



15th Swiss Pharma Science Day 2022

CONFERENCE REPORT

Prof. Dr. Rudolf Brenneisen, Secretary General SAPhS

After the cancelled SPhSD 2020, due to the pandemic, and the virtual SPhSD 2021 this year's SPhSD could again be performed in the physical presence mode. Since 2008 the SPhSD has been situated at the Bern University Hospital (Inselspital) and now for the first time at the new Von Roll Campus of the University of Bern. Four distinguished speakers with different backgrounds presented their research and perspectives to the general conference topic «*Immunology*». In between the lecture sessions, 59 posters were exhibited by young academics debating exciting data out of the main pharmaceutical research areas. Again, 6 posters could be awarded one of the appreciated sponsored poster prizes. As for the first time in 2019, the afternoon session included 15-min oral presentations of 4 selected poster abstracts, offering young scientists the opportunity to also present their work in the audience hall. Appreciated by the organizers, the online evaluation of the FPH-accredited event showed an average overall rating of 3.5 (max. 4).

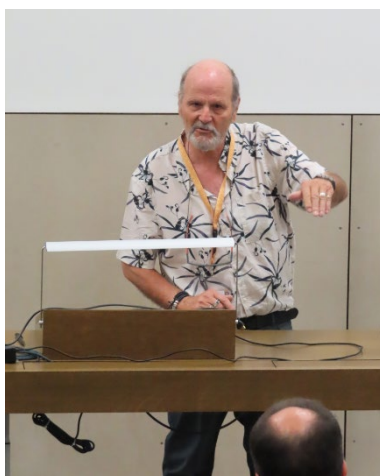
A retrospect of the SPhSD 2022 can be found at the [SAPhW website](#). Downloads include conference booklet with program, speakers' biosketches, lecture and poster abstracts, poster and fellow awards as well as the conference report.

Morning Session – Welcome Addresses and Lectures 1-2

Prof. Ursula von Mandach (foto 1), SAPhS Co-President, and **Prof. Rudolf Brenneisen** (2), General Secretary and SPhSD organizer, opened the 15th SPhSD and welcomed about 120 attendees (4-6) from universities, industry as well as professional associations and societies. Then followed a welcome address of **Prof. Christian Leumann** (3), Rector of the University of Bern and SAPhS Fellow.



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The morning session was chaired by **Prof. Verena Schröder** (7), Co-President of the SAPHs. She introduced the keynote speaker **Prof. Stephanie Ganai-Vonarburg** (8 & 9), Department for BioMedical Research DBMR, University of Bern. The awardee of the Pfizer Research Prize 2022 was talking about «*Gut Bacteria Can Program Antibodies*». The abstract of her lecture (L-1) can be found on p. 7 of the conference booklet.



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The second speaker was **Prof. Daniel Ricklin** (10 & 11), Department of Pharmaceutical Sciences, University of Basel, discussing in his lecture the topic «*Mission Possible: Therapeutic Immune Modulation by Targeting the Human Complement System*». The abstract of this lecture (L-2) can be found on p. 8 of the conference booklet.



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Lunch Break and Poster Session

Over an extended lunch break with an excellent buffet, offered by the local ZFV mensa, the participants had the chance to socialize, network, visit the poster exhibition and interact with the authors presenting posters in different topic categories, reflecting the wide field of pharmaceutical research. The 59 posters were classified in the following 7 categories: Pharmaceutical Biology / Phytopharmacology (3), Pharmaceutical Technology (15), Pharmacoepidemiology (3), Clinical Pharmacy / Clinical Pharmacology (13), Molecular Pharmacology/Molecular Medicine (11), Analytics (4), and Pharmacology / Biopharmacy (10). For poster abstracts see pp. 14-78 of the conference booklet.

Afternoon Session – Short Oral Presentations, Lectures 3-4 and Award Ceremony

The afternoon session was moderated by **Prof. Klaus Eyer**, ETH Zurich, member of the senate's board of SAPHs. In the 60-min session «Oral Presentations – Selected Abstracts» 4 poster presenters, selected by the reviewer board, was offered a platform to also discuss their excellent work in the audience hall. The 4 speakers and their presentations were:

Nina L. Wittwer (12), University of Basel & University Hospital Basel: «Utilization of pharmacogenetic drugs in Switzerland» (poster IV-3).

Kevin Portmann (13), ETH Zurich: «Unravelling pro-inflammatory dynamics of individual cytokine-secreting cells through deep phenotypic single-cell analysis» (poster VI-2).

