

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

January / February 2022

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Just Asking...



Marc Grau Leguia, PhD

What are your main research interest?

My research focuses on the analysis and modeling of the seizure occurrences from subjects with focal epilepsy. Being a physicist by training, I am also very interested in the study of dynamical and complex systems. As a matter of fact, using such models has been demonstrated to be key to understanding more about how the ictal transition occurs.

Here in Bern, as a postdoc in the e-lab, I am studying the different timescales in which seizures occur for patients of focal epilepsy. I had the opportunity to analyze a cohort consisting of N=256 of subjects with refractory focal epilepsy implanted with a neurostimulation device (NeuroPace Inc) for a median of more than 9 years. Using this dataset, we have shown that seizure cycles fluctuate at a very different timescales (from hours to years). Another important result we found analyzing this cohort is that circadian and multidien (variation between 4-45 days) seizure cycles are highly prevalent and equally strong. Interestingly, these multidien cycles do not depend on external cues such as the working week, the calendar month or the lunar cycle. Using the results we had on that the seizure cycles vary from 4-45 days, we are developing statistical models that forecast the seizure risk of a subject in a 24-hour horizon. More specifically, we are currently using statistical and machine learning models to be able to forecast seizures to subjects previously unseen from the algorithms. Hence, making a general model for seizure prediction to focal epilepsy subjects.

What is your motivation to do research?

One of the main drives that motivates throughout my research is plain curiosity and the possibility that the things that I study may be able to make an impact on society. Furthermore, I like to bridge the gap between different scientific communities. I am myself coming from a physicist community and being able to speak to experts in biology and medicine on a daily basis is a quite enriching endeavor that motivates me to learn new things.

Marc Grau Leguia is a Wyss Center fellow and a postdoctoral researcher at the Sleep-Wake-Epilepsy Center, Center for Experimental Neurology, NeuroTec, Department of Neurology, Inselspital Bern, University Hospital, University of Bern, Switzerland.

Contact: marc.grauleguia@insel.ch

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Congratulations

1) Awarded Grants (*in chronological order*)

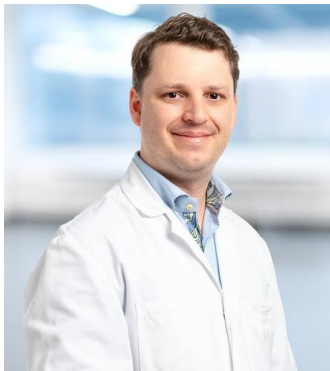


Dr. med. David Schreier

Funding Institution: EAN Clinical Fellowship 2022 ([Link](#))

Host Institution: Sleep-Wake Center chaired by Prof. Gert Jan Lammers, Leiden University (NL)

Awarded Grant: **EUR 425 per week** (11 weeks)



PD Dr. med. David J. Seiffge

Funding Institution: Portola/Alexion ([Link](#))

Title: Swiss ICH imaging cohort. Influence of different types of oral anticoagulants on baseline haematoma volume, secondary haematoma expansion and outcome of intracerebral haemorrhage

Awarded Grant: **CHF 75'000**



Dr. med. Jan Rosner

Funding Institution: International Foundation for Research in Paraplegia ([Link](#))

Title: Novel Biomarkers and Peripheral Therapeutic Targets for Neuropathic Pain after SCI

Host Institution: Danish Pain Research Center, Aarhus University, Denmark (Prof. Finnerup)

Awarded Grant: **CHF 80'000** (Post-Doc Fellowship, 12 months)



Dr. med. Helly Hammer



PD Dr.med. Robert Hoepner

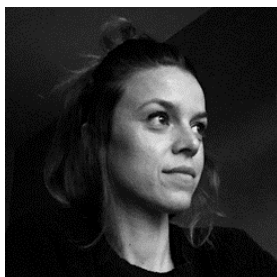
Funding Institution: Biogen ([Link](#))

Title: Prediction of non-motor symptoms in fully ambulatory MS patients using vocal biomarkers

Cooperating Partner: AudEERING ([Link](#))

Awarded Grant: **Total CHF 95'000;** share Hammer/Hoepner: **CHF 48'500**

(2) Prizes



Laura Facchin, MSc.

