



# Curriculum Vitae

**Philippe RYVLIN, MD, PhD**

**Epilepsy** : SUDEP, surgery, Neuroimaging, Intracerebral EEG, AEDs, RCTs

**Neurotechnologies**: mHealth, biosensors, connected & wearable devices

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## **Current Academic Positions**

Professor of Neurology, Chair of the Departement of Clinical Neuroscience  
*University Hospital of Lausanne (CHUV-UNIL), Lausanne, Switzerland*

Affiliated Professor of multimodal epilepsy surgery evaluation  
*University of Copenhagen, Copenhagen, Denmark*

## **Education, degrees, and previous positions**

- 1981 to 1987 Medical school (Paris, France)
- 1988 to 1994 Residency program in Neurology (Lyon, France)
- 1989 Master in Statistics and Epidemiology (Lyon, France)
- 1990 to 1991 Epilepsy fellowships at Montreal Neurological Institute (Canada), University of California, Los Angeles (US), and Zurich University Hospital (Switzerland)
- 1993 Master in Genetic et Cytogenetic (Lyon, France)
- 1994 MD degree and graduation in Neurology (Lyon, France)
- 1997 PhD in Neurosciences (Lyon, France)
- 2000 Full professor of Neurology (Lyon, France)

## **Publications:**

- 366 pubmed referenced publications
- H-index (google scholar) = 83
- Sum of times cited (google scholar) = 24462

## **Main areas of scientific and clinical expertise:**

- Epilepsy surgery and pre-surgical evaluation (SEEG, PET, electroclinical correlations)
- Sudden unexpected death in epilepsy (pathophysiology and prevention)
- Antiepileptic drugs and clinical trials
- Wearable devices and seizure detection



# Detailed Curriculum Vitae

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**Epilepsy** : SUDEP, surgery, Neuroimaging, Intracerebral EEG, AEDs, RCTs

**Neurotechnologies**: mHealth, biosensors, connected & wearable devices

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## **Current Academic Positions**

**Professor of Neurology – since 27/08/2014**

Institution: University of Lausanne, Lausanne, Switzerland

**Affiliated Professor of multimodal epilepsy surgery evaluation – since 01/01/2015**

Institution: University of Copenhagen, Copenhagen, Denmark

## **Past Academic Positions**

**Professor of Neurology – from 01/09/2000 to 31/12/2014**

Institution: University Claude Bernard Lyon-1, Lyon, France

## **Management of Medical Departments**

- Centre Hospitalo-Universitaire Vaudois, Lausanne, Switzerland
  - **Chair of the Department of Clinical Neurosciences (DNC) since January 1<sup>st</sup> 2015**
  - **Chair of the Division of Neuropsychology and Neurorehabilitation 2021 - 2023**
- Hospices Civils de Lyon, Lyon, France
  - **Head of the Department of Functional Neurology and Epileptology 2013 - 2014**
  - **Coordinator of the Department of Pediatric Clinical Neurophysiology 2007 - 2010**

## **Management of Research Laboratories**

- **Founder and director of the laboratory of cortical excitability and arousal disorders, Neuroscience Research Center, Department of Clinical Neurosciences, CHUV, Lausanne, since 2016**
- **Founder and co-director of TIGER team (Translational and Integrative Group in Epilepsy Research, Lyon Neuroscience Research Centre, INSERM U1028, CNRS 5292), 2011 - 2014**
- **Coordinator of the CTRS-INSERM (Thematic Centre for Research and Healthcare) « Cognitive Development in Epilepsy », 2007 - 2010.**

## **Management of other organisations**

- **Founder and board member of Foundation NeuroTech (Lausanne) since 2017**
- **Co-founder and Director of IDEE (Institut Des EpilepsiEs, Lyon, France) 2015-2018**
- **President/founder of the European Epilepsy Monitoring units Association (EEMA) since 2011**
- **Co-chair of the Joint Task Force (JTF) of the International League Against Epilepsy (ILAE)**
- **Co-founder and board member of Foundation IDEE (Lyon, France) since 2007**

## **Influence**

### **Previous and current positions**

- Member of the global advocacy council of the ILAE (*International League Against Epilepsy*) since **2021**
- Member of the Scientific Committee of the European Academy of Neurology (EAN): since **2020**
- Chair of the Lancet Neurology commission in epilepsy since **2019**
- Chair of the ILAE Task Force on “Advocacy for Research”: 2017-2021
- Co-chair of the joint task force of the ILAE and International Bureau for Epilepsy (IBE): 2013-2021
- Member of the Epilepsy Management Panel of the EAN: 2015-2019
- Elected Member of the council of the French League Against Epilepsy (LFCE) and Vice-President in charge of international affairs: 2012-2016

- Coordinator of the LFCE/FFRE French Epilepsy Clinical Network: 2011-2012  
(*Ligue Française Contre l'Epilepsie, Fondation Française pour la Recherche sur l'Epilepsie*)
- Member of the INSERM Neuroscience Scientific Council (CSS1): 2011-2012
- Coordinator of the Collège de Neurologie des Hospices Civils de Lyon: 2011-2014
- Member of the Clinical Trials Task force of the ILAE: 2010 - 2013
- Member of the Joint « SUDEP » Task Force of the EFNS and AAN: 2009-2013  
(*European Federation of Neurological Societies and American Academy of Neurology*)
- Member of the pedagogic council of Medical University Lyon-Est : 2009-2014
- Member of the « Transient Loss of Consciousness » Task Force of the EFNS: 2008-2013  
(*European Federation of Neurological Societies*)
- Member of the Inter-Regional Delegation of Clinical Research: 2008 - 2011
- Member of the Classification task force of the ILAE in 2008
- Member of the Scientific Commission of CHS le Vinatier: 2007 - 2014
- Vice-President of the LFCE in charge of scientific affairs: 2007 - 2011
- Elected Member of the council of the French League Against Epilepsy (LFCE): 2005 - 2011
- Member of the Clinical Research Council of the Hospices Civils de Lyon (HCL) 1999 - 2011
- Elected Member of the scientific council of Lyon-1 University : 1999-2002
- President elected of the syndicat autonome des CCA de Lyon : 1998-1999
- Elected Member of the Commission Médical d'Etablissement (CME) des HCL: 1997 - 1999
- Elected Member of Lyon-Nord Medical University council : 1997 - 2000
- President/founder of the Bureau de Recherche des Assistants/Internes en Neurologie (BRAIN):1997
- Elected Member of the Comité Consultatif Médical of the Neurological Hospital (HCL) : 1995

#### **Editorial activity for peer-reviewed international journals**

- Member of the editorial board of Current Opinions in Neurology since **2019**
- Associate Editor of Epilepsia Open 2016 - 2023
- Co-founder of Epileptic Disorders and member of the editorial board from 1999 to 2013
- Member of the editorial board of Epilepsy Research and Treatment since 2010
- Member of the editorial board of Epilepsy Research: 2007-2011
- Member of the editorial board of Epilepsia 2007-2009
- Reviewer for *Lancet Neurology, Brain, Neurology, Epilepsia, Epilepsy Research, Seizure*
- Invited editor for:
  - \* Epilepsy Section: *Faculty of 1000, 2012*
  - \* Epilepsy Section: *Current Opinions in Neurology* 2005, 2006, 2014, 2015
  - \* Optimising therapy of seizures in specific situations : *Neurology* 2006
  - \* Modern Challenges of Drug Resistant epilepsy : *Epileptic Disorders* 2005
  - \* The Temporal Pole : *Epileptic Disorders* 2002

#### **Organization of national and international meetings**

- 2024 :- State of the art anatomo-clinical correlations of focal seizures (co-organizer, Paros, Greece)
  - 2<sup>nd</sup> International Conference on Artificial Intelligence in Epilepsy and Neurological Disorders (co-organiser, Salt Lake City)
  - 13th International SEEG training course (co-organiser, Venice)
  - 11th North-American SEEG training course (co-organiser, Sacacomie)
  - 5th Asian SEEG training course (co-organiser, Cely)
  - 4th International congress on mobile health devices and seizure detection in epilepsy (co-chair, Lausanne)
- 2023 :- 1<sup>st</sup> International Conference on Artificial Intelligence in Epilepsy and Neurological Disorders (co-organiser, Breckenridge)
  - 12th International SEEG training course (co-organiser, Venice)
  - 10th North-American SEEG training course (co-organiser, Sacacomie)
  - 4th Asian SEEG training course (co-organiser, Cely)

- 4th International congress on mobile health devices and seizure detection in epilepsy (co-chair, Lausanne)
- 2022 : - 4<sup>th</sup> international epilepsy colloquium (organizer, Lausanne)
  - 11th International SEEG training course (co-organiser, Venice)
  - 9th North-American SEEG training course (co-organiser, Miami)
  - 3rd Asian SEEG training course (co-organiser, Cely)
- 2021: - 3rd International congress on mobile health devices and seizure detection in epilepsy (co-chair, Copenhagen)
- 2019 : - 10th International SEEG training course (co-organiser, Venice)
  - 8th North-American SEEG training course (co-organiser, Miami)
  - 2nd International congress on mobile health devices and seizure detection in epilepsy (co-chair, Lausanne)
- 2018 : - 9th International SEEG training course (lesional epilepsies) (co-organiser, Venice)
  - 2nd Asian SEEG training course (co-organiser, Singapore)
- 2017 : - 8th International SEEG training course (insulo-perisylvian seizures) (co-organiser, Venice)
  - 1st Asian SEEG training course (co-organiser, Singapore)
  - 1st International congress on mobile health devices and seizure detection in epilepsy (co-organiser, Copenhagen)
  - 1st International Course on PET in epilepsy (co-organiser, Orsay, France)
  - 32rd International Epilepsy Congress (scientific organising committee, Barcelona)
- 2016 : - 7th International SEEG training course (Language Systems) (co-organiser, Venice)
  - 5th North-American SEEG training course (Hypermotor seizures) (co-organiser, Montreal)
- 2015 : - 6th International SEEG training course (Visual Systems) (co-organiser, Venice)
  - 4th North-American SEEG training course (posterior cortex epilepsy) (coorganiser, Montreal)
- 2014 : - 5th International SEEG training course (Motor Systems) (co-organiser, Venice)
  - 11th European Congress of Epillepsy (member of the scientific committee) (Stockholm)
  - 30th International Congress of Clinical Neurophysiology (Member of the International Teaching Program Committee, Berlin)
  - 3rd North-American SEEG training course (posterior cortex epilepsy) (coorganiser, Montreal)
- 2013 : - 4th International SEEG training course (MCD) (co-organiser, Lyon)
  - 2nd North-American SEEG training course (frontal lobe epilepsy) (co-organiser, Montreal)
  - Intra-cerebral investigations and treatment in neuropsychiatric disorders (organiser, Lyon)
- 2012 : - 1st North-American SEEG training course (temporal lobe epilepsy) (co-organiser, Montreal)
  - 5th Marburg-Cleveland-IDEE International Colloquium (co-organiser, Lyon)
  - 3rd International SEEG training course (posterior cortex epilepsy) (co-organiser, Lyon)
- 2011 : - 2nd International SEEG training course (frontal lobe epilepsy) (co-organiser, Lyon)
  - 6th Progress in Epileptic Disorders (clinical trials of anti-epileptic drugs) (co-organiser, Lyon)
  - 2<sup>nd</sup> European Forum addressing Challenges in Epilepsy Care (chair, Franckfurt)
- 2010 : - 1st International SEEG training course (tempooral lobe epilepsy) (co-organiser, Lyon)
- 2009 : - 2rd Marburg-Cleveland-IDEE International Colloquium (co-organiser, Lyon)
- 2008 : - Annual Meeting of the French League Against Epilepsy (Chair, Lyon)
  - 1st European Forum addressing Challenges in Epilepsy Care (Chair, Budapest)
  - 4th Progress in Epileptic Disorders (drug resistance) (co-organiser, Sitges)
- 2007: - 3rd Progress in Epileptic Disorders (newly diagnosed epilepsy) (co-organiser, Roma)
- 2006: - 2nd Progress in Epileptic Disorders (generalised epilepsies) (co-organiser, Roma)
- 2005: - International Epilepsy Congress (Chair of the Scientific Committee, Paris)
  - 1st Progress in Epileptic Disorders (cognitive dysfunction in epilepsy) (co-organiser, Roma)

**Supervision of PhD thesis since 2007**

- Maylis Touya Ongoing since 2023
- Florian Perrin Ongoing since 2023

- Marius Kloevgaard Soerensen                      PhD graduation in 2022
- Mani Saignavongs                                      PhD graduation in 2016
- Talal Almashaiki:                                      PhD graduation in 2013
- Sevan Kaloustian:                                      PhD graduation in 2009
- Amélie Lothe:    PhD graduation in 2009
- Geneviève Demarquay:                              PhD graduation in 2008
- Nicolas Costes    PhD graduation in 2007

**Patent: EPIDEO system patented in 2008** (Automatic video-recording system of epileptic seizures)

**European Research Grants**

- 2024: **THCS (Transforming Health and Care Systems) TeleEPI:** Integrated care pathway for people with epilepsy based on an unobstrusive AI-powered telemedical system
- 2023: **Horizon Europe EBRAINS 2.0:** Europe's Brain Research and Precision Medicine Infrastructure for Advancing Neuroscience, Personalized Healthcare, Research, Education, and Innovation
- 2022: **Horizon Europe RELIEVE:** First Closed-loop non-Invasive Seizure Prevention System
- 2022: **Horizon Europe eCREAM:** Enabling clinical research in emergency and acute care medicine through automated data extraction
- 2022: **Horizon Europe NEUROSENSE:** NEUROendocrine SENSor for Sudden Unexpected Death in Epilepsy (SUDEP) prediction and prevention
- 2021: **IMI EPND:** European Platform for Neurodegenerative diseases
- 2020: **IMI SOPHIA:** Stratification of obesity phenotype to optimize future therapy
- 2020: **Human Brain Project SGA3 – SC5** Human intracerebral EEG platform
- 2018: **Human Brain Project SGA2 – SP8** Medical Informatics Platform
- 2019: **H2020 DeepHealth:** Deep-Learning and HPC to Boost Biomedical Applications for Health.
- 2018: **H2020 RECIPE:** RELiable power and time-ConstraInts-aware Predictive management of heterogeneous Exascale systems
- 2016: **ERN EpiCARE:** A European Reference Network on rare and complex epilepsies- 2013: **E-PILEPSY** - A european pilot network of reference centres in refractory epilepsy and epilepsy surgery
- 2012: **ERA-NET Neuron:** Simultaneous fMRI/SEEG and MEG/SEEG

**Other Academic Research Grants obtained as principal investigator (PI) or co-PI since 2001**

- 2022; SPHN SNOW: Swiss Network of Wearables (500.000 CHF)
- 2020: Swiss National Fund – SINERGIA: PEDESITE - Personalized Detection of Epileptic Seizure in the Internet of Things (IoT) Era (2.800.000 CHF)
- 2018: Swiss National Fund: SEVERITY - Quantifying the severity of generalized tonic-clonic seizures (GTCS) with connected devices during video-EEG monitoring (700.000 CHF)
- 2017: Hassler Foundation: Predicting Episodic Disorders with Health Companions
- 2016: InnoCentive - The SUDEP Institute Challenge part 2: fMRI biomarkers of SUDEP
- 2015: InnoCentive - The SUDEP Institute Challenge part 1: fMRI biomarkers of SUDEP
- 2015: Swiss-Korean CTI grant: DOMOHYO
- 2013: PHRC: SAVE: Safety of antiepileptic drug withdrawal in long term video-EEG monitoring
- 2012: PHRC: Simultaneous fMRI/SEEG study of High frequency oscillations
- 2009: PHRC: REPO<sub>2</sub>MSE - National network for the study of risk factors and prevention of sudden unexpected death in epilepsy
- 2009: Translational INSERM-DHOS grant FLUOXETINE – Randomised controlled trial of fluoxetine versus placebo for the treatment of ictal/post-ictal hypoxemia
- 2009: PHRC: FLUOXETINE – Randomised controlled trial of fluoxetine versus placebo for the treatment of ictal/post-ictal hypoxemia
- 2008 : PICRI Ile de France: DYNAMAT – Dynamic cerebral Maturation in idiopathic and

- cryptogenic partial epilepsy in children
- 2008 : Hospices Civils de Lyon Transversal research action in MRI/fMRI
- 2007 : CTRS INSERM Cognitive Development in Epilepsy.
- 2007 : International League Against Epilepsy MORTEMUS - MORTality in Epilepsy Monitoring Unit Study.
- 2006 : PHRC: Genetic factors of comorbid depression in temporal lobe epilepsy
- 2004 : 6th Concours National d'aide à la création d'entreprises de technologies innovantes EPIDEO – Innovative system for rvideoecