 - 09:30 Talks I | [Cell Biology](#) | T-013 to T-016 | 15 min. per talk

- 08:30
T-013 **Francis Brühlmann**, Institut for Animal Pathology, University of Bern
Discovery of a New Locus of Repetitive Effector Proteins in *Theileria* and Their Role in Malignant Transformation of the Host Cell
- 08:45
T-014 **Carmen Widmer**, Institute of Animal Pathology, University of Bern
Complementary *in vivo* and *in vitro* Approaches identify NAA60 as major Determinant of Platinum Drug Sensitivity
- 09:00
T-015 **Martín González Fernández**, Institute of Animal Pathology, Universität Bern
Chemogenetic Interactions To Elucidate Mechanisms Of Therapy Response: HTT And BAP1 Mediate Taxane Response In BRCA1-Deficient Mammary Tumors
- 09:15
T-016 **Carmen Muñoz Maldonado**, Tumor Immunology, Department for BioMedical Research, University of Bern
DNA Damage Response and Synthetic Lethal Targets In *CHK2*-deficient Cancers

Poster Flash I | [Cell Biology](#) | 2 min. ea.

09:35 – 10:15 Poster Numbers and Presenters:

A-058*	Guillaume Beilleau	A-068*	Marjolaine Hugonnet
A-059*	Pascal Guntern	A-069*	Kevin Plattner
A-060*	Irina Bregy	A-070*	Jeremy Yeoh
A-061*	Erina A. Balmer	A-071*	Isabel Arenas Hoyos
A-062*	Marine Inglebert	A-072*	Chantal Lea Bachmann
A-063*	Melanie Scherer	A-073*	Michelle Buri
A-064*	Laura Laloli	A-074*	Noah Schnüriger
A-065*	Lea Lingg	A-075*	Fatemeh Safari
A-066*	Martina Minoli	A-076*	Cong Wang
A-067*	Debora Lind	A-077*	Eva Dervas

08:30 - 10:15 | Talks & Poster Flash

[Molecular Biology & Biochemistry | Zoom](#)

Chair: **Prof. Dr. Torsten Ochsenreiter**, Institute of Cell Biology, University of Bern

08:30 - 09:30 Talks I | [Molecular Biology & Biochemistry](#) | T-017 to T-020 | 15 min. per talk

- 08:30
T-017 **Bolaji Nafisat Isiaka**, Institute of Cell Biology, University of Bern
Unravelling The Mechanism Of Condensin Induced Transcription Repression
- 08:45
T-018 **Sandhya Krishnan Radha Krishnan**, Institute of Biochemistry and Molecular Medicine,
University of Bern
Investigating the Role of *Trypanosoma cruzi* Serine Hydrolases During *in vitro* Infection
- 09:00
T-019 **Rebecca Brogli**, Department of Chemistry, Biochemistry and Pharmaceutical Sciences,
University of Bern
A tRNA Half Stimulates Mitochondrial Translation During Stress Recovery In *Trypanosoma Brucei*
- 09:15
T-020 **Therese Solberg**, Institute of Cell Biology, University of Bern
The PIWI protein Ptiwi08 regulates developmental mRNAs in *Paramecium tetraurelia*

Poster Flash I | [Molecular Biology & Biochemistry](#) | 2 min. ea.

09:35 – 10:15 Poster Numbers and Presenters:

- | | | | |
|--------|------------------------|--------|------------------------|
| A-078* | Moushumi Das | A-088* | Alicia Romano' |
| A-079* | Corinne Von Känel | A-089* | Joel Tuomaala |
| A-080* | Cristian Eggers | A-090* | Marina Maurizio |
| A-081* | Laureen Michèle Peters | A-091* | Damian Tobias Nydegger |
| A-082* | Ekaterina Shvetsova | A-093* | Paula Fernandes |
| A-083* | Giulia Schilardi | A-094* | Valeriia Volodkina |
| A-084* | Sophie Elena Sage | A-095* | Manuel Kösters |
| A-085* | Frederike Stöth | A-096* | Shohreh Teimuri |
| A-086* | Aleksandra Jejina | | |
| A-087* | Ioanna Tsioti | | |

10:00 - 10:15 | Break



Session II

Talks & Poster Flash

Abstract Nr. Key
T-xxx (e.g. T-001) – Talks
A-xxx (e.g., A-001) – Poster Session A
B-xxx (e.g., B-001) – Poster Session B
Asterisks "*", (e.g., A-011*) – Poster Flash
and Poster Session

10:30 - 12:15 | Talks II & Poster Flash

[Biological Systems](#) | [Zoom](#)

Chair: **Prof. Dr. Petra Roosje**, Department of Clinical Veterinary Medicine,
Vetsuisse, University of Bern

10:30- 11:30 | Talks II | [Biological Systems](#) | T-021 to T-024 | 15 min. per talk

10:15
T-021 **Lotte Johanna Elisabeth Jonker**, Physiology, University of Bern
**Aversion Learning Mediated by Dopaminergic Neurotransmission
in the Anterior Cingulate Cortex**

10:30
T-022 **Philipp Andreas Kronenberg**, Institute of Parasitology, Vetsuisse and Medical Faculty,
University of Zurich
**Monoclonal Antibodies As Useful Tools For The Diagnosis And Biological
Characterization Of *Echinococcus* Species**

10:45
T-023 **Josephine A. Mapunda**, Theodor Kocher Institute
**A Novel Mouse Model Allowing for *in vivo* Imaging of the Central Nervous System
Meningeal Layers in Immune Surveillance and During Neuroinflammation**

11:00
T-024 **Alicia Michelle Kemble**, Theodor Kocher Institute, University of Bern
Monoacylglycerol Lipase Modulation at the Neurovascular Unit

Poster Flash II | [Biological Systems](#) | 2 min. ea.

11:35 - 12:15 Poster Numbers and Presenters:

B-098*	Raquel Adaia Sandoval Ortega	B-108*	Franziska Silvia Strunz
B-099*	Alice Pontiggia	B-109*	Andreas Shaun Croft
B-100*	Ali Kazemian	B-110*	Simona Vincenti
B-101*	Daniel Spari	B-111*	Melissa Pitton
B-102*	Raphael Beyeler	B-112*	Marco Felber
B-103*	Anastasia Milusev	B-113*	Sasha Giulio Natale Soldati
B-104*	Amjad Khan	B-114*	Javier Pareja
B-105*	Samantha Weber	B-115*	Yuebing Li
B-106*	Kristina Carolin Berve	B-116*	Bryce Evans
B-107*	Ahmed Elhelbawi	B-117*	Lazar Ivanovic

10:30 - 12:15 | Talks II & Poster Flash

[Biomedical Engineering | Zoom](#)

Chair: **Prof. Dr. Dominik Obrist**, Cardiovascular Engineering (CVE), ARTORG
Center for Biomedical Engineering Research, University of Bern

10:30 - 11:30 | Talks II | [Biomedical Engineering](#) | T-025 to T-028 | 15 min. per talk

10:15
T-025 **Michael Rebsamen**, Support Center for Advanced Neuroimaging (SCAN), University Institute of Diagnostic and Interventional Neuroradiology, University of Bern, Inselspital
Deep learning-based Brain Morphometry from post-contrast MRI

10:30
T-026 **Dario Ferrari**, ARTORG Center, OOC Group, University of Bern
Inclusion Of Mechanical And Biochemical Stimuli In A Microvasculature-on-Chip To Investigate Angio- And Vasculogenesis

10:45
T-027 **Kristina Slabeva**, Department of Neurology, University of Bern
Spread Of Evoked And Spontaneous Limbic Seizures

11:00
T-028 **Benjamin Till Ellenberger**, Physiology, University of Bern
Learning to Generate Cortical Activity from iEEG Through a Recurrent Neural Networks of Nonlinear Spectro-temporal Receptive Fields

Poster Flash II | [Biomedical Engineering](#) | 2 min. ea.

11:35 - 12:15 Poster Numbers and Presenters:

B-118*	Malin Kristin Meier	B-128*	Chandrima Shrivastava
B-119*	Christian Horvat	B-129*	Suhang You
B-120*	Emile Talon	B-130*	Aileen C. Naef
B-121*	Milena Capiglioni	B-131*	Elias Rufenacht
B-122*	Sergio Tascon-Morales	B-132*	Nicolas Deperrois
B-123*	Saied Ramedani	B-133*	Simone Poli
B-124*	Ioannis Papathanail	B-134*	Guodong Weng
B-125*	Aleksandra Ivanovic	B-135*	Eduardo Villar Ortega
B-126*	Tobias Adrian Weber	B-136*	Mushashu Mwansa Lumpa
B-127*	Samuel Johannes Elia Knobel	B-137*	Camille Gontier

10:30 - 12:15 | Talks II & Poster Flash

[Biomedical Sciences](#) | [Zoom](#)

Chair: **PD. Dr. Sarah Henning Longnus**, Cardiovascular Research Cluster Bern, Department for BioMedical Research (DBMR), University of Bern

10:30 - 11:30 | Talks II | [Biomedical Sciences](#) | T-029 to T-032 | 15 min. per talk

10:15
T-029

Julia K. Prümmer, Division of Clinical Neurology, Vetsuisse Faculty, University of Bern
Oligoclonal Bands In Dogs With Meningoencephalitis Of Unknown Origin (MUO)

10:30
T-030

Alessandro Mirra, Section of Anesthesiology and Pain Therapy, Department of Clinical Veterinary Medicine, Vetsuisse Faculty, University of Bern
Is The Electroencephalographic Monitor SedLine® A Useful Tool to Assess Anesthetic Depth In Pigs?

10:45
T-031

Vera Lehmann, Department of Diabetes, Endocrinology, Nutritional Medicine and Metabolism, Inselspital, Bern, University Hospital, University of Bern
Machine Learning Detects Hypoglycemia Non-Invasively During Real Car Driving Based On In-Vehicle Data

11:00
T-032

Peter Neyer, Department of Clinical Chemistry, University of Bern
Thalassemia and Iron Status in an Endemic Malaria Region

Poster Flash II | [Biomedical Sciences](#) | 2 min. ea.

11:35 - 12:15 Poster Numbers and Presenters:

B-138* Katalin Bartos

B-148* Chaonan Jin

B-139* Marianna Rosso

B-149* Gregory Lepeu

B-140* Andrew Francis Brown

B-150* Irene Spera

B-141* Maria Jose Duque-Correa

B-155* Klara Johanna Grethen

B-142* Henrik D. Mettler

B-156* Camille Marie Montalcini

B-143* Ngoc Dung Le

B-157* Patric Wyss

B-144* Ranjana Gigi

B-145* Raphael Rätz

B-146* Klaus Schürch

B-147* Marie Roig-Pons

10:30 - 12:15 | Talks II & Poster Flash

[Cell Biology | Zoom](#)

Chair: **Prof. Dr. phil. nat. Mario Tschan**, Experimental Pathology, Institute of Pharmacology, University of Bern

10:30 - 11:30 | Talks II | [Cell Biology](#) | T-033 to T-036 | 15 min. per talk

10:15
T-033 **Annina Bindschedler**, Institute of Cell Biology, University of Bern
Host Cell NRF2 Signaling in *Plasmodium berghei*-Infected Liver Cells

10:30
T-034 **Disha Tandon**, Institute for Infectious Diseases, University of Bern
Adaptation of Auxotrophic Invasive *Salmonella enterica* serovar Typhimurium to Cooperative Metabolic Microbiota Dependency

10:45
T-035 **Dzhangar Dzhumashev**, Division of Pediatric Hematology and Oncology, Department of Pediatrics, Inselspital, Bern University Hospital, University of Bern
Peptide-mediated Targeting Of Cell Surface Receptor As A Promising Approach For Drug Delivery To Rhabdomyosarcoma

11:00
T-036 **Christina Andronikou**, Institute of Animal Pathology, Vetsuisse faculty, University of Bern
Targeting the PARG Loss-mediated PARP Inhibitor Resistance in BRCA-deficient Tumors

Poster Flash II | [Cell Biology](#) | 2 min. ea.

11:35 - 12:15 Poster Numbers and Presenters:

B-158*	Cecilia Bazzini	B-168*	Max Heydasch
B-159*	Thomas Höhener	B-169*	Steven Lukas Misztal
B-160*	Maria Natalia Rojas Velazquez	B-170*	Benedetta De Ponte Conti
B-161*	Katyayani Sharma	B-171*	Darya Karatkevich
B-162*	Serena Melgrati	B-172*	Daniëlle Verschoor
B-163*	Elisa Rodrigues Sousa	B-173*	Kemal Mehinagic
B-164*	Cristina Kalbermatter	B-174*	Emilia Radulovic
B-165*	Lusine Hovhannisyan	B-175*	Chiara Pozzato
B-166*	Dennis Imhof	B-176*	Nadine Anslinger
B-167*	Zahra Gharailoo	B-177*	Simon Zinkhan

10:30 - 12:15 | Talks II & Poster Flash

[Molecular Biology & Biochemistry | Zoom](#)

Chair: **Prof. Dr. Sebastian Leidel**, Department of Chemistry, Biochemistry and Pharmacy, University of Bern

10:30 - 11:30 | Talks II | Molecular Biology & Biochemistry | T-037 to T-040 | 15 min. per talk

10:15
T-037 **Redona Hafizi**, Institute of Pharmacology, University of Bern
S1P Stimulates Erythropoietin Production in Mouse Renal Interstitial Fibroblasts by S1P₁ and S1P₃ Receptor Activation and HIF-2a Stabilization

10:30
T-038 **Salome Aeschlimann**, Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern
P197 As The Missing Link Between The Outer Mitochondrial Membrane And The Basal Body In *T.brucei*

10:45
T-039 **Thomas Roder**, IBU, Bern
OpenGenomeBrowser: A Reusable and Scalable Web Platform for Genome Database Management and Comparative Genomics

11:00
T-40 **Harpreet Kaur Mandhairl**, Veterinary Bacteriology, University of Bern
ULK1 Inhibition Promotes NF- κ B Activation in GCB-DLBCL Whilst Augmenting Cytotoxicity of Ibrutinib

Poster Flash II | [Molecular Biology & Biochemistry](#) | 2 min. ea.

11:35- 12:15 Poster Numbers and Presenters:

B-178*	Ana Kalichava	B-188*	Leon Kleemann
B-179*	Markus Gerber	B-189*	Joel Pascal Werren
B-181*	Philipp Müller	B-190*	Roman Alois Mahler
B-182*	Matthias Licheri	B-191*	Nicole Wildi
B-183*	Quentin-F. Oliveres	B-192*	Sonia-Emilia Selicean
B-184*	Joao Filipe Marques	B-193*	Jonathan Save
B-185*	Marc Kaethner	B-194*	Andrea Timpanaro
B-186*	Sarah Widmer	B-195*	Vasundhara Rao
B-187*	Liana Hayrapetyan	B-196*	Sara Doina Schütz
B-187*	Liana Hayrapetyan	B-197*	Mariko Dale

12:15 - 13:30 | Break



Poster Session A

13:30 - 14:30 Posters | [Biological Systems](#) | [Gather Town](#)

- A-001* **Constanze Raltschev**, University of Bern, Physiology Department
Sensory Perception in Posterior Parietal Cortex
- A-002* **Federica Angela Franciosa**, Physiology, Bern
Layer 5 Pyramidal Neurons Of The Anterior Cingulate Cortex In Inflammatory Pain
- A-003* **Patrycja Kucharczyk**, DBMR, University of Bern
Mechnisms Of Thiazides Induced Glucose Intolerance
- A-004* **Jakub Králik**, Department of Physiology, University of Bern
Evaluation Of Optogenetic Vision Restoration In Mouse Model Of Retinitis Pigmentosa Using Multi-electrode Arrays
- A-005* **Benedetta Coppe**, Institute of Anatomy, University of Bern
Influence Of An Ancestral Heart Injury In The Heart Regeneration Ability Of The Next Generations
- A-006* **Laura Kriener**, Institut für Physiologie, University of Bern
The Yin-Yang Dataset
- A-007* **Jasmin Kuratli**, Institute of Veterinary Pathology, Vetsuisse Faculty, University of Zurich
Refinement Of *In Vitro* Investigations For WIRA Treatment Of Acute And Persistent Chlamydial Infections
- A-008* **Jana Remlinger**; Department of Neurology, Inselspital, Bern University Hospital and Department for BioMedical Research (DBMR), University of Bern
Comparative Investigation of Antibody- and Non-antibody-mediated CNS Autoimmunity
- A-009* **Akira Nomura**, Department of Physiology, University of Bern
Deciphering The Association Between Caveolin-1 And Atrial Fibrillation
- A-010* **Matthias Chinyen Tsai**, Physiology, University of Bern
Model Of Valence Mediated Attention In The Sensory Cortex
- A-011* **Bianca Viberti**, Centre for Experimental Neurology, Department of Neurology, Inselspital University Hospital Bern
The Role of the Melanin-concentrating Hormone (MCH) Neurons in increase-dREM Sleep Propensity and Cataplexy in Narcolepsy
- A-012* **Murielle Golomingi**, Department for BioMedical Research (DBMR), University of Bern
The Complement Lectin Pathway Is Associated With Platelet Activation During Clot Formation In A Microvascular Bleeding Model
- A-013* **Zoja Selimi**, Department of Physiology, University of Bern
A Semi-Automated Algorithm to Analyze Single-Channel Currents Recorded with the Patch Clamp Technique
- A-014* **Seyma Nayir**, Department of Physiology, University of Bern
Effects of Blebbistatin and Streptomycin on Beat Rate Variability and Mechano-Electric Feedback in Spontaneously Active Cardiomyocyte Cultures

- A-015* **Manuel Ulrich Egle**, Department of Cardiovascular Surgery, Inselspital, Bern University Hospital
Nitric Oxide Synthase Activity Required for Beneficial Effects of Cardiac Hypothermic Oxygenated Perfusion in a Rat Model of Donation After Circulatory Death
- A-016* **Adrian M. Madarasz**, Theodor Kocher Institut, Universität Bern
A Murine Model For Investigating The Circulation And Efflux Of Cerebrospinal And Brain Interstitial Fluid After Intracerebral Hemorrhage
- A-017* **Alba Segura Amil**, Department of Neurosurgery, Inselspital Bern
Patient-specific Hyperdirect Pathway Activation In DBS For Parkinson's Disease
- A-018* **Micaela Borsa**, Zentrum für Experimentelle Neurologie, Department of Neurology, Inselspital University Hospital Bern
Paradoxical Network Activity In The Cortex: A Role For Selective Memory Consolidation?
- A-019* **Elio Luca Herzog**, Department of Ophthalmology, Inselspital, Bern University Hospital
Establishment of a Pipeline for the Characterization of a Low Abundance Microbiome
- A-020* **Matteo Zoia**, DBMR, University of Bern
Decoding The Gene Regulatory Landscapes Driving Mammalian Cardiogenesis And Cardiac Reprogramming
- A-099 **Vivian Vu**, University of Bern, University of Bern
IL-33/ST2 Signaling Differentially Contributes to Intestinal Tumorigenesis
- A-100 **Ida Luisa Boccalaro**, Center of Experimental Neurology, Department of Neurology, Inselspital University Hospital Bern, Department for BioMedical Research (DBMR)
Modulation Of Brain Circuits For Sensory Processing During Sleep States
- A-101 **Cédric Walker**, University of Bern, Institute of Animal Pathology, Vetsuisse Faculty, Bern
Fully Automated Tumor Infiltrating Lymphocyte Scoring Pipeline in Triple Negative Breast Cancer Demonstrates Agreement with Expert Readers
- A-102 **Pelin Kasap**, Theodor Kocher Institute, University of Bern
Modeling the Human Blood-Brain Barrier in Neuroinflammation
- A-103 **Virginia Roland Victor**, Department for Biomedical Research (DBMR), University of Bern
Probing the Functional Necessity of Cardiac Enhancers Associated to Key Regulators of Heart Development
- A-104 **Valentina Zollet**, Department for BioMedical Research, University of Bern
Prolonged Limb Ischemia Reperfusion Injury Induces Neutrophil Extracellular Traps Leading to an Increase of Plasma Citrullinated-Fibrinogen

- A-021* **Ena Ivanovic**, Department of Physiology, University of Bern
Ephaptic Coupling in Cardiac Intercalated Discs is Modulated by Narrow Perinexi: a Computational Study
- A-022* **Christian Burri**, Institute of Applied Physics (IAP) – Biomedical Photonics Group, University of Bern
Large-Area Removal of Retinal Pigment Epithelium in Preparation for Cell Therapy Using Microsecond Laser Pulses
- A-023* **Martin Hofmann**, sitem Center for Translational Medicine and Biomedical Entrepreneurship, University of Bern
Development of a Dental Miniscaler for Prophylactic and Periodontal Care
- A-024* **Talia Bergaglio**, Transport at Nanoscale Interfaces Laboratory, Empa – Swiss Federal Laboratories for Materials Science and Technology
Machine Learning Augmented Red Blood Cell Imaging And Analytics
- A-025* **Diego Stutzer**, Institute for Human Centered Engineering HuCE, Bern University of Applied Sciences
Influence of Operating Conditions on a Novel Planar Ultrasonic Piezoelectric Transducer for use in a Periodontal Scaler
- A-026* **Dominik Inniger**; Institute of Applied Physics, University of Bern
Deep Ultraviolet In-Vivo Absorption Coefficient of Cornea
- A-027* **Malavika H. Nambiar**, ARTORG Center for Biomedical Engineering Research, University of Bern
Tissue Mechanics And Parameter Identification Of *Ex Vivo* Human Corneal Tissue
- A-028* **Paul Haider**, Department of Physiology, University of Bern
Latent Equilibrium: Arbitrarily Fast Computation With Arbitrarily Slow Neurons
- A-029* **Rudy Rizzo**, Magnetic Resonance Methodology & Institute of Diagnostic and Interventional Neuroradiology, University of Bern
Multi-Parametric Single-Shot Magnetic Resonance Spectroscopy for Fast Metabolite-Specific Concentration and T₂ Determination
- A-030* **Johanna Menze**, sitem Center, University of Bern
Improved External Rotation with Latissimus Dorsi and Lower Trapzius Tendon Transfers in Posterosuperior Massive Rotator Cuff Tears with and without Teres Minor Functionality
- A-031* **Hanspeter Hess**, sitem Center for Translational Medicine and Biomedical Entrepreneurship, University of Bern
Automatic Shoulder Bone Segmentation From CT Arthrograms Based On Deep Learning
- A-032* **Noëlle Claudia Harte**, Artorg Center, University of Bern
Secondary Flow in Helical Square Ducts with Cochlea-like Curvature and Torsion
- A-033* **Tatiana Kochetkova**, Laboratory for Mechanics of Materials and Nanostructures, Empa
Assessing Jaw Bone Quality At The Micro- And Mesoscale
- A-034* **Yannick Pascal Rösch**, ARTORG Center for Biomedical Engineering, University of Bern
Endovascular Drug Delivery In Myocardial Microvascular Obstruction – Insights From An Enhanced Microfluidic Model

- A-035* **Alice Dudle**, ARTORG Center, University of Bern
Quantitative Analysis of Intensity Variations with Time, Scanning Parameters and Patient Characteristics in a CT Scanner
- A-036* **Yvan Gugler**, ARTORG Center for Biomedical Engineering Research, University of Bern
Development And Validation Of A Finite Element (FE) Pipeline For The Computation Of Femoral Bone Strength
- A-037* **Tarcisi Cantieni**, Institute of Complementary and Integrative Medicine, University of Bern
Feasibility To Measure Tissue Oxygen Saturation Using Textile-embroidered Polymer Optical Fibres
- A-038* **Gian Guyer**, Division of Medical Radiation Physics and Department of Radiation Oncology, Inselspital, Bern University Hospital and University of Bern
Evaluation And Validation Of Dynamic Trajectory Radiotherapy For A Craniospinal Irradiation Case
- A-039* **Ellen Marleen van Maren**, Department of Neurology, Inselspital, University of Bern
Probing Cortical Excitability in Humans with Epilepsy
- A-040* **Sai Krishnan Ganesh**, Institute of Anatomy, University of Bern
Analysis Of Heart-induced Lung Motion In High-resolution Synchrotron Based Radiography
- A-105 **Lars Doorenbos**, AIMI, ARTORG Center, University of Bern
Unsupervised Out-of-Distribution Detection and Localization for Medical Volumes
- A-106 **Milica Bulatović**, ARTORG Center for Biomedical Engineering Research, University of Bern
Thermal Ablation Tailored To Distinct Tumor Shapes
- A-107 **Javier Gamazo Tejero**, ARTORG, University of Bern
Predicting OCT Biological Marker Localization from Weak Annotations
- A-108 **Lorenz Timo Ryser**, University of Bern, Interfaculty Bioinformatics Unit
Formation Of Biogenic Amines In Raclette-Type Cheese By *Morganella Morganii*
- A-109 **Ali Mokhtari**, ARTORG Center for Biomedical Engineering Research
Designing A Phantom Model To Perform Three-Dimensional Analysis Of Hemodynamic Wall Parameters In The Carotid Bifurcation Using Computer-Augmented 4D Flow MRI
- A-110 **Federico Turco**, Institute of Diagnostic and Interventional Neuroradiology, Bern University
Deep Learning Application in MRS Post-processing: Metabolite Quantification And Water Removal
- A-111 **Joël Illi**, Department of Cardiology, University Hospital Bern
Preliminary Results on Mechanical Testing of Cardiovascular Tissues and Comparison with Soft Silicone