First Author



Prof. Claudio L. Bassetti

Co-Author



Prof. Antoine Adamantidis

Last Author

Have received the **Forschungspreis der Schweizerischen Hirnliga 2022** ([Link](#)) for their publication:

Slow Waves Promote Sleep-Dependent Plasticity and Functional Recovery after Stroke ([doi:10.1523/JNEUROSCI.0373-20.2020](https://doi.org/10.1523/JNEUROSCI.0373-20.2020))

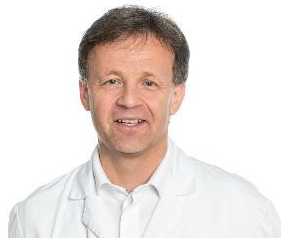


SCHWEIZERISCHE HIRNLIGA
LIGUE SUISSE POUR LE CERVEAU
LEGA SVIZZERA PER IL CERVELLO



PD Dr. med. Mirjam Heldner

Co-Author



Prof. Dr. med. Marcel Arnold

Co-Author

Have received the **Paul Dudley White International Scholar Award** awarded by the **American Heart Association** for their publication:

Age-stratified Risk of Cerebral Venous Sinus Thrombosis after SARS-CoV-2 Vaccination
([doi:10.1212/WNL.00000000000013148](https://doi.org/10.1212/WNL.00000000000013148))

The American Heart Association

Presents this

**Paul Dudley White
International Scholar Award**

*To Recognize the Authors with the Highest Ranked Abstract from
the Netherlands at the International Stroke Conference 2022*

*Katarzyna Krzywicka, Anita van de Munckhof, Mayte Sanchez van Kammen,
Mirjam R. Heldner, Katarina Jood, Erik Lindgren, Turgut Tatlisumak, Jukka Putaala,
Johanna A. Kremer Hovinga, Saskia Middeldorp, Marcel M. Levi, Charlotte Cordonnier, Marcel
Arnold, , Aeiko H. Zwinderman, José M. Ferro, Jonathan M. Coutinho, Diana Aguiar de Sousa*

*Louise McCullough, MD, PhD, FAHA
Chair, ISC Program Committee*

**American
Heart
Association**

*Tudor G. Stew, MD, FAHA
Vice-Chair, ISC Program Committee*



Dr. med. Jan Rosner

Has received the **Eberhard Ketz Prize**
awarded by the **Pro Humanis –
Gönnervereinigung Neurorehabilitation
Zihlschlacht** ([Link](#)) for «*besondere wissenschaftliche Leistungen
im Bereich der Neurorehabilitation und neurologischen
Schmerzforschung*»

pro humanis
Gönnervereinigung
Neurorehabilitation
Zihlschlacht

(3) Appointments



PD Dr. med. Anke Salmen

has been appointed a member of the **Editorial Board** of [Frontiers in Neurology - Multiple Sclerosis and Neuroimmunology](#).

(4) Highlights in Teaching



Prof. Dr. med. Simon Jung



Prof. Dr. med. Urs Fischer

Start of the MAS in Stroke Medicine

The Faculty of Medicine of the University of Bern and the Stroke Center at the University Hospital Bern developed the European Stroke Master programme in close collaboration with the European Stroke Organisation ([ESO](#)) to train the next generation of clinicians and researchers in stroke care throughout Europe.

[Media Release Insel and UniBE](#)

[Link to the MAS](#)

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Call for Grants and Prizes

Johanna Dürmüller-Bol DBMR Research Award 2022

Focus of the grant: Research Award; Basic and clinical research

Eligible for: MD, PhD, MD-PhD before habilitation

- The Johanna Dürmüller-Bol DBMR Research Award supports a young researcher of the Faculty of Medicine to lead a promising research project and gather data for pursuing an application for a peer reviewed, competitive grant.
- **Who can apply:** MD, PhD, or MD-PhD researchers of the Faculty of Medicine, who hold the title of Postdoctoral Fellow, Instructor or Research Associate, or who are under the direct supervision of a mentor. Lab Group Leaders and researchers who have received the habilitation are not eligible.
- The award is of CHF 30'000; The winner will be invited to present the project at the **Day of Biomedical Research, which is planned for July 6, 2022.**
- **Submission Deadline: 14 March 2022** [Link](#)

