

Research @ Department of Neurology

Dear Reader,

With this newsletter, we have the pleasure to give you insights into ongoing research activities at our Department and to portrait the people behind it. In addition, we would like to inform you about upcoming events, recent publications and open calls for proposals.

We hope you will enjoy reading it!

The [Research Board](#) of the Department of Neurology

July/ August 2020

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Just Asking...

PD Dr. med. Roza Umarova



What are your main research interest?

My main research interest is inter-individual variability in stroke recovery and its prediction. Both in the acute and chronic stroke phase, patients demonstrate big differences in severity of neurological deficits despite comparable lesion load. While applying advanced neuroimaging (functional MRI, diffusion tensor imaging) together with analysis of lesion load, I investigate the predictors and neural mechanisms of distinct courses of stroke recovery (1, 2). For the broader application, I seek for proxies that can readily be applied in the clinical praxis. I suggest that the concepts of brain reserve and cognitive reserve might herein be helpful (3, 4). In the current project, I am also interested in the deterioration of cognition and disability in stroke patients that occur in almost 25% of patients later, within the first year post-stroke without any obvious reason – so called “delayed deterioration”.

What is your motivation to do research?

Already during my years in school, I was excited to read about brain functioning. The human brain is a mysterious organ, which defines who we are. On the other side, we can modulate and moderate the brain structure through our behavior. The brain possesses enormous plasticity and in parallel strikingly vulnerability. We might never understand it completely, but it inspires me to try to make a step, though a tiny one, forwards a better understanding of brain functioning.

I am fascinated to see a huge inter-individual variability in stroke recovery. My motivation is to understand its underlying mechanisms deeper, as only then we can modulate stroke recovery and the chronic post-stroke phase effectively.

References

1. Umarova RM, Nitschke K, Kaller CP, Klöppel S, Beume L, Mader I, et al. Predictors and signatures of recovery from neglect in acute stroke. *Ann Neurol* 2016; 79: 673–86.
2. Umarova RM, Beume L, Reisert M, Kaller CP, Klöppel S, Mader I, et al. Distinct white matter alterations following severe stroke Longitudinal DTI study in neglect. *Neurology* 2017; 88: 1546–55.
3. Umarova RM. Adapting the concepts of brain and cognitive reserve to post-stroke cognitive deficits: Implications for understanding neglect. *Cortex* 2017; 97: 327–38.

4. Umarova RM, Sperber C, Kaller CP, Schmidt CSM, Urbach H, Klöppel S, et al. Cognitive reserve impacts on disability and cognitive deficits in acute stroke. *J Neurol* 2019; 266: 2495–504.

PD Dr. Roza Umarova, Oberärztin I, is responsible for the out-patient clinics of general neurology and cognitive neurology; she is PI of the project “Prediction of post-stroke cognitive decline and dementia: impact of cognitive reserve and post-stroke lifestyle” of the stroke research group. Contact: roza.umarova@insel.ch

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Congratulations

(1) Awarded Grants



Prof. Dr. med. Andrew Chan (Co-Applicant)

Together with:

Fraunhofer-Institut IGB, MyBiotech GmbH (Germany), Hochschule Biberach (Germany), Laboratorio Europeo di Spettroscopia non-lineare (Florence, Italy), Ethniko Kentro Erevnas Kai Technologikis Anaptyxis (Thessaloniki, Greece), Queen Mary University of London, University of Cambridge, Contipro a.s. (Czech Republic)

Funding Institution:

Horizon 2020/ Marie Skłodowska-Curie Innovative Training Network (ITN) ([Link](#))

Title:

Nose-to-Brain Delivery of Biopharmaceutics for the therapy of central nervous system diseases: A design-based approach for efficient drug delivery systems (Bio2Brain)

Awarded Grant:

EUR 281'276.64



Prof. Dr. med. Paul Krack

(Main Applicant)



Dr.med. Lenard Lachenmayer

(Co-Applicant)

Together with:

Prof Olaf Blanke EPFL, Prof Dimitri Vandeville EPFL and
Dr Vanessa Fleury HUGE

Funding Institution:

EPFL/ Fondation Bertarelli Catalyst Fund Call 2020 ([Link](#))

Title:

Unraveling the impact of levodopa on dysfunctional brain
networks in Parkinson's disease with neuropsychiatric
fluctuations

Awarded Grant:

CHF 279'349



Dr. med. Nicole Kamber

(Main Applicant)



Dr.med. Helly Hammer

(Main Applicant)



Prof.Dr.med. Andrew Chan

(Co-Applicant)

Funding Institution:

Biogen ([Link](#))