- A-041* **Nico Mauri**, Small Animal Clinic, Department of Neurology, Vetsuisse Faculty, University Zürich
Increased Thalamic Glutamate/Glutamine Level in Idiopathic Epileptic Dogs Compared to Healthy Control Dogs
- A-042* **Eric Buffle**, Cardiology, University of Bern
Increasing Transvalvular Flow With Passive Leg Rise As An Add-on To Dobutamine In Patients With Low-Flow, Low-gradient Aortic Stenosis
- A-043* **Lordrick Alinaitwe**, Animal and Human Health Program, International Livestock Research Institute
Transmission and Occurrence of Leptospira Infection Among Livestock and Humans in Uganda
- A-044* **Alexandria Schauer**, Institute of Bee Health, Vetsuisse Faculty, University of Bern
Negative Evidence For Virus Spillover From Honey Bees To Butterflies
- A-045* **Maria Angeliki Komninou**, Dept. of Ophthalmology, University Hospital Bern
Characterization/Optimization Of The Corneal Stiffening Technique Named Pulsed Crosslinking
- A-046* **Lisette van Os**, ARTORG Center for Biomedical Engineering, University of Bern
Extravasation-on-chip: a Microfluidic System to Investigate Immune Cell Extravasation
- A-047* **Oleksiy-Zakhar Khoma**, Institute of Anatomy, University of Bern
MicroangiCT-Based Assessment of Long-Term Implantation Success for Biomedical Devices
- A-048* **Yin Ting Lam**, Institute of Social and Preventive Medicine, University of Bern
Respiratory symptoms and physical activity in patients with Primary Ciliary Dyskinesia in Switzerland
- A-049* **Alex Johny**, Center for Proper Housing: Poultry and Rabbits, Division of Animal Welfare, VPH-Institute, University of Bern
Use of Light Cues Encourages Ramp Use in the Early Life of Laying Hens
- A-050* **Philipp Grossenbacher**, Institute for Biochemistry and Molecular Medicine, University of Bern
Bioorthogonal Site-selective Conjugation of Fluorescent Dyes to Antibodies: Method and Potential Applications
- A-051* **Selianne Graf**, Department of Cardiovascular Surgery, Inselspital, Bern University Hospital
Macrophage-Derived Extracellular Vesicles (EVs) Have Functional and Metabolic Effects in Post-Ischemic Isolated Rat Hearts
- A-052* **Julia Moser**, Veterinary Public Health Institute, University of Bern
Implementation of a New Measurement Method for the Barn Climate in the Macro- and Microclimate Range of Calf Fattening Barns
- A-053* **Afroditi Tripyla**, Department of Diabetes, Endocrinology, Nutritional Medicine and Metabolism, Inselspital Bern University Hospital, University of Bern
Endocrine and Metabolic Counterregulation to Postprandial Hypoglycemia in Patients with Postprandial Hypoglycemia after Gastric Bypass Compared to Non-Affected Surgical and Non-Surgical Controls
- A-054* **Martina L Reichmuth**, Institute of Social and Preventive Medicine, University Bern
Impact of Cross-border-associated Cases on the Severe Acute Respiratory Syndrome Coronavirus 2 Epidemic in Switzerland in Summer 2020 and 2021

- A-055* **Tafadzwa Dhokotera**, Swiss Tropical and Public Health Institute
Age Distribution Of Cervical Cancer Amongst Women Seeking Care In The South African Public Health Sector
- A-056* **Tomáš Sláma**, Childhood Cancer Research Group, Institute of Social and Preventive Medicine, University of Bern
Risk Factors For Cancer-Related Fatigue In Adult Childhood Cancer Survivors: A Report From The CardioOnco Study
- A-057* **João Afonso Sequeira de Carvalho**, Institute of Anatomy, University of Bern
Study Of Ggenes Identification Of Intercellular Communication Hubs And Their Signaling Regulation During Zebrafish Heart Regeneration

- A-058* **Guillaume Billeau**, Institute of Virology and Immunology
Innate Immune Evasion By Pestiviral E^{FN5} In Bovine Airway Epithelial Cell Cultures
- A-059* **Pascal Guntern**, Department of BioMedical Research, University of Bern
The Role Of IgE Glycosylation Patterns On Its Biological Activity
- A-060* **Irina Bregy**, Institute of Cell Biology, University of Bern
Cryo-electron Tomography of the TAC: a Journey Deep into the Trypanosome
- A-061* **Erina A. Balmer**, Institute of Cell Biology, University of Bern
The Protein Interactome Of Unconventionally Secreted Virulence Factors Associated With Peripheral Vacuoles In Giardia Lamblia
- A-062* **Marine Inglebert**, Institute for Animal Pathology, University of Bern
Genome-Wide CRISPR/Cas9 Screen to Identify Host Factors Essential for Morbilliviral Infections
- A-063* **Melanie Scherer**, Division of Neurological Sciences, Vetsuisse Faculty, University of Bern
Biparatopic Sybody Constructs Neutralize SARS-CoV-2 Variants Of Concern And Mitigate Emergence Of Drug-Resistance
- A-064* **Laura Laloli**, Institute of Infectious Diseases, University of Bern
Characterization of the Innate Immune Response in the Respiratory Epithelium of Human, Swine and Bovine during Influenza Virus Infection
- A-065* **Lea Lingg**, Institute of Animal Pathology, Vetsuisse Faculty, University of Bern
Loss of *Taok1* in *Brca1* ^{-/-}; *p53* ^{-/-} Mouse Mammary Tumor Cells Causes PARPi Resistance
- A-066* **Martina Minoli**, Urology Research Laboratory, Department for BioMedical Research, University of Bern
Characterization of Bladder Cancer Patient-Derived Organoids and Potential Application for Personalized Medicine
- A-067* **Debora Lind**, Institute of Virology and Immunology
Generation of a New Mouse Model to Investigate Overlapping Functions of Clade B Serpins
- A-068* **Marjolaine Hugonnet**, Institute of Pharmacology, University of Bern
Relevant Sialyltransferases In Head And Neck Squamous Cancer And Their Roles In Carcinogenesis

- A-069* **Kevin Plattner**, DBMR, University of Bern
Passive Immunization With IgE-Allergen Immune-Complexes Induced IgG Antibodies Prevent Anaphylaxis In A Mouse Model
- A-070* **Jeremy Yeoh**, Institute of Pathology, University of Bern
Role of Type 2 Innate Lymphoid Cells in PI3K Signaling-driven Chronic Lung Inflammation
- A-071* **Isabel Arenas Hoyos**, Department for BioMedical Research, Bern
Neutrophil extracellular traps in Vascularized Composite Allografts
- A-072* **Chantal Lea Bachmann**, Department for BioMedical Research, University of Bern
Immune-Checkpoints in the Regulation of Leukemia and Cancer Stem Cells
- A-073* **Michelle Buri**, Tumor Immunology, Department of Biomedical Research (DBMR), University of Bern
The Role of Acetylcholine in the Regulation of Acute Myeloid Leukemia Stem Cells
- A-074* **Noah Schnüriger**, Department of Medical Oncology, Inselspital, Bern University Hospital, University of Bern
The Role of CD4+ T Cells in the Regulation of Acute Myeloid Leukemia and Leukemic Stem Cells
- A-075* **Fatemeh Safari**, Bone Biology & Orthopaedic Research, Department for BioMedical Research (DBMR), University of Bern
Inositol Phosphatase SHIP1 in Skeletal Development
- A-076* **Cong Wang**, gcb
Role Of Liver Stiffness In The Pathophysiology Of Portal Hypertension
- A-077* **Eva Dervas**, Institute of Veterinary Pathology, University of Zurich, Vetsuisse Faculty
Boid Inclusion Body Disease In *Boa constrictor* Is Associated With Alterations In Haematological And Biochemical Parameters And Innate Immune Response Functions
- A-112 **Melanie Scalise**, Department of Pulmonary Medicine, Inselspital, Bern University Hospital, University of Bern
Modulation Of Allergic Airways Disease Employing Bio-Mimetic Nanocarriers With Toll-Like Receptor Agonists
- A-113 **Veronika Morozova**, Institute of Biochemistry and Molecular Medicine
Uncovering New Melanoma Targets Within a Genetically Engineered Mouse Model Using LC-MS/MS Analytics and Activity-Based Protein Profiling
- A-114 **Julia Ettl**, Vector Entomology unit, National Centre for Vector Entomology, Institute of Parasitology, Vetsuisse and Medical Faculty, University of Zurich
Japanese Encephalitis Virus: Vector Competence of Swiss Mosquito Species, and Viral *in vitro* Evolution
- A-115 **Patricia Beer**, Clinic for Small Animal Surgery, Vetsuisse Faculty, University of Zurich
Evaluation of Fibroblast Activation Protein as Target for Near Infrared Fluorescence Imaging of Soft Tissue Sarcomas in Dogs, Cats and People
- A-116 **Yihe Chen**, Institute of Pharmacology, University of Bern
The BK Channel Regulates the Proinflammatory Activity of Macrophages

13:30 - 14:30 Posters | [Cell Biology](#) | [Gather Town](#)

- A-117 **Robin Werner Avanthay**, Institute of Virology and Immunology, Mittelhäusern
The Immune Response to Mucosal Vaccination of Live-attenuated H1N1 Influenza Virus in Pigs
- A-118 **Andrea Marti**, Institute of Virology and Immunology, Mittelhäusern
Impact of Direct Transmission on Host Adaptation of Japanese Encephalitis Virus
- A-119 **Janine Lux**, Institute for Infectious Diseases, Faculty of Medicine, University of Bern
Interspecies Communication Between *Streptococcus Pneumoniae* And Other Bacteria Via Peptides
- A-120 **Nerea Fernandez Trigo**, Gastroenterology and Mucosal Immunology, Department for BioMedical Research, University of Bern
The Role Of The Microbiota In Shaping The Phenotypic And Functional Composition Of Breast Milk
- A-121 **Razieh Ardali**, Institute of Virology and Immunology, Mittelhäusern
Harnessing Trained Immunity To Enhance Resistance Of Piglets Against Infections
- A-122 **Lukas Mürner**, Institute of Pharmacology, University of Bern
Gene Expression Regulation and Function of Siglecs in CD8+ T Cells
- A-131 **Fabian Luther**, Department of Dermatology, Inselspital, Bern University Hospital
PPAR-gamma Promotes Proliferation Of Pathogenic Th2 Cells Through Regulation Of IL-2 Signaling