SNF Project Funding



Focus of the grant: Project Funding; Basic and Clinical Research

Eligible for: Young (Postdoc) and Advanced Researchers

- 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 April 2022** [Link](#)

Baasch-Medicus Foundation Research Grant

Focus of the grant: *Protected Research Time for Young Researchers/ Clinicians*

Eligible for: *Clinicians/ MD with or shortly before receiving FMH title*

- The Baasch-Medicus Foundation aims to acknowledge and support outstanding achievements in neurology and funds innovative research in the field.
- The grant aims to complement a partial clinical employment on a fifty-fifty bases: 50% Baasch-Medicus Foundation and 50% clinical engagement at the home institution.
- Emphasis on research in clinical neurology. The applicant is certified specialist in neurology or is currently receiving his clinical specialty training in neurology, and is pursuing an academic career
- **Submission Deadline: 30 June 2022** [Link](#)

Other Open Calls for Proposals

- *Johanna Dürmüller-Bol DBMR Research Award 2022*
Deadline: 14 March 2022 [Link](#)
- *Internal Research Grant: Diversity and Excellence in Basic and Translational Research 2022*
Deadline: 15 March 2022 [Link](#)
- *Internal Research Grant: Diversity and Excellence in Clinical Research 2022*
Deadline: 15 March 2022 [Link](#)
- *Internal Education Grant: Stipendium für professionelle Lehre in der klinischen Neurologie*
Deadline: 15 March 2022 [Link](#)
- *Stern-Gattiker-Preis*
Deadline: 25 March 2022 [Link](#)
- *Theodor-Kocher-Preis*
Deadline: 31 March 2022 [Link](#)
- *SNF Project Funding*
Deadline: 1 April 2022 [Link](#)

- *FreeNovation 2022*
Deadline: 16 April 2022 [Link](#)
- *UniBE Promotion Fund*
Deadline: 21 April 2022 [Link](#)
- *SNF Research Equipment (R'Equip)*
Deadline: 2 May 2022 [Link](#)
- *UniBern Forschungsstiftung*
Deadline: 2 May 2022 [Link](#)
- *SNF Sinergia*
Deadline: 16 May 2022 [Link](#)
- *Insel Gruppe: Nachwuchsförderungsgrant*
Deadline: 31 May 2022 [Link](#) Internal Deadline Research Board: 15 May 2022
- *SNG Scholarship 2022*
Deadline: 31 May 2022 [Link](#)
- *SNG Prize 2022*
Deadline: 31 May 2022 [Link](#)
- *Baasch-Medicus-Foundation*
Deadline: 30 June 2022 [Link](#)
- *UniBern ID Grants*
Deadline: 28 August 2022 [Link](#)

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Important Dates

- **3rd Sleep Science Winter School**, 3 – 4 March 2022, Virtual Event [Link](#)
- **EAN Annual Congress**, 25 - 28 June 2022, Vienna, Austria [Link](#)
- **SNG Academy 2022**, 30 June – 2 July 2022, Inselspital Bern [Link](#)
- **ICTALS 2022, the tipping point**, 4 – 8 July 2022, University of Bern, Registration closes on 30 April 2022 [Link](#)

For further events of the Department, please check our [website](#).

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Support



1) New scheme: SNSF Consolidator Grants 2022

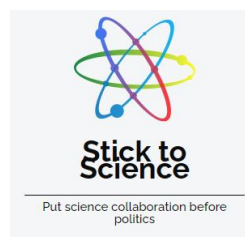
On behalf of the Swiss government, the Swiss National Science Foundation (SNSF) is launching the *SNSF Consolidator Grants 2022* call on *1 March 2022*. Recipients of an SNSF Consolidator Grant will be able to conduct their research in Switzerland and consolidate their scientific independence. At the time of applying for an SNSF Consolidator Grant 2022, researchers must have a PhD or equivalent qualification awarded no less than 7 and no more than 12 years ago. In addition, they must have conducted independent research and made contributions to science without the involvement of their thesis supervisor.