Title:

Evaluation of Fampridine Treatment Response by Triple
Stimulation Technique

Awarded Grant:

CHF 60'000

(2) Outstanding Publications



Lukas T. Oesch, PhD
(First Author)

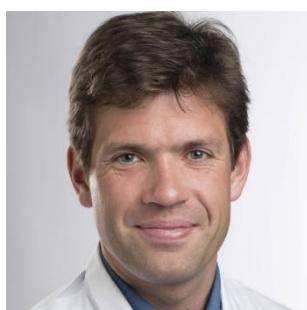


Prof. Dr. Antoine Adamantidis
(Last Author)

Publication details

Oesch LT, Gazea M, Gent TC, Bandarabadi M, Gutierrez Herrera C, Adamantidis AR. *REM sleep stabilizes hypothalamic representation of feeding behavior*. Proceedings of the National Academy of Sciences of the United States of America, 2020 Jul 30;201921909. [doi: 10.1073/pnas.1921909117](https://doi.org/10.1073/pnas.1921909117).

[Press Release](#)



Publication details

Sokolov A, Zeidman P, Erb M, Pollick FE, Fallgatter AJ, Ryvlin P, Friston KJ, Pavlova MA. *Brain circuits signaling the absence of emotion in body language*. Proc Natl Acad Sci U S A. 2020 Aug 6;202007141. [doi: 10.1073/pnas.2007141117](https://doi.org/10.1073/pnas.2007141117).

PD Dr. Dr. Arseny Sokolov
(First Author)



Prof. Dr.med. Kaspar Schindler
(Co-Author)



Dr.med. Frédéric Zubler
(Co-Author)

Publication details

Rossetti AO, **Schindler K**, Sutter R, Rüegg S, **Zubler F**, Novy J, Oddo M, Warpelin-Decrausaz L, Alvarez V. *Continuous vs Routine Electroencephalogram in Critically Ill Adults With Altered Consciousness and No Recent Seizure: A Multicenter Randomized Clinical Trial.* JAMA Neurol. 2020 Jul 27. [doi:10.1001/jamaneurol.2020.2264](https://doi.org/10.1001/jamaneurol.2020.2264).

[Media Response](#)

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Call for Grants and Prizes

sitem-insel Support Funds (SISF)

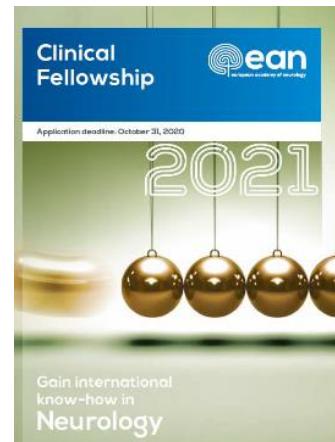
- The SISF were established for the purpose of extending the group of users in defined and approved sitem-insel research platforms within the University of Bern.
- To that end, the University of Bern provides a limited amount of funding which should support the recipients in their efforts to develop activities and launch projects in approved sitem-insel research platforms.
- The contribution is used to help purchase services in certified sitem-insel research platforms (services and material costs). It cannot be used to cover personnel or administration costs.
- The program is structured as a matching fund program (co-financing). Matching funds can consist of both cash and in-kind contributions.
- The extended Research Board of the Translational Imaging Center (TIC) **offers to check applications prior to submission** with regard to possible technical and methodological challenges. This service will be handled confidentially and a feedback will be given immediately (the meetings take place once a week). If you wish to call upon this service, please **send a short project description** (max. one page) to Prof.em. Lutz Nolte (lutz.nolte@artorg.unibe.ch).
- **Submission Deadline: 15 September 2020** [Link](#)

SNF: Project Funding

- With its project funding scheme, the SNF enables researchers to independently conduct research projects with topics and goals of their own choice.
- Applicants can apply for funding of research costs and staff salaries, as well as of scientific cooperation, networking and communication; however, they may not apply for their own salaries.
- The funding period ranges from one to four years, with grants starting at CHF 50'000 (minimum amount). The SNF recommends that researchers focus on one project and plan it for a four-year period.
- **Submission Deadline: 1 October 2020** [Link](#)

EAN Clinical Fellowship Programme 2021

- The objective of the “Clinical Fellowship Programme” is to provide a well-defined clinical observational experience in a department with recognized expertise in a specific field.
- With this program, neurologists that are still in the process of training, or recently qualified and setting up a new service/practice can learn from observing the usual practice in that new department, including any or all of clinical practice, service structures or specific techniques conducted in the Hosting Department.
- The program is designed for a minimum stay of 6 up to a maximum of 12 weeks in a Hosting Department outside the country of residence (with a minimum of frequency of 5 days/week in each weeks).
- Submission Deadline: 31 October 2020** [Link](#)