13:30 - 14:30 Posters | [Molecular Biology & Biochemistry](#) | [Gather Town](#)

- A-078* **Moushumi Das**, Institute of Cell Biology
Condensin Folds The *C. elegans* Interphase Genome
- A-079* **Corinne Von Känel**, Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern
TbPam18 And TbPam16 – On The Trail Of Their New Jobs
- A-080* **Cristian Eggers**, Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern
Wooble Uridine tRNA Modifications Are Essential For Correct Translation Dynamics And Ribosome Movement Along The mRNA
- A-081* **Laureen Michèle Peters**, Clinical Diagnostic Laboratory, Vetsuisse-Fakultät Bern
Characterisation Of Regenerating Protein Family Members In Dogs And Investigation Of Their Use As Diagnostic Markers For Pancreatitis, Sepsis, And Gastrointestinal Diseases
- A-082* **Ekaterina Shvetsova**, DCBP, Universität Bern
A Precisely Tuneable System for Inducing Codon-specific Translational Defects
- A-083* **Giulia Schilardi**, Institute of Physiology, University of Bern
Retinal Interneurons In Health And Disease: Not Simply "Connectors"

- A-084* **Sophie Elena Sage**, Swiss Institute of Equine Medicine, Department of Clinical Veterinary Medicine, Vetsuisse Faculty, University of Bern
First Single-Cell Gene Expression Analysis of Equine Bronchoalveolar Cells
- A-085* **Frederike Stöth**, Institute of Forensic Medicine, Forensic Toxicology and Chemistry, University of Bern
Phosphatidylethanol – A Suitable Alcohol Biomarker for Driving Under the Influence?
- A-086* **Aleksandra Jejina**, Institute of Cell Biology, University of Bern
The Two Adaptors of Microtubule Motor Proteins BicDR and BicD are Functionally Redundant and Essential for Embryo Development
- A-087* **Ioanna Tsioti**, Department of Ophthalmology and Department for BioMedical Research, Inselspital, Bern University
Systemic Lipopolysaccharide Exposure Triggers Tlr4-dependent Inflammatory Responses In The Mouse Retina *In Vivo*
- A-088* **Alicia Romano'**, Food Microbial Systems, Group Microbiological Safety of Foods of Animal Origin, Agroscope
Analysis Of The Bovine Intramammary Resistome And Bacterial Transmission Within Dairy Herds
- A-089* **Joel Tuomaala**, Institute of Cell Biology, University of Bern
A Role For Ribophagy In Balancing Starvation Resistance And The Rate Of Recovery
- A-090* **Marina Maurizio**, Vetsuisse Faculty, University of Bern
Metabolic Host Proteins Required For *Theileria annulata* Survival In Leukocytes
- A-091* **Damian Tobias Nydegger**, DBMR, University of Bern
New Insights Into The COVID-19 Epidemic: Genetic Polymorphisms, Role Of SLC6 Amino Acid Transporters, Renal Aspects And Therapeutic Perspectives
- A-093* **Paula Fernandes**, Institute of Cell Biology, University of Bern
Characterising *Trypanosoma brucei* Sexual Stages through Single-cell RNA Sequencing
- A-094* **Valeriia Volodkina**, Institute of Cell Biology/University of Bern
Expression and purification of *C. elegans* Dosage Compensation Complex
- A-095* **Manuel Kösters**, DCB, University of Bern
Monitoring the Influence of tRNA Modification Mutants on Protein Homeostasis in HEK Cells
- A-096* **Shohreh Teimuri**, Cell biology, Bern
***In Vivo* Function Of The Top3 β Topoisomerase Activity Towards RNAs**
- A-123 **Chrysanthi Kouri**, Pediatric Endocrinology, Diabetology and Metabolism, Department of Pediatrics, Inselspital, Bern University Hospital, University of Bern
"Phenotyping of Individuals with SF-1/NR5A1 Variants in an International DSD Cohort"

- A-124 **Sandro Christensen**, Maurice Müller Laboratories (DBMR), Universitätsklinik für Viszerale Chirurgie und Medizin Inselspital, University of Bern
Deciphering Maternal Microbiota Driven (Epigenetic) Programming of Metabolic Functions & Immune System Development of the Offspring *in utero* and Early Life
- A-125 **Morgane Decollogny**, Institute of Animal Pathology, Vetsuisse Faculty, University of Bern
Targeting The Niche Of Drug-Tolerant Tumor-Repopulating Cells To Eradicate Residual Disease In Triple-Negative Breast Cancer
- A-126 **Lukas Rimle**, Departement of Chemistry, Biochemistry and Pharmaceutical Sciences (DCBP), University of Bern
Investigations Into The Mode Of Action Of Leucinoastatin A On Mitochondria And Mitochondrial ATP Synthase
- A-127 **Stefano Gallo**, Departement für Chemie, Biochemie und Pharmazie, University of Bern
The Role of vtRNA1-2 In Human Hepatocellular Carcinoma Proliferation and Tumorigenesis
- A-128 **Luiz Antonio Berto Gomes**, Institute of Veterinary Anatomy, University of Zurich
Hypoxia And HIF1-complexes Modulate Expression of Steroidogenic Acute Regulatory (STAR) Protein in Leydig Cells
- A-129 **Jana Ziegelmüller**, Department of Chemistry Biochemistry and Pharmaceutical Sciences, Bern
Identification Of Novel Translation Termination Promoting Factors
- A-130 **Danielle Thompson**, Institute of Virology and Immunology (IVI), Bern and Mittelhäusern, Switzerland/Department of Infectious Diseases and Pathobiology, Vetsuisse Faculty, University of Bern
The Bat Influenza A Virus M2 Protein Has Low Proton Channel Activity

Poster Session B

14:30 - 15:30 Posters | [Biological Systems](#) | [Gather Town](#)

- B-098* **Raquel Adaia Sandoval Ortega**, Department of Physiology, University of Bern
A Pain during Sleep: The Neural Correlates of Pain during Sleep and Wake
- B-099* **Alice Pontiggia**, Federal Food Safety and Veterinary Office, Centre for Proper Housing of Ruminants and Pigs, Agroscope
Effect of Keeping Grazing Dairy Cows in the Barn During the Hottest Time of the Day on Heat Stress Reaction
- B-100* **Ali Kazemian**, Vetsuisse-Fakultät: Veterinaranatomisches Institut, Universität Zürich
Effects Of Decidualization And Antigestagens On The Expression Of Membrane-bound And Nuclear Progesterone Receptors In Canine Uterine Stromal Cells: An *In Vitro* Study
- B-101* **Daniel Spari**, Department for Visceral Surgery and Medicine, Bern University Hospital, University of Bern
Outer Membrane Vesicles As Carriers For Bacterial Extracellular ATP Modulate Local And Remote Inflammation In Peritoneal Sepsis
- B-102* **Raphael Beyeler**, Institute of Cell Biology, University of Bern
***Plasmodium berghei* Prefoldin Complex Subunit 5 Plays an Important Role in Sporozoite Formation**
- B-103* **Anastasia Milusev**, DBMR, University of Bern
Venous Endothelial Cells Are Protected Against Heparan Sulfate Shedding
- B-104* **Amjad Khan**, Institute of Pathology, University of Bern
Classification of Colorectal Cancer Lymph Nodes by using Multiple Instance Learning Approach
- B-105* **Samantha Weber**, Psychosomatic Medicine, Department of Neurology, Inselspital, Bern University Hospital, University of Bern
Limbic Network Dynamics in Functional Neurological Disorders
- B-106* **Kristina Carolin Berve**, Theodor-Kocher-Institute, University of Bern
Role Of The Angiogenic Factor Ang-2 In Macrophage Recruitment Into The Healthy And Inflamed CNS
- B-107* **Ahmed Elhelbawi**, Department of Chemistry, Biochemistry and Pharmaceutical sciences, Bern, Switzerland
Mettl3 Function Is Essential During Zebrafish Development
- B-108* **Franziska Silvia Strunz**, Department for BioMedical Research, University Bern
Repair of a Critical Size Defect in Estrogen-deficient Mice Treated with Bisphosphonates
- B-109* **Andreas Shaun Croft**, Department for BioMedical Research, University of Bern
***In Situ* Cell Signalling Of The Hippo-YAP/TAZ Pathway In Reaction To Complex Dynamic Loading In An Intervertebral Disc**
- B-110* **Simona Vincenti**, Veterinary Medicine, University of Bern
Feasibility Of Loading Extracellular Vesicles With Iohexol
- B-111* **Melissa Pitton**, Department of Intensive Care Medicine, Inselspital, Bern University Hospital, University of Bern
Exploiting patient-specific microbiomes for the treatment of Left Ventricular Assist Device infections

14:30 - 15:30 Posters | [Biological Systems](#) | [Gather Town](#)