Switzerland's association to Horizon Europe remains the stated objective of the Federal Council. Despite the various measures launched by the SNSF on behalf of the Swiss government, the SNSF is hoping for Switzerland's rapid and full association to the Horizon Europe program.

[Link](#)

2) Stick to Science: An online signature campaign for an open and inclusive European Research Area

- The *Stick to Science* initiative has been set up by the European research community calling for open and barrier-free collaboration among Europe's research and innovation (R&I) actors, who share the same values.
- This initiative is an active response to the delayed progression of association agreements with Switzerland and the United Kingdom, held up by political barriers that have nothing to do with science.
- The campaign was set in motion and funded by five co-initiator institutions: ETH Zurich, EPF Lausanne, ETH Board, Universities UK, the umbrella organization of 140 UK universities, and the Wellcome Trust.
- Visit the [dedicated website](#) to show your support.



3) Reminder: Open Access Publication Fund at the University of Bern



- The OA fund of the University of Bern has been supporting its researchers' OA gold publications since 2020. As of 2022 and until 2024, the University of Bern participates in the national OA Fond initiative of swissuniversities which means that the overall volume of the fund has increased.
- *What will be funded?* Article Processing Charges (APCs) for peer-reviewed journal articles in a pure open access gold journal. Maximum amount of APC is 2'500 CHF
- *Who is eligible to apply?* Teaching and/or research staff employed by the University of Bern; lecturers (DozentInnen), assistants (AssistentInnen) and doctoral candidates employed by the University of Bern, as well as employees of the Insel-Spital provided they have a university campus account (doctoral candidates and higher)
- [Link](#)

4) Trainings and Workshop

CTU Trainings:

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 2022: [Link and Registration](#)

Introduction to STATA

In this workshop we will learn how to use Stata step-by-step: the looks, basics, data import/export, labelling/formatting, data manipulation, good practices, help, and essential statistics. The course is open for clinical researchers of the Inselspital Bern and the staff of the Medical Faculty of the University of Bern. It's not available for external participants.



Students need to attend on two half-days:

- Tuesday, **8 + 15 March 2022**, 13:00 - 17:00
- Cost: CHF 30.- for staff of the Inselspital, Bern University hospital and the University of Bern
- [Link and Registration](#)

For other CTU Trainings and Courses, check the CTU website [here](#).

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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).

COMET Career Program

The University of Bern's career program is part of the strategy for 2021 of the University of Bern. The career program COMET will support female researchers in successfully pursuing their academic careers; by means of an individually customized program the participants enhance their skills, know-how and motivation.



The next round of COMET will start in spring 2022. Each year, there are 20 places available which are allotted competitively. Coaching, mentoring and trainings can be held in German and/or English, according to the participants' needs.

Deadline for Applications: 15 March 2022

[Link](#)

Podcast “Geteilte Führung in der Medizin – ein Zukunftsmodell?”



The podcast discusses the possibility of shared or part-time executive positions in medicine, especially in university hospitals. Joining the discussion are representatives from the university hospitals of Bern and Zurich, as well as from the Offices of Gender Equality from the Universities of Bern and Zurich.

[Link](#)

Course Program 2022 Office of Gender Equality

The Office for Gender Equality offers courses as an addition to the continuing education opportunities of the university and the canton. Some courses are aimed at women, others are open to all genders. [Link](#)