Other Open Calls for Proposals

- EAN Research Fellowships: Research Training and Research Experience Fellowship*
Deadline: 31 August 2020 [Link](#)
- Swiss Foundation for Research on Muscle Diseases*
Deadline: 31 August 2020 [Link](#)
- SNF: Early Postdoc.Mobility*
Deadline: 1 September 2020 [Link](#)
- SNF: Doc.Mobility*
Deadline: 1 September 2020 [Link](#)
- UniBE ID Grants*
Deadline: 1 September 2020 [Link](#)
- 120%-Care-Grant für Postdocs*
Deadline: 1 September 2020 [Link](#)
- Johanna Dürmüller-Bol DBMR Research Award*
Deadline: 7 September 2020 [Link](#)
- Marie Skłodowska-Curie Individual Fellowships*
Deadline: 9 September 2020 [Link](#)

- *sitem-insel Support Funds (SISF)*
Deadline: 15 September 2020 [Link](#)
- *Forschungsstipendium der Schweizerischen Hirnliga*
Deadline: 30 September 2020 [Link](#)
- *CTU-Research Grants*
Deadline: 30 September 2020 [Link](#) Internal Deadline Research Board: 6 September 2020
- *J.&G.Gossweiler Foundation: Neurology Research Grant 2020*
Deadline: 30 September 2020 [Link](#)
- *Novartis Foundation for Biomedical Research*
Deadline: 1 October 2020 [Link](#)
- *Foundation for Laboratory Medicine: Scholarships for Biomedical Studies*
Deadline: 1 October 2020 [Link](#)
- *SNF: Project Funding*
Deadline: 1 October 2020 [Link](#)
- *UniBE: Promotion Fund*
Deadline: 13 October 2020 [Link](#)
- *Ypsomed Innovation Award*
Deadline: 16 October 2020 [Link](#)
- *EAN Clinical Fellowship Programme 2021*
Deadline: 31 October 2020 [Link](#)
- *SNF: Ambizione*
Deadline: 1 November 2020 [Link](#)
- *SNF: PRIMA*
Deadline: 1 November 2020 [Link](#)
- *Bangerter-Rhyner Foundation: Young Talents in Clinical Research*
Deadline: 30 November 2020 [Link](#)
- *ILAE COVID-19 and Epilepsy Research Award*
Deadline: 15 December 2020 [Link](#)
- *Swiss League Against Epilepsy: Research Recognition Award*
Deadline: 31 December 2020 [Link](#)
- *Swiss League Against Epilepsy: Alfred Hauptmann Award*
Deadline: 31 December 2020 [Link](#)

- **MICHAEL Foundation: MICHAEL Prize**
Deadline: 31 December 2020 [Link](#)

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Important Dates

- **24. Berner Schlaf-Wach-Epilepsie-Tag: BENESCO-trifakultäres Jahresmeeting IRC und ZEN-Symposium**, 17 September 2020; this event is being held as *live-stream SWEBINAR*. [program](#) and [registration](#)
- **SNS Academy of Young Neurologists**, 22 – 24 October 2020, University Hospital Zurich. [program](#) and [registration](#)
- **CNB-trifakultäres Jahresmeeting**, 23 October 2020, 08:00 – 18:00; Auditorium Ettore Rossi, Inselspital.
- **The Day of BioMedical Research 2020**, 4 November 2020; Auditorium Ettore Rossi, Inselspital. [program](#)
- **DGN-Congress**, 4 – 7 November 2020; *virtual congress*. [Link](#) and [registration](#)
- **ESO-WSO Virtual Congress**, 7 – 9 November 2020. [program](#) and [registration](#).
Deadline for Abstract submission: 22 September 2020 ([abstract submission](#))
- **SNG Annual Meeting**, 19 – 20 November 2020, congress Centre Kursaal Interlaken. [program](#) and [registration](#)

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Support

1) Topic of the Month: Study Management

a) Clinical Trial Unit (CTU)

CTU Bern is an independent institution of the University of Bern. It is the Clinical Trials Unit of the Faculty of Medicine of the University of Bern and the Inselspital, Bern University Hospital.