- B-112* **Marco Felber**, Department for Biomedical Research, University of Bern
A Nervous Gut: Impact Of α -adrenergic And / Or Lipopolysaccharide Stimulation On Barriers In The Small Intestine
- B-113* **Sasha Giulio Natale Soldati**, Theodor Kocher Institute, University of Bern
Influence of Vitamin D on T-cell Migration Across the Blood-Brain Barrier
- B-114* **Javier Pareja**, Theodor Kocher Institute, University of Bern
Molecular Mechanisms Regulating CD8+ T Cell Entry Into The Central Nervous System
- B-115* **Yuebing Li**, Dept. of Ophthalmology, University Hospital, University of Bern
Rho-kinase Involvement in an Animal Model of Subretinal Fibrosis
- B-116* **Bryce Evans**, Division of Angiology, Swiss Cardiovascular Center, Inselspital, Bern University Hospital, University of Bern
Vascular ChemR23 Expression is Protective Against Atherosclerosis
- B-117* **Lazar Ivanovic**, Institute of Biochemistry and Molecular Medicine, University of Bern
Cellular Organisation of Tricalbin-mediated ER-PM Contact Sites
- B-198 **Carlo Cerquetella**, Department of Physiology, University of Bern
Neural Circuits For Emotional Conflicts And Decision-Making In The Ventral CA1 Hippocampus
- B-199 **Mohana Mukherjee**, Institut für Infektionskrankheiten, University of Bern
Gut Microbiota as a Key Regulator of Arsenic Biotransformation and Distribution within the Mammalian Host
- B-200 **Patcharamon Seubnooch**, Hepatology, Department for BioMedical Research, University of Bern
Spatial Metabolic Imaging In Non-alcoholic Fatty Liver Disease Using Desorption Electro-spray Ionization Mass Spectrometry Imaging
- B-201 **Mey Boukenna**, IBMM, Bern
TRPM4, the heart and non-myocytes
- B-202 **Fabienne Birrer**, Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital
Immune Cell Phenotyping Of The NASH Mouse Liver By CyTOF And IMC
- B-203 **Vera Tscherrig**, Department of Obstetrics and Feto-maternal Medicine, University Women's Hospital, Inselspital, Bern University Hospital
MicroRNAs In Wharton's Jelly-Derived Small Extracellular Vesicles (sEV) And Their Potential Role In Neuro-regeneration

- B-118* **Malin Kristin Meier**, Department of Orthopaedic Surgery and Traumatology, Inselspital, University of Bern
Deep Learning Based Fully Automated 3D Models of Hip Labrum Based on MR Arthrography are Feasible and Allow Detection of Differences in Labrum Volume Among Different Hip Deformities
- B-119* **Christian Horvat**, Physiology, Bern
Density estimation on low-dimensional Manifolds
- B-120* **Emile Talon**, ARTORG Center, University of Bern
Quantitative Analysis Of Temporal Bone Density And Thickness For Robotic Ear Surgery
- B-121* **Milena Capiglioni**, Institute for Diagnostic and Interventional Neuroradiology, University Hospital Inselspital; 2: University of Bern
Measurement of Composite Signals Using Magnetic Resonance Based Neuronal Current Imaging (NCI): A Numerical Simulation and Phantom Study
- B-122* **Sergio Tascon-Morales**, AIMI Lab, ARTORG Center, University of Bern
Localized Questions And Consistency Enhancement for Medical Visual Question Answering (VQA)
- B-123* **Saied Ramedani**, Department of Diagnostic, Interventional and Pediatric Radiology, Bern University Hospital, University of Bern
Automated Evaluation of the Whole Body's Muscle-fat Composition by Machine Learning for Magnetic Resonance Images (MRI)
- B-124* **Ioannis Papathanail**, ARTORG Center for Biomedical Engineering Research, University of Bern
Validation of A New Artificial Intelligence System to Monitor and Assess Nutrition in Hospitalised Older Inpatients
- B-125* **Aleksandra Ivanovic**, Inselspital, Department of ENT, Head and Neck Surgery, University Hospital Bern, ARTORG Center for Biomedical Engineering
Static Synchrotron-based phase-contrast Microtomography of the Human Middle Ear
- B-126* **Tobias Adrian Weber**, ARTORG Center for Biomedical Engineering Research, Organs-on-Chip Technologies, University of Bern
Development Of A Lung-on-chip Model
- B-127* **Samuel Johannes Elia Knobel**, Artorg, Gerontechnology and Rehabilitation, University Bern
Virtual Reality-Based, Game-Like Tools For Patients With Unilateral Spatial Neglect: 2 Pilot Studies
- B-128* **Chandrima Shrivastava**, ARTORG Center for Biomedical Engineering Research, University of Bern
How Can we Tailor the Packaging of Perishable Products Based on the Needs of the Supply Chain?
- B-129* **Suhang You**, ARTORG, University of Bern
Attention Shift: Interpretability Study of Texture-based Data Augmentation in Training U-Net Models for Brain Image Segmentation
- B-130* **Aileen C. Naef**, ARTORG Center for Biomedical Engineering, University of Bern
Guidelines for Examining Noise in the Intensive Care Unit
- B-131* **Elias Rüfenacht**, ARTORG Center for Biomedical Engineering Research, University of Bern
Influence of Tumor Appearance on the Robustness of Deep Learning Models for Organs-at-risk MRI Segmentation

- B-132*** **Nicolas Deperrois**, Physiologie, Universität Bern
Cortical Representation Learning Via Perturbed and Adversarial Dreaming
- B-133*** **Simone Poli**, Magnetic Resonance Methodology, Institute of Diagnostic and Interventional Neuroradiology, University of Bern
Real-Time Observation Of Glucose Metabolism In The Liver With Interleaved Deuterium Metabolic Imaging And 13C-MR Spectroscopy At 7 T In Vivo
- B-134*** **Guodong Weng**, Institute for Diagnostic and Interventional Neuroradiology, Support Center for Advanced Neuroimaging (SCAN), University of Bern
SLOW: a novel spectral editing method for whole-brain MRSI at Ultra High Magnetic Field (UHF)
- B-135*** **Eduardo Villar Ortega**, Motor Learning and Neurorehabilitation Laboratory, ARTORG Center for Biomedical Engineering Research, University of Bern
Tactile Discrimination of Virtual Texture is Enhanced after Training
- B-136*** **Mushashu Mwansa Lumpa**, GCB, University of Bern
Access To Cervical Cancer Screening For Women Living With HIV: A Record Linkage Study
- B-137*** **Camille Gontier**, Department of Physiology, University of Bern
Modeling Synaptic Transmission Based on Subsynaptic Glutamate Receptors Distribution
- B-204** **Aurelia Bucciarelli**, ARTORG Center for Biomedical Engineering Research, University of Bern
Design Of An In Vitro Capillary Network Model To Simulate The Pericyte Activation
- B-205** **Adrian C Ruckli**, sitem Center for Translational Medicine and Biomedical Entrepreneurship, University of Bern
Automatic Segmentation with Detection of Local Failures for Quantification of Cartilage Quality on Hip MRI
- B-206** **Matthias Andreas Fontanellaz**, Artorg Center for Biomedical Engineering Research, University Bern
Computer Aided Diagnosis for Pulmonary Fibrosis based on Multi-layer Perceptron Segmentation and Radiomic Features
- B-207** **Christina Wapp**, ARTORG Center for Biomedical Engineering Research, University of Bern
The Development Of A Personalized Fall Rate Model: A Cohort Analysis
- B-208** **Lukas Zbinden**, ARTORG Center for Biomedical Engineering Research, University of Bern
Single-Modal vs. Multi-Modal Neural Network Input: A Dixon T1 Vibe In-Phase Sequence Is All You Need For Fully Automated Liver Parenchyma And Vessel Segmentation
- B-209** **Karoline-Marie Bornemann**, ARTORG Center for Biomedical Engineering Research, University of Bern
Geometrical Parameterization Of The Aortic Wall To Investigate The Evolution Of Hydrodynamic Instabilities Initiating Laminar-Turbulent Transition Past Bioprosthetic Aortic Valves
- B-210** **Adrian Ryser**, sitem Center for Translational Medicine and Biomedical Entrepreneurship, University of Bern
Modulation Scheme Comparison for Low-Power Multisite Leadless Pacemaker Synchronization Based on Conductive Communication

- B-138* **Katalin Bartos**, Department of Nephrology and Hypertension, University of Bern
Osteoblast-specific Deletion of *Memo1* in Mice Severely Impairs the Expression of FGF23
- B-139* **Marianna Rosso**, Animal Welfare Division, University of Bern
Reliability of Mouse Behavioural Tests of Anxiety: a Systematic Review and Meta-Analysis on the Effects of Anxiolytics
- B-140* **Andrew Francis Brown**, Institute of Bee Health, University of Bern
Honeybee Nutrition and Microbiota
- B-141* **Maria Jose Duque-Correa**, Clinic for Zoo Animals, Exotic Pets and Wildlife, Vetsuisse Faculty, University of Zurich
Vertebrate Intestinal Length: Effect of Diet and Flight
- B-142* **Henrik D. Mettler**, Department of Physiology, University of Bern
Evolving Neuronal Plasticity Rules using Cartesian Genetic Programming
- B-143* **Ngoc Dung Le**, Institute for Infectious Diseases, University of Bern
Maraviroc Reduces Hippocampal Apoptosis in Experimental Pneumococcal Meningitis
- B-144* **Ranjana Gigi**, Institute of Social and Preventive Medicine, University of Bern
Genital Tract Infections, the Vaginal Microbiome and Preterm Birth in South Africa
- B-145* **Raphael Rätz**, Motor Learning and Neurorehabilitation Laboratory, ARTORG Center for Biomedical Engineering Research, University of Bern
Robotic Neurorehabilitation: A Novel Clinical-Driven Device for Sensorimotor Upper-Limb Training
- B-146* **Klaus Schuerch**, Hearing Research Laboratory, ARTORG Center for Biomedical Engineering Research, University of Bern
Increasing the Reliability of Real-time Electrocochleography during Cochlear Implantation – a Standardized Guideline
- B-147* **Marie Roig-Pons**, Animal Welfare, University of Bern
Slowfeeders and Horses: Adapting an Automatic Monitoring Device and Investigating Consequences on Horses' Health and Behaviour
- B-148* **Chaonan Jin**, Hepatology, Department for BioMedical Research, University of Bern
Endoplasmic Reticulum and Mitochondria Contacts Increase in NASH
- B-149* **Gregory Lepeu**, Center for experimental neurology, Department of Neurology, Inselspital, University of Bern
Probing Cortical Excitability And Seizure Resilience Under GABAergic Modulation
- B-150* **Irene Spera**, Theodor Kocher Institute, University of Bern
Cerebrospinal Fluid Outflow Pathways at the Cribriform Plate Along the Olfactory Nerves
- B-155* **Klara Johanna Grethen**, ZTHZ, Division of Animal Welfare, VPH Institute, University of Bern
(In)stability of Chicken Hierarchies: Dominance Rank Changes after Maturation
- B-156* **Camille Marie Montalcini**, ZTHZ, Division of Animal Welfare, VPH Institute, University of Bern
Individuality of Early Movement in a Commercial Laying Barn Associate with Late Health
- B-157* **Patric Wyss**, University Hospital of Old Age Psychiatry and Psychotherapy, University of Bern
Adaptive Data-driven Selection Of Sequences Of Biological And Cognitive Markers In Clinical Diagnosis Of Dementia

- B-158* **Cecilia Bazzini**, Department of Dermatology, Inselspital, Bern University Hospital
T_H9 Cells Depend On Cystine Uptake And PPAR- γ Signaling To Prevent Unchecked Lipid ROS And Cell Death
- B-159* **Thomas Höhener**, IZB, Bern
Litos - a Versatile Led Illumination Tool for Optogenetic Stimulation
- B-160* **Maria Natalia Rojas Velazquez**, Pediatric Endocrinology and Metabolism, University Children's Hospital Bern, University of Bern
Loss Of Protein Stability And Function Caused By A Single Point Mutation In The Cytochrome P450 Oxidoreductase
- B-161* **Katyayani Sharma**, Department of Bio-medical Research (DBMR), University of Bern
Essential Oil Metabolites Can Regulate Adrenal Androgen Production
- B-162* **Serena Melgrati**, GCB, University of Bern
Discovery and Characterization of a Novel Atypical Chemokine Receptor
- B-163* **Elisa Rodrigues Sousa**, Department For BioMedical Research - Urology Research Laboratory, University of Bern
A New Mouse Model To Study The Role Of Oncofetal CRIPTO In Aggressive Lethal Prostate Cancer
- B-164* **Cristina Kalbermatter**, Department for BioMedical Research (DBMR), University of Bern
The Role of Maternal Microbiota in Durably Shaping Intestinal Immunity and Gene Expression in the Offspring Through Epigenetic Mechanisms
- B-165* **Lusine Hovhannisyan**, Department of Biomedical Research, Radiation Oncology, University of Bern
Radiation Therapy Enhances Anti-tumor Activity of a MET CAR T-based Immunotherapy for Glioblastoma
- B-166* **Dennis Imhof**, Institute of Parasitology, Vetsuisse Faculty, University of Bern
Safety And Efficacy Evaluation Of A *Listeria Monocytogenes*-based Vaccine Formulation Against Neospora Caninum Infection In Pregnant Mice
- B-167* **Zahra Gharailoo**, DBMR, University of Bern
Generating a VLP (Virus-Like Particles) based vaccine against IgE
- B-168* **Max Heydasch**, Institute of Cell Biology, University of Bern
DLC1, a Rho-specific GAP as a Mechanosensitive Feedback Mechanism for Edge Contractility
- B-169* **Steven Lukas Misztal**, Department of Visceral Surgery and Medicine, Inselspital, Bern University Hospital, University of Bern
Mechanisms of Early Life Host Microbial Mutualism
- B-170* **Benedetta De Ponte Conti**, Università della Svizzera Italiana, Institute for Research in Biomedicine, Bellinzona
Probing Gut-tumor Axis During Therapy with Immune Checkpoint Inhibitors by Modulating Intestinal Extracellular ATP
- B-171* **Darya Karatkevich**, Department of BioMedical Research
Schedule-dependent Treatment Increases Chemotherapy Efficacy in Malignant Pleural Mesothelioma
- B-172* **Daniëlle Verschoor**, Institute of Pharmacology, University of Bern
Glucocorticoids On Eosinophils; a Bless Or a Curse?

- B-173* **Kemal Mehinagic**, Institute of Virology and Immunology IVI, Mittelhäusern
Identification And Characterisation Of Essential And Non-essential Genes Of African Swine Fever Virus
- B-174* **Emilia Radulovic**, Institute of Virology and Immunology IVI, Mittelhäusern
Immunization With a Field Attenuated Strain Protects SPF, but Not Farm-raised, Pigs Against a Virulent African Swine Fever Virus Challenge
- B-175* **Chiara Pozzato**, Institute of Pharmacology, University of Bern
The Role Of Focal Adhesion Kinase In Lung Cancer Progression
- B-176* **Nadine Anslinger**, Biotechnology Institute Thurgau (BITg) at the University of Konstanz, Kreuzlingen
The Role of Sprouty in Dendritic Cell Migration and Induction of Adaptive Immunity
- B-177* **Simon Zinkhan**, DBMR, Universität Bern
On The Role Of CD23 On B Cells In Generating A Protective Immune Response Against Allergic Anaphylaxis In A Murine Model
- B-211 **Lea Gigon**, Institute of Pharmacology, University of Bern
Mechanism of Toxicity Mediated by Eosinophil Major Basic Protein
- B-212 **Luca Beldi**, Institute for Infectious Disease, University of Bern
Microbe-Microbe Interactions In *Clostridioides Difficile* Infection
- B-213 **Steve Robatel**, Institute of Pathology, University of Bern
Highly Multiplex, Spatially Resolved Immunophenotyping of Pancreatic Cancer for Biomarker Discovery and Identification of Therapeutic Targets
- B-214 **Lukas Martin Probst**, Institute for Infectious Diseases, University of Bern
Generation and Characterization of a Fluorescent Influenza D Reporter Virus
- B-215 **Amal Fahmi**, Institute of Virology and Immunology, Bern
Modeling Neurotropic Virus Infection using Human Cerebral Organoids
- B-216 **Liang Zhao**, Division of General Thoracic Surgery, Bern University Hospital
LDHB Inhibition Promotes Ferroptosis-mediated Cell Death in Lung Cancer
- B-217 **Christiana Victoria Cismaru**, Institute of Virology and Immunology (IVI), Bern and Mittelhäusern
A LC3-Interacting Motif In The M2 Protein Is Important For Efficient Release Of Infectious Influenza A Virus
- B-218 **Aref Hosseini**, Institute of pharmacology, University of Bern
Eosinophil Function(s) In Adipocyte Homeostasis
- B-219 **Joana Jorge da Costa**, Graduate school for Cellular and Biomedical Sciences , University of Bern
Quantification of IL-1 β with Electrochemical Biosensors by Electrochemical Impedance Spectroscopy (EIS), Using Screen Printed Electrodes
- B-220 **Vedat Burak Ozan**, Department for Biomedical Research, University of Bern
Induced Pluripotent Stem Cell Derived Alveolar Lung Organoids
- B-221 **Jan M. Sobczak**, Department for BioMedical Research (DBMR), University of Bern
Mosaic, Virus-Like Particle Based Vaccine CuMV γ -Ara h 2 For Peanut Allergy Treatment

- B-222 **Adam Zabini**, Department for Biomedical Research, University of Bern **Identification And Exploring the Dual Role of SPRR2A in Invasiveness and Therapeutic Resistance in Head and Neck Squamous Cell Carcinoma**
- B-223 **Leonhard Schink**, Biotechnology Institute Thurgau (BITg) at the University of Konstanz **Elucidating the Effect of Single-Nucleotide Mutations on CCR7 Signaling and Migration**
- B-224 **Chang Wang**, Insitutue of anatomy , University of Bern **Uncovering The Protein Composition And Function Of Connectors Between Synaptic Vesicles**

- B-178* **Ana Kalichava, Cell Biology**, University of Bern
Ultrastructure Expansion Microscopy in *Trypanosoma brucei*
- B-179* **Markus Gerber**, Departement für Chemie, Biochemie und Pharmazief
Investigating The Role Of Msp1 In *Trypanosoma Brucei* Mitochondrial Quality Control
- B-181* **Philipp Müller**, DCB Universität Bern, Universität Bern
Giant Unilamellar Vesicles: A Bottom Up Cell Mimetic System
- B-182* **Matthias Licheri**, Institute for Infectious Diseases, University of Bern
Establishment of a Selective Whole Genome Amplification Protocol for Large Complex DNA Viruses
- B-183* **Quentin-F. Oliveres**, Institut für Pflanzenwissenschaften
A Branched Chain Amino Acids Transporter In The Procylic Form Of *Trypanosoma brucei*
- B-184* **Joao Filipe Marques**, Center for Experimental Neurology, Department of Neurology, Inselspital University Hospital, University of Bern
Impact Of Aggregation-prone C9ORF72-ALS Dipeptide Repeat Proteins On Na/K-ATPase
- B-185* **Marc Kaethner**, Institute of Parasitology, Vetsuisse Faculty, University of Bern
The Achilles' Heel Of The Fox Tapeworm? - Investigation Of The Threonine Metabolism Of *Echinococcus Multilocularis*
- B-186* **Sarah Widmer**, Institute of Genetics, Vetsuisse Faculty, University of Bern
A Major QTL At The *LHCGR/FSHR* Locus For Multiple Birth In Holstein Cattle
- B-187* **Liana Hayrapetyan**, Department of Radiation Oncology, Inselspital, Bern University Hospital
Behavioral and Neuronal Characterization of Mice Lacking Serine1014 Phosphorylation of the Receptor Tyrosine Kinase MET
- B-188* **Leon Kleemann**, Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern
The Role of tRNA Position 37 Modifications in Translation and Translation-associated Diseases
- B-189* **Joel Pascal Werren**, Institute for Infectious Diseases, Faculty of Medicine, University of Bern
Serotype Dependent Regulation Of Capsule Thickness During Nasopharyngeal Colonization Of *Streptococcus Pneumoniae*
- B-190* **Roman Alois Mahler**, Department of Chemistry, Biochemistry and Pharmaceutical Sciences, University of Bern
Reactive Oxygen Species As Possible Energy Source For *E. Coli* During Infections?
- B-191* **Nicole Wildi**, Vetsuisse/DCR-VPH, University of Berne
The Role Of Untranslated Regions And Their Secondary Structures In Astrovirus Replication
- B-192* **Sonia-Emilia Selicean**, Department for BioMedical Research (DBMR), Hepatology, University of Bern
Characterizing the Mechanosensing-Mediated Endothelial Transcriptional Regulation in Chronic Liver Disease

- B-193* **Jonathan Save**, Department of Intensive Care Medicine, Bern University Hospital
Phage Therapy Against *Staphylococcus aureus* in an Experimental Rat Model of Infective Endocarditis
- B-194* **Andrea Timpanaro**, Division of Pediatric Hematology and Oncology, Department of Pediatrics, Inselspital, Bern University Hospital, University of Bern
CD276 CAR T Cell Therapy for Rhabdomyosarcoma
- B-195* **Vasundhara Rao**, Institute of Cell Biology, University of Bern
Mechanisms of Cytoskeletal Feedback to Rho GTPase Signaling
- B-196* **Sara Doina Schütz**, Interfaculty Bioinformatics Unit, University of Bern
Functional Characterization Of *Francisella tularensis holarctica* Genotypes With A Proteogenomic Approach
- B-197* **Mariko Dale**, Institute of Animal Pathology, University of Bern
The Spatial and Temporal Importance of Secreted Effector Proteins in Intestinal Infection with *Cryptosporidium parvum*
- B-225 **Matthias Christen**, Institute of Genetics, Vetsuisse Faculty, University of Bern
Deletion Of The *SELENOP* Gene Leads To CNS Atrophy With Cerebellar Ataxia In Dogs
- B-226 **Sarah Kiener**, Institute of Genetics, Vetsuisse Faculty, University of Bern
***ABHD5* Frameshift Deletion In Golden Retrievers With Ichthyosis**
- B-227 **Akshay Akshay**, Urology Research Laboratory, Department for BioMedical Research, University of Bern
A Vigorous Machine Learning-Based Framework for the Identification of LUTD Biomarkers
- B-228 **Jan Schulte**, ARTORG Center, University of Bern
Investigations Tn Alveolar Epithelial Cells Tn Lung-on-chip
- B-229 **Christian Urzi**, Magnetic Resonance Methodology, Institute of Diagnostic and Interventional Neuroradiology, University of Bern
Compartment-Specific Metabolic Investigation of 3D Cell Culture by Real-time NMR for Investigating Metabolic Diseases
- B-230 **Christoph Meyer**, Magnetic Resonance Methodology, Institute of Diagnostic and Interventional Neuroradiology, University of Bern
Selective Galactose Culture Condition Reveals Distinct Metabolic Signatures In Complex I And V Deficient Human Skin Fibroblasts By ¹H HR-MAS NMR
- B-231 **Rim Diab**, Center for Experimental Neurology, Department of Neurology, Inselspital University Hospital, University of Bern
Integrated cross talk between C9ORF72 and Cellular Clearance Machinery in C9ORF72 linked-ALS
- B-232 **Laura Jahnke**, Dept. of Ophthalmology, University Bern
Interaction Of Gliotic And Fibrotic Response During Scar Formation In Retina

15:30 - 15:45 | Break



15:45 - 16:30 | [GCB Awards for Best PhD Thesis](#)

Session Chair: Prof. Dr. Rupert Brückmaier, President GCB PhD Committee

Award recipients will be announced during this session. Each recipient will be introduced by his or her thesis supervisor and then the recipient will present his or her project.

16:30 - 17:00 | [GCB Symposium Keynote Address](#)

Session Chair: Prof. Dr. Dominik Obrist

Michael S. Sacks, Ph.D.

W. A. "Tex" Moncrief, Jr. Chair in Simulation-Based Engineering Sciences

Professor of Biomedical Engineering

Director, The Oden Institute James T. Willerson Center for Cardiovascular Modeling and Simulation

17:00 - 17:15 | [Closing Remarks](#)

Session Chair: PD Dr. Monica Schaller, GCB Coordinator



Virtual Apéro

Thank you to all participants. You are all invited to stay online while we raise a glass to toast you in a virtual Apéro.

Abstract Nr. Key

T-xxx (e.g. T-001) – Talks

A-xxx (e.g., A-001) – Poster Session A

B-xxx (e.g., B-001) – Poster Session B

Asterisks “*”, (e.g., A-011*) – Poster Flash and Poster Session

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Aeschlimann, Salome Johanna	T-038	Beilleau, Guillaume Francois Frederic	A-058*
Akshay, Akshay	B-227	Beldi, Luca	B-212
Alex Johny, Alex Johny	A-049*	Bergaglio, Talia	A-024*
Alinaitwe, Lordrick	A-043*	Berto Gomes, Luiz Antonio	A-128
Alves Fernandes, Paula	A-093*	Berve, Kristina Carolin	B-106*
Andronikou, Christina	T-036	Beyeler, Raphael Nicola	B-102*
Anslinger, Nadine	B-176*	Bindschedler, Annina Flavia	T-033
Ardali, Razieh	A-121	Birrer, Fabienne Esther	B-202
Arenas Hoyos, Isabel	A-071*	Boccalaro, Ida Luisa	A-100
Avanthay, Robin Werner	A-117	Bornemann, Karoline-Marie	B-209
Bachmann, Chantal Lea	A-072*	Borsa, Micaela	A-018*
Bahrami, Flora	T-005	Boukenna, Mey	B-201
Balmer, Erina Alexandra	A-061*	Bregy, Irina	A-060*
Bartos, Katalin	B-138*	Brogli, Rebecca	T-019
Bazzini, Cecilia	B-158*	Brown, Andrew Francis	B-140*
Beckmann, Katrin	A-041*	Brühlmann, Francis	T-013
Beer, Patricia Katiana	A-115	Bucciarelli, Aurelia Lucilla	T-013

Author	Nr.	Author	Nr.
Buffle, Eric Jacques	A-042*	Dhokotera, Tafadzwa Gladys	A-055*
Bulatović, Milica	A-106	Diab, Rim	B-231
Buri, Michelle	A-073*	Doorenbos, Lars Jelte	A-105
Burri, Christian	A-022*	Dudle, Alice	A-035*
Cantieni, Tarcisi	A-037*	Duque Correa, Maria Jose	B-141*
Capiglioni, Milena Sofía	B-121*	Dzhumashev, Dzhumashev	T-035
Cerquetella, Carlo	B-198	Eggers Aracena, Cristian Eduardo	A-080*
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