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Recent Publications

Stroke

- 1) Epstein A, Schilter M, **Vynckier J**, Kaesmacher K, Mujanovic A, **Scutelnic A**, **Beyeler M**, Belachew NF, Grunder L, **Arnold M**, **Seiffge DJ**, **Jung S**, **Fischer U**, **Meinel TR**. Chronic Covert Brain Infarctions and White Matter Hyperintensities in Patients With Stroke, Transient Ischemic Attack, and Stroke Mimic. *J Am Heart Assoc.* 2022 Jan 19;e024191. [doi:10.1161/JAHA.121.024191](https://doi.org/10.1161/JAHA.121.024191).
- 2) Filioglo A, (...) **Heldner MR**, (...) **Arnold M**, et al. Outcomes after reperfusion therapies in patients with ACA stroke: A multicenter cohort study from the EVATRISP collaboration. *J Neurol Sci.* 2021 Dec 11;432:120081. [doi:10.1016/j.jns.2021.120081](https://doi.org/10.1016/j.jns.2021.120081).
- 3) Krzywicka K, van de Munckhof A, Sánchez van Kammen M, **Heldner MR**, (...) **Arnold M**, et al. Age-Stratified Risk of Cerebral Venous Sinus Thrombosis After SARS-CoV-2 Vaccination. *Neurology.* 2022 Feb 15;98(7):e759-e768. [doi:10.1212/WNL.00000000000013148](https://doi.org/10.1212/WNL.00000000000013148).
- 4) Kurmann CC, (...) **Beyeler M**, **Vynckier J**, **Seiffge D**, **Meinel TR**, Mordasini P, **Arnold M**, **Fischer U**, Gralla J, Kaesmacher J. Heterogeneity of the Relative Benefits of TICI 2c/3 over TICI 2b50/2b67: Are there Patients who are less Likely to Benefit? *Clin Neuroradiol.* 2022 Jan 6. [doi:10.1007/s00062-021-01131-0](https://doi.org/10.1007/s00062-021-01131-0).
- 5) Litmeier S, **Meinel TR**, (...) **Jung S**, et al. Coronary angiography in acute ischemic stroke patients: frequency and determinants of pathological findings in a multicenter cohort study. *J Neurol.* 2022 Feb 19. [doi:10.1007/s00415-022-11001-5](https://doi.org/10.1007/s00415-022-11001-5).
- 6) **Meinel TR**, Roten L, Wardlaw J, **Fischer U**. Letter by Meinel et al. regarding article, "Incidental findings on 3 T neuroimaging: cross-sectional observations from the population-based Rhineland Study". *Neuroradiology.* 2022 Jan 8. [doi:10.1007/s00234-022-02893-1](https://doi.org/10.1007/s00234-022-02893-1).
- 7) Schaub F, (...) **Seiffge D**, et al. Differences Between Anticoagulated Patients With Ischemic Stroke Versus Intracerebral Hemorrhage. *J Am Heart Assoc.* 2021 Dec 22;e023345. [doi:10.1161/JAHA.121.023345](https://doi.org/10.1161/JAHA.121.023345).
- 8) Schwarz G, (...) **Seiffge DJ**, et al. Magnetic resonance imaging-based scores of small vessel diseases: Associations with intracerebral haemorrhage location. *Int J Stroke.* 2022 Jan 7;17474930211062478. [doi:10.1177/17474930211062478](https://doi.org/10.1177/17474930211062478).
- 9) **Seiffge DJ**, et al. Intravenous Thrombolytic Therapy for Treatment of Acute Ischemic Stroke in Patients Taking Non-Vitamin K Antagonist Oral Anticoagulants. *JAMA.* 2022 Feb 10. [doi:10.1001/jama.2022.0068](https://doi.org/10.1001/jama.2022.0068).
- 10) Yaghi S, (...) **Heldner M**, **Scutelnic A**, **Seiffge D**, **Siepen B**, et al. Direct Oral Anticoagulants Versus Warfarin in the Treatment of Cerebral Venous Thrombosis (ACTION-CVT): A Multicenter International Study. *Stroke.* 2022 Feb 10;STROKEAHA121037541. [doi:10.1161/STROKEAHA.121.037541](https://doi.org/10.1161/STROKEAHA.121.037541).

Neuroimmunology

- 1) Benkert P, (...) **Salmen A**, et al. Serum neurofilament light chain for individual prognostication of disease activity in people with multiple sclerosis: a retrospective modelling and validation study. *Lancet Neurol* 2022; 21: 246–57. [doi:10.1016/S1474-4422\(22\)00009-6](https://doi.org/10.1016/S1474-4422(22)00009-6).
- 2) Fleischer V, (...) **Salmen A**, et al. Subcortical Volumes as Early Predictors of Fatigue in Multiple Sclerosis. *Ann Neurol*. 2022 Feb;91(2):192-202. [doi:10.1002/ana.26290](https://doi.org/10.1002/ana.26290).
- 3) **Hammer H, Kamber N, Friedli C, Diem L, Hoepner R, Chan A, Salmen A**. Primäre ZNS-Vaskulitis. *Rheuma Schweiz Fachzeitschrift*. 2022 (1): 46-54; [Link PDF](#).
- 4) **Kamm CP**, (...) **Chan A, Kamber N**, Vanbelling T. From Diagnosis to Satisfaction in Multiple Sclerosis: A Swiss Patient Survey Highlighting the Importance of the First Diagnostic Consultation. *Clin. Transl. Neurosci*. 2022, 6(1), 4; [doi:10.3390/ctn6010004](https://doi.org/10.3390/ctn6010004).
- 5) **Pistor M, Hammer H, Salmen A, Hoepner R, Friedli C**. Application of the "risk of ambulatory disability" (RoAD) score in a "real-world" single-center multiple sclerosis cohort. *CNS Neurosci Ther*. 2022 Jan 21. [doi:10.1111/cns.13806](https://doi.org/10.1111/cns.13806).
- 6) **Pistor M, Salmen A, Chan A, Hoepner R**. COVID-19 in a Neuroimmunological Outpatient Cohort: The Bernese Experience. *Clin. Transl. Neurosci*. 2022, 6(1), 6; [doi:10.3390/ctn6010006](https://doi.org/10.3390/ctn6010006).
- 7) **Remlinger J**, Madarasz A, Guse K, **Hoepner R, Bagnoud M, Meli I**, Feil M, Abegg M, Linington C, Shock A, Boroojerdi B, Kiessling P, Smith B, Enzmann V, **Chan A, Salmen A**. Antineonatal Fc Receptor Antibody Treatment Ameliorates MOG-IgG-Associated Experimental Autoimmune Encephalomyelitis. *Neurol Neuroimmunol Neuroinflamm*. 2022 Jan 13;9(2):e1134. [doi:10.1212/NXI.0000000000001134](https://doi.org/10.1212/NXI.0000000000001134).

SWEZ

- 1) Baillieux S, **Dekkers M, Brill AK, Schmidt MH**, Detante O, Pépin JL, Tamié R, **Bassetti CLA**. Sleep apnoea and ischaemic stroke: current knowledge and future directions *Lancet Neurol*. 2022 Jan;21(1):78-88. [doi:10.1016/S1474-4422\(21\)00321-5](https://doi.org/10.1016/S1474-4422(21)00321-5)
- 2) Chiffi G, (...) **Dietmann A, Bassetti CLA**, Leib SL. Sleep-Wake and Circadian Disorders after Tick-Borne Encephalitis. *Microorganisms* 2022, 10(2), 304; [doi:10.3390/microorganisms10020304](https://doi.org/10.3390/microorganisms10020304).
- 3) **Mathis J, Andres D**, Schmitt W, **Bassetti CL, Hess CW, Schreier DR**. The diagnostic value of sleep and vigilance tests in central disorders of hypersomnolence. *Sleep*. 2022 Jan 17;zsac017. [doi:10.1093/sleep/zsac017](https://doi.org/10.1093/sleep/zsac017).
- 4) Mignot E, (...) **Bassetti CLA**, et al. Safety and efficacy of daridorexant in patients with insomnia disorder: results from two multicentre, randomised, double-blind, placebo-controlled, phase 3 trials. *Lancet Neurol*. 2022 Feb;21(2):125-139. [doi:10.1016/S1474-4422\(21\)00436-1](https://doi.org/10.1016/S1474-4422(21)00436-1).

- 5) Riganello F, **Zubler F**, Haenggi M, De Lucia M. Heart rate complexity: An early prognostic marker of patient outcome after cardiac arrest. *Clin Neurophysiol.* 2021 Dec 10;134:27-33. [doi:10.1016/j.clinph.2021.10.019](https://doi.org/10.1016/j.clinph.2021.10.019).