CTU Bern supports and collaborates in clinical studies primarily initiated by investigators of the University of Bern and collaborating institutions. The Services offered by CTU Bern consist of:

- Consulting Services, i.e. statistical consulting and regulatory affairs
- Study Registration
- Data Management
- Quality Assurance and Management
- Clinical Investigation
- Trainings and Courses

[Link](#)

b) Direktion Lehre und Forschung: Study Management

The «Direktion Lehre und Forschung, DLF» of Insel Gruppe is the coordination point for the study management at Inselspital. The DLF offers administrative support to the research teams of the clinics of Insel Gruppe. New studies need to be confirmed by DLF.

On the website of the study management of DLF you will find all necessary information regarding your study, such as announcement of new studies, questions on insurances, pricing, study contracts, SOPs, etc.

[Link](#)

c) Neuro Clinical Trial Unit (NCTU)

In 2014 the Neuro Clinical Trial Unit (NCTU) was introduced in order to promote and further professionalize clinical research within the Neuro Centre and to provide support and advice in the planning and realization of clinical research projects. Six years on, the NCTU under the chair of Prof. Urs Fischer has a Clinical Research Manager, a Quality Manager, and five Clinical Research Coordinators (CRC).

The NCTU provides expertise and assistance regarding the scientific, regulatory, administrative and practical aspects of clinical research. We focus on flexibility and offer support at every stage of a clinical study including:

- Project development and feasibility evaluations
- Examination of regulatory and legal requirements
- Preparation of study budgets and applications for third-party funding
- Study relevant contracts and insurances
- Preparation and maintenance of study documents
- Submission of clinical trial applications for sites in Switzerland and abroad to Ethics Committees and competent National Authorities, registration of clinical studies in national and international study portals
- Safety reporting
- Trial site set-up and on-going trial management for trials sponsored by the Neuro Centre including oversight of monitoring activities
- Writing study reports and facilitation of publishing study results

[Link](#)

Other News

SNF: Career funding: the researcher's overall performance counts



The SNF has adopted the DORA recommendations in its career funding schemes and adapted some other criteria. This will make the selection process even fairer and more inclusive of researchers with diverse career paths.



How does one perform a fair assessment of somebody's research achievements? For a long time the most important criterion was: have researchers published their articles in frequently cited journals? But the citation rate – or journal impact factor – does not represent an accurate and fair gauge of a researcher's achievements. For this reason, the so-called

DORA declaration recommends a more inclusive approach. The SNF signed the declaration in 2014 and has since been implementing it step by step.

[Link](#)

DORA declaration

The DORA declaration (San Francisco Declaration on Research Assessment) recommends a more inclusive approach to evaluating research achievements. The declaration was published in 2012 by the American cell biology society in collaboration with journalists and publishing houses. So far, approximately 2000 scientific organizations and 16,000 researchers have signed the DORA declaration.

2) Training

Scientific Writing Courses

Scientific Writing Courses with Dr. Kali Tal are open to all students and postdocs in the health and natural sciences. Most of the courses are online-courses designed to address common problems faced by non-native speakers who write medical papers in English.

[Course Catalogue and Registration](#)

SNF's Data Management Plan Writing Labs

Learn about the SNF's requirements on Open Data, data management and planning, and get advice and help with your own DMP. This semester's Writing Labs start on August 28.

[Course Info and Registration](#)

Complying with SNF Open Access and Open Data requirements

All research projects funded by the SNF are obliged to publish their results in Open Access and to share their data (unless ethical or legal restrictions apply). This autumn training courses are offered to support you with your compliance of these requirements. Starting in late October, these trainings will be held online due to the pandemic situation.

[Course Info and Registration](#)



CTU Trainings:

Clinical Investigators I: Basic GCP & clinical research training

This is a course split in two parts. The first part consists of self-learning and home-based exercises. For the second part, participants will attend the lectures and workshops. The course is designed to introduce basic concepts of patient-oriented clinical research to health care professionals involved in the recruitment of study participants.

- **Tuesday, 13 October 2020;** 1 full day: 8:15-17:30
Venue: ISPM; Mittelstrasse 43, 3012 Bern
Date for voluntary exam: 20 October 2020, 14:00 - 15:30 (to get 1.0 ECTS)

[Link and Registration](#)

Clinical Investigators II: Advanced GCP & clinical research training

This is a course which aims at providing especially sponsor-investigators and principal investigators with the knowledge to set-up their own project.

- **Tuesday, 8 +15 September 2020;** 2 half days: 8:30-12:15 (on 8 September) and 13:00-17:00 (on 15 September)
Venue: ISPM; Mittelstrasse 43, 3012 Bern
Date for voluntary exam: 22 September 2020, 14:00 - 15:30 (to get 0.5 ECTS)
- **Tuesday, 17 + 24 November 2020,** 2 half days: 8:30-12:15 (on 17 November) and 13:00-17:00 (on 24 November)
Venue: ISPM; Mittelstrasse 43, 3012 Bern
Date for voluntary exam: 1 December 2020, 14:00 - 15:30 (to get 0.5 ECTS)

[Link and Registration](#)

REDCap Database Implementation

The course will give an introduction to the Clinical Data Management System REDCap and is designed for persons who plan to set up their own study in REDCap. After the course researchers will be able to set up their own database in REDCap. Target audience: Clinical Researchers, Study Nurses and all persons who would like to set up their own study in REDCap.



Next Training Dates

- Thu, 03. SEP 2020, 15.00-17.00, Online – Deutsch
- Thu, 01. OCT 2020, 15.00-17.00, Online – English
- Thu, 05. NOV 2020, 15.00-17.00, Online – Deutsch
- Thu, 03. DEC 2020, 15.00-17.00, Online – English

Until further notice, all REDCap courses will be offered online. The course participants will receive a personal e-mail with specific instructions on how to login to the digital class room before the course is held.

[Link and Registration](#)

The Clinical Study Protocol Basics

This half-day course is a very condensed version of the former *Writing a clinical trial protocol* course. The importance of the protocol as the central document for a study will be discussed and essential elements for the most important chapters will be presented. Connections between chapters and elements will be highlighted with a special focus on the importance of consistency within the document. In a small group work we will critically appraise and discuss a real protocol of a randomized-controlled trial.

Target Audience

- Principal & Sponsor-Investigators
- Study coordinators/project managers

Next Training Dates 2020

- Friday, 4 September 2020, 13:00-17:00

Costs

Internal participants: CHF 30.00 (staff of Inselspital and the University of Bern)
External participants: CHF 250.00

Venue

CTU Bern, Mittelstrasse 43, 3012 Bern, room 216

[Link and Registration](#)

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Gender Equality and Diversity

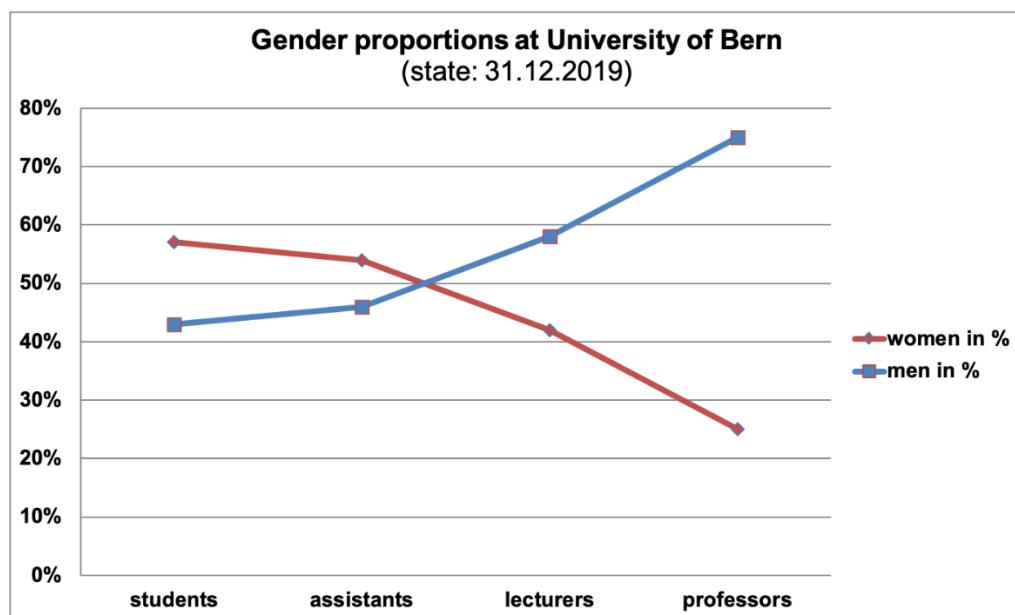
If you come across interesting news and/ or would like to read about a specific topic related to gender equality and diversity, please let us know (chantal.kottler@insel.ch).

University of Bern: Facts and Figures on Gender Distribution

At the University of Bern, there are two perceptible phenomena regarding gender distribution.

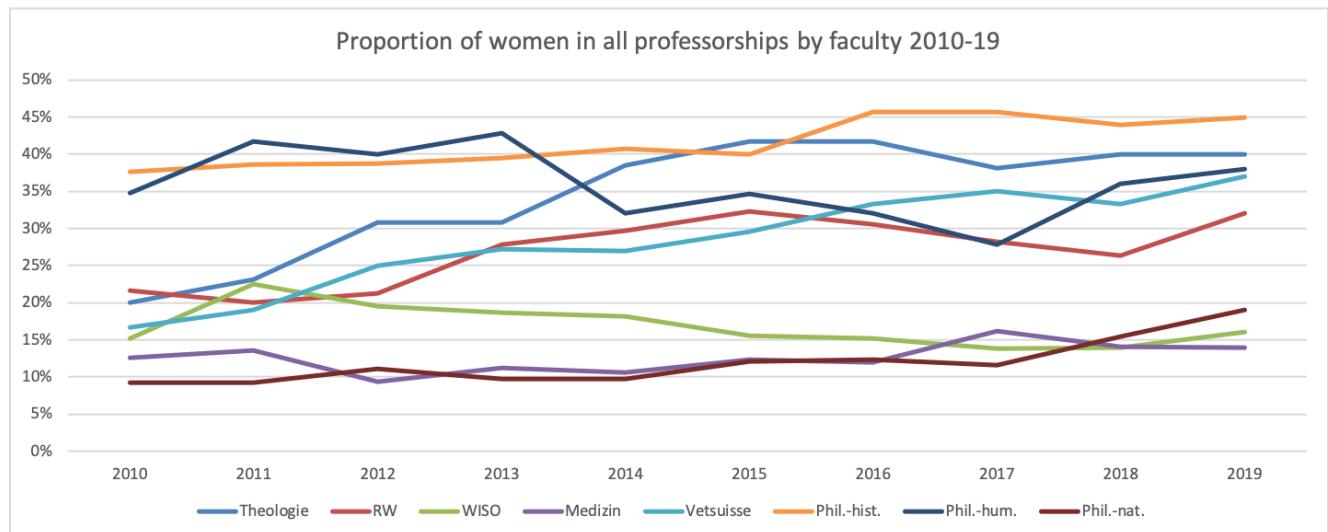
a) Vertical segregation

More than half of all students at the University of Bern are female. But that number decreases the further up the scale with women not being represented accordingly at higher academic levels. The higher the academic level, the smaller the proportion of women. This effect is called vertical segregation.



Source: Website of the University of Bern ([Link](#))

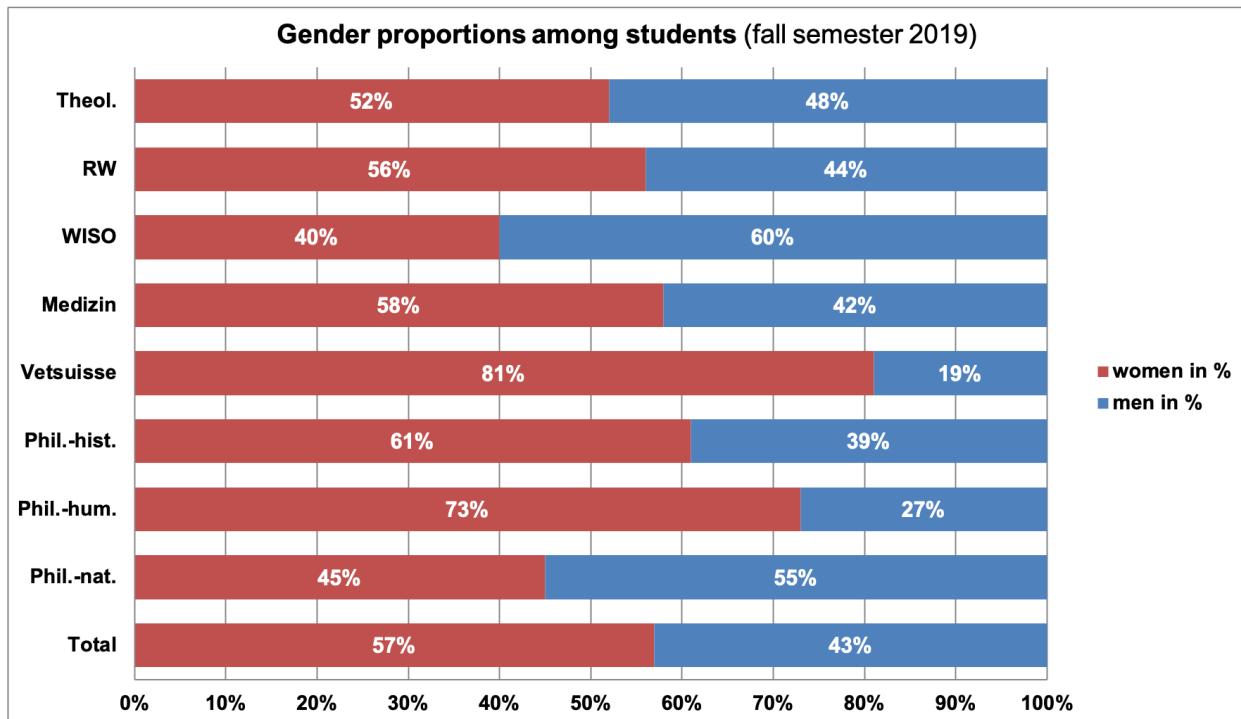
The comparison between faculties at professorship level shows quite striking differences.



Source: Website of the University of Bern ([Link](#))

b) Horizontal segregation

The effect of horizontal segregation shows how the choice of discipline is dependent on gender. To sum it up: At the University of Bern, women become vets, men tend to become computer scientists.



Source: Website of the University of Bern ([Link](#))

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Recent Publications

Stroke

- 1) Altersberger VL, (...), **Heldner MR** (...), **Arnold M**, et al. *Prior Dual Antiplatelet Therapy and Thrombolysis in Acute Stroke*. Ann Neurol. 2020 Jul 19.
[Find article online](#)
[Link to PDF](#)
- 2) **Heldner MR**, Zuurbier SM, Li B, **Von Martial R**, Meijers JCM, **Zimmermann R**, **Volbers B**, **Jung S**, El-Koussy M, **Fischer U**, Kohler HP, Schroeder V, Coutinho JM, **Arnold M**. *Prediction of Cerebral Venous Thrombosis with a new clinical score and D-dimer levels*. Neurology. 2020 Jun 23;10.1212/WNL.00000000000009998.
[Find article online](#)
[Link to PDF](#)
- 3) **Heldner MR**, **Jung S**. *Hirnschlag: Akutbehandlung und Sekundärprophylaxe*. Praxis-Depesche. 7-8/2020:65-66.
[Link to PDF](#)
- 4) **Kielkopf M**, **Meinel T**, Kaesmacher J, **Fischer U**, **Arnold M**, **Heldner M**, **Seiffge D**, Mordasini P, Dobrocky T, Piechowiak E, Gralla J, **Jung S**. *Temporal Trends and Risk Factors for Delayed Hospital Admission in Suspected Stroke Patients*. J Clin Med. 2020 Jul 25;9(8):E2376.
[Find article online](#)
[Link to PDF](#)
- 5) **Krasteva MP**, **Diamantaras AA**, **Siller T**, Mordasini P, **Heldner MR**. *Symptomatic carotid web in a female patient*. SAGE Open Med Case Rep. 2020 Jul 10;8:2050313X20940540.
[Find article online](#)
[Link to PDF](#)
- 6) Lindgren E, (...) **Heldner MR**, (...) **Arnold M**, et al. *Acute symptomatic seizures in cerebral venous thrombosis*. Neurology. 2020 Aug 5;10.1212/WNL.00000000000010577.
[Find article online](#)
[Link to PDF](#)
- 7) **Meinel TR**, Kaesmacher J, Roten L, **Fischer U**. *Covert Brain Infarction: Towards Precision Medicine in Research, Diagnosis, and Therapy for a Silent Pandemic*. Stroke. 2020 Aug;51(8):2597-2606.
[Find article online](#)
[Link to PDF](#)
- 8) **Padlina G**, **Bellwald S**, **Maurer A**, **Heldner MR**. *Secondary Cerebrovascular Prevention in Light of the COVID-19 Pandemic*. Curr Treat Options Neurol. 22(28), (2020).
[Find article online](#)
[Link to PDF](#)