George Ramzy (14), University of Geneva: «Patient-derived platform to leverage personalized treatment for colorectal carcinoma» (poster V-9).

Simone Aleandri (15), University of Bern: «Lipidic based-gel with tunable release properties as a platform for local delivery of biotherapeutics» (poster II-2).



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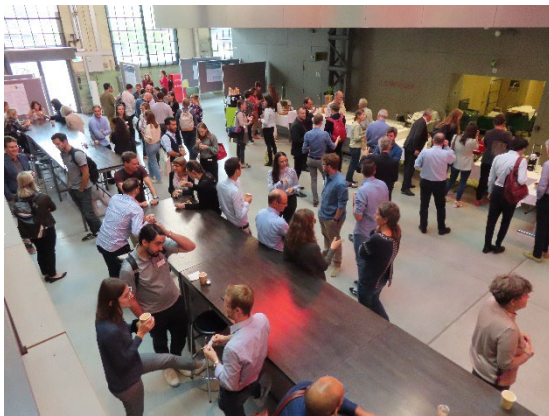
The following lecture was given by **Prof. Alexander Eggel** (16), University Hospital Inselspital Bern and Department for BioMedical Research DBMR, University of Bern. He was talking about «*Development and Implementation of a New Approach to Diagnose and Monitor Allergic Diseases*». For this work he got the prestigious University of Bern Theodor-Kocher Prize 2021 and together with his research team at ATANIS Biotech in 2022 the «Berner Business Creation Wettbewerb STAGE UP». Worth mentioning, that Noemi Zbären – not only a successful biochemist but also top Swiss athlete with records in the 100-m hurdles, is the driving force behind this project and young spin-off of the University of Bern. The abstract of this lecture (L-3) can be found on pp. 10-11 of the conference booklet.



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The last speaker of the afternoon was **Prof. Werner J. Pichler**, University of Bern and ADR-AC GmbH, discussing the topic «*Pharmacology Meets Immunology: the p-i Concept*». The abstract of his lecture (L-4) can be found on pp. 12-13 of the conference booklet.

After the well deserved coffee break (17 & 19) the 15th SPhSD ended traditionally with the award ceremony, chaired by the SAPHs Co-Presidents Proffs. Ursula von Mandach and Verena Schröder (18).



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Frédéric Zwahlen (20) was awarded **SAPHs Fellow 2022** for «His generous support of the Swiss Pharma Science Day during many years, the constant and fruitful collaboration with the Swiss Academy of Pharmaceutical Sciences, and his ongoing interest in Pharmacy education». Frédéric Zwahlen is biochemist, Vice- and Senior President at Vifor Pharma Fribourg and President of GSIA.



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Dr. Andreas Schittny (21) from the Swiss Young Pharmacists Group (swissYPG) introduced the winner of the «swissYPG Flash-Talks», Sarah Teworte, University of Bern (22). She presented her inspiring flash-talk on «Developing improved treatments for endometriosis». These Flash-Talks were organized for the first time in 2022 by swissYPG and took place at The House of the University of Bern the afternoon before the SPhSD. This pre-event aims to provide a platform for an additional mode of presentation and more extensive exchange between young pharmaceutical scientists.

The award ceremony continued by announcing the six **poster prizes** for outstanding research work. Evaluation criteria used by the reviewer board (23) were: project objectives and innovation, methods, results, conclusion vs. data, overall scientific value and relevance, presentation and graphics. This year the prizes were again sponsored by AKB Foundation, GSIA Foundation, Pharmaceutical Society of Zurich, Vifor Pharma, Max Zeller Söhne AG, and Glatt Group.

The **First Prize**, sponsored by the AKB Foundation, was awarded to **Rahel Wallimann** (24) et al., Novartis Institutes for Biomedical Research, Novartis Basel & Center for Radiopharmaceutical Sciences ETH-PSI-USZ, Paul Scherrer Institute, Villigen-PSI, for poster VI-1, entitled «*High-sensitivity ICP-MS as tool for the in vitro and in vivo characterization of future radiometal-based theranostics*».

The **Second Prize**, sponsored by the GSIA Foundation and handed over by its President Frédéric Zwahlen, was awarded to **Nicole Schönenberger** (25) et al., Clinical Pharmacology and Toxicology, Department of General Internal Medicine, University Hospital of Bern Inselspital, for poster IV-11, entitled «*Development of a pocket card to guide medication counseling at hospital discharge*».

The **Third Prize**, sponsored by the Pharmaceutical Society of Zurich (PharmGZ) and handed over by its President Dr. Angela Küng, was awarded to **David Klein Cerrejon** (26) et al., Department of Chemistry and Applied Biosciences, ETH Zurich, for poster VII-9, entitled «*Boosting buccal absorption of biopharmaceuticals with a bioinspired suction device*».

The **Special Prize**, sponsored by Vifor Pharma, was awarded to **Samuel Waldner** (27) et al., Division of Pharmaceutical Technology, Department of Pharmaceutical Sciences, University of Basel, for poster II-14, entitled «*Application of deep learning to the analysis of time-resolved (4D) micro-computed tomography data*».

The prize for the **best poster in Pharmaceutical Biology/Phytopharmacology**, sponsored by Max Zeller Söhne AG and handed over by its Medical Director Prof. Veronika Butterweck, was awarded to **Morris Keller** (28) et al., Pharmaceutical Biology, Department of Pharmaceutical Sciences, University of Basel, for poster I-1, entitled «*Aryltetralin lignans from Hyptis brachiata inhibiting human T-cell proliferation*».

The prize for the **best poster in Pharmaceutical Technology**, sponsored by the Glatt Group and handed over by Prof. Matthias Hamburger, was awarded to **Alizée Cosseron** (29, together with Prof. Matthias Hamburger, SPhSD co-organizer) et al., School of Pharmaceutical Sciences ISPSO, University of Geneva,

for poster II-11, entitled «*Development of a gastro-resistant formulation for a complex mixture of microorganisms*».

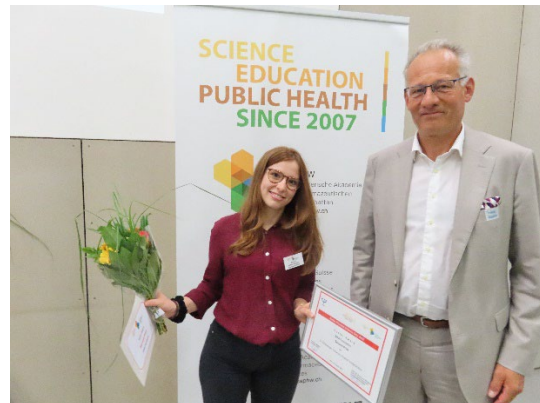
For poster prize winners (30) and abstracts see also [SAPhW website](https://www.saphw.ch).



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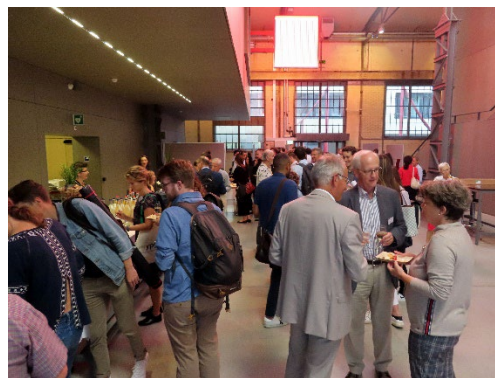


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Closing Remarks, Acknowledgements and Save-the-Date

By closing the 15th SPhSD the organizers Proffs. Rudolf Brenneisen and Matthias Hamburger addressed thanks to the participants for once more coming to Bern, the four speakers for their excellent presentations, the chairs, the members of the abstract and poster reviewer board (Proffs. Muriel Cuendet, Matthias Hamburger, Jörg Huwyler, Klaus Eyer, Rudolf Brenneisen), Francesca Vollenweider for fotos and award bunch of flowers, Stadtgrün Bern for the gorgeous flower arrangement in the audience hall, all colleagues of the SAPHs senate's board who assisted to realize the SPhSD 2022, and last but not least the people of the Von Roll Campus for the excellent catering and technical support.

As a tradition the 15th SPhSD 2022 ended with drinks, snacks and sweets allowing to wrap-up challenging lectures and stimulating posters, socializing, and professional networking, one of the main goals of the SPhSD.



Everybody is welcome to participate in the **16th SPhSD 2023**, again at the Von Roll Campus of the University of Bern. **Please already save the date Saturday 23 September 2023. Hope to see you all again!**

Bern, December 22, 2022

Comments, suggestions, questions to:

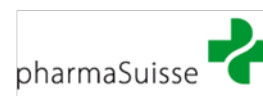
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