Neuropsychology

- 1) Frischknecht E, **Stalder-Lüthy F**, **Hofer H**. Belastungen und Unterstützung für Angehörige von Menschen mit einer Hirnverletzung. *PiD - Psychotherapie im Dialog* 2021; 22: 70–74 [doi:10.1055/a-1215-2671](https://doi.org/10.1055/a-1215-2671)
- 2) **Heinemann, D**. Neuropsychologische Diagnostik: Von Tests bis zur Evaluation. *PiD - Psychotherapie im Dialog* 2021; 22(04): 45-50. [doi:10.1055/a-1215-2258](https://doi.org/10.1055/a-1215-2258)
- 3) Pöttgen J, Friede T, Lau S, Gold SM, Letsch C, Bender G, Flachenecker P, Heesen C, **Penner IK**. Managing neuropsychological impairment in multiple sclerosis - Controlled study on a standardized metacognitive intervention (MaTiMS). *Mult Scler Relat Disord.* 2022 Feb 13;59:103687. [doi:10.1016/j.msard.2022.103687](https://doi.org/10.1016/j.msard.2022.103687).

ZfPB

- 1) Nowacki A, (...) **Lachenmayer ML**, **Debove I**, et al. Probabilistic mapping reveals optimal stimulation site in essential tremor. *Ann Neurol.* 2022 Feb 12. [doi:10.1002/ana.26324](https://doi.org/10.1002/ana.26324).
- 2) Tödt I, (...) **Krack P**, et al. The Contribution of Subthalamic Nucleus Deep Brain Stimulation to the Improvement in Motor Functions and Quality of Life. *Mov Disord.* 2022 Feb 3. [doi:10.1002/mds.28952](https://doi.org/10.1002/mds.28952).
- 3) Wiest C, Torrecillos F, **Tinkhauser G**, et al. Finely-tuned gamma oscillations: Spectral characteristics and links to dyskinesia. *Exp Neurol.* 2022 Feb 7;113999. [doi: 10.1016/j.expneurol.2022.113999](https://doi.org/10.1016/j.expneurol.2022.113999)

Neurorehabilitation

- 1) Bonkhoff AK, (...) **Guggisberg AG**, et al. Recovery after stroke: the severely impaired are a distinct group. *J Neurol Neurosurg Psychiatry.* 2021 Dec 22;jnnp-2021-327211. [doi:10.1136/jnnp-2021-327211](https://doi.org/10.1136/jnnp-2021-327211).
- 2) Diana L, (...) **Eberhard-Moscicka AK**, **Müri RM**, Bolognini N. Conventional and HD-tDCS May (or May Not) Modulate Overt Attentional Orienting: An Integrated Spatio-Temporal Approach and Methodological Reflections. *Brain Sci.* 2022, 12(1), 71; [doi:10.3390/brainsci12010071](https://doi.org/10.3390/brainsci12010071).

Psychosomatic Medicine

- 1) **Aybek S, Perez DL.** Diagnosis and management of functional neurological disorder. *BMJ* 2022;376:o64. [doi:10.1136/bmj.o64](https://doi.org/10.1136/bmj.o64).

Neuromuscular Center

- 1) **Dietmann A, Colin-Benoit E, Tinkhauser G, Meinel MR, Scheidegger O.** Pearls & Oy-sters: Bilateral mononeuropathic neuralgic amyotrophy triggered by Bartonella henselae infection responsive to intravenous immunoglobulin. *Neurology*. 2022 Feb 10;10.1212/WNL.0000000000200014. [doi:10.1212/WNL.0000000000200014](https://doi.org/10.1212/WNL.0000000000200014).

NeuroTec

- 1) Gerber SM, (...) **Schindler KA, Nef T.** An Instrumented Apartment to Monitor Human Behavior: A Pilot Case Study in the NeuroTec Loft. *Sensors* 2022, 22(4), 1657; [doi:10.3390/s22041657](https://doi.org/10.3390/s22041657).

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Contact

For any comments on the newsletter as well as all research related questions, please contact:

Chantal Kottler
chantal.kottler@insel.ch
031 66 4 06 19