- 9) Sánchez van Kammen M, (...) **Heldner MR, Arnold M**, et al. *Late seizures in cerebral venous thrombosis*. Neurology. 2020 Aug 5;10.1212/WNL.00000000000010576.
[Find article online](#)
[Link to PDF](#)
- 10) **Scutelnic A**, Mordasini P, Bervini D, El-Koussy M, **Heldner MR**. *Management of Symptomatic Intracranial Atherosclerotic Stenosis*. Curr Treat Options Neurol. 22(21), (2020).
[Find article online](#)
[Link to PDF](#)
- 11) **Seiffge DJ, Goedlin M**. *Art of Anticoagulation After Recent Ischemic Stroke*. Stroke. 2020 Aug 6;STROKEAHA120030997.
[Find article online](#)
[Link to PDF](#)
- 12) **Siepen BM**, Grubwinkler S, Wagner A, Gruber C, Dickopf A, Linker RA, Schlachetzki F, Baldařanov D. *Neuromonitoring Using Neurosonography and Pupillometry in A Weaning and Early Neurorehabilitation Unit*. J Neuroimaging. 2020 Jun 27.
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[Link to PDF](#)
- 13) Traenka C, Gensicke H, Schaedelin S, Luft A, **Arnold M**, Michel P, Kägi G, Kahles T, Nolte CH, Kellert L, Rosenbaum S, Sztaizel R, Brehm A, Stippich C, Psychogios M, Lyrer P, Engelter ST, for the TREAT-CAD investigators. *Biomarkers and antithrombotic treatment in cervical artery dissection – Design of the TREAT-CAD randomised trial*. European Stroke J. 2020 Jun 29;0(0) I - II.
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- 14) **Umarova R**, Thomalla G. *Indirect connectome-based prediction of post-stroke deficits: prospects and limitations*. Brain. 2020 Jul 1;143(7):1966-1970.
[Find article online](#)
[Link to PDF](#)
- 15) Westphal LP, (...) **Heldner MR, Arnold M**, et al. *Association of prestroke metformin use, stroke severity, and thrombolysis outcome*. Neurology. 2020 Jul 28;95(4):e362-e373.
[Find article online](#)
[Link to PDF](#)

Movement Disorders

- 1) Béreau M, Kibleur A, Bouthour W, Tomkova Chaoui E, Maling N, Nguyen TAK, Momjian S, Vargas Gomez MI, Zacharia A, Bally JF, Fleury V, Tatou L, Burkhard PR, **Krack P**. *Modeling of Electric Fields in Individual Imaging Atlas for Capsular Threshold Prediction of Deep Brain Stimulation in Parkinson's Disease: A Pilot Study*. Front Neurol. 2020 Jul 2;11:532.
[Find article online](#)
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- 2) Bove F, Fraix V, Cavallieri F, Schmitt E, Lhommée E, Bichon A, Meoni S, Pélissier P, Kistner A, Chevrier E, Ardouin C, Limousin P, **Krack P**, Benabid AL, Chabardès S, Seigneuret E, Castrioto A, Moro E. *Dementia and subthalamic deep brain stimulation in Parkinson disease: A long-term overview.* Neurology. 2020 Jul 28;95(4):e384-e392.
[Find article online](#)
[Link to PDF](#)
- 3) Martinez-Martin P, Deuschi G, Tonder L, Schnitzler A, Houeto JL, Timmermann L, Rau J, Schade-Brittinger C, Stoker V, Vidailhet M, **Krack P**, EARLYSTIM Study Group. *Interpretation of health-related quality of life outcomes in Parkinson's disease from the EARLYSTIM Study.* PLoS One. 2020 Aug 21;15(8):e0237498.
[Find article online](#)
[Link to PDF](#)
- 4) Pelowski M, Spee BTM, Richard A, **Krack P**, Bloeam BR. *What Parkinson's Reveals About the Artistic Spark.* American Scientist. July – August 2020;108(4), p.240.
[Link to PDF](#)
- 5) Stoker V, **Krack P**, Tonder L, Barnett G, Durand-Zaleski I, Schnitzler A, Houeto J-L, Timmermann L, Rau J, Schade-Brittinger C, Vidailhet M, Deuschi G, EARLYSTIM Study Group. *Deep Brain Stimulation Impact on Social and Occupational Functioning in Parkinson's Disease with Early Motor Complications.* Mov Disorders Clinical Practice. 2020;7(6):672 -680.
[Find article online](#)
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- 6) Wiest C, **Tinkhauser G**, Pogosyan A, Bange M, Muthuraman M, Groppa S, Baig F, Mostofi A, Pereira EA, Tan H, Brown P, Torrecillas F. *Local field potential activity dynamics in response to deep brain stimulation of the subthalamic nucleus in Parkinson's disease.* Neurobiol Dis. 2020 Sep;143:105019.
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- 7) Yeh C-H, Al-Fatly B, Kühn AA, Meidahl AC, **Tinkhauser G**, Tan H, Brown P. *Waveform changes with the evolution of beta bursts in the human subthalamic nucleus.* Clin Neurophysiol. 2020 Jun 29;131(9):2086-2099.
[Find article online](#)
[Link to PDF](#)

SWEZ

- 1) Dietmann A, Horn MP, Schinkelshoek M, Fronczek R, Salmen A, Bargiota P, Lammers GJ, Khatami R, Bassetti CLA. *Conventional autoantibodies against brain antigens are not routinely detectable in serum and CSF of narcolepsy type 1 and 2 patients.* Sleep. 2020 Aug 7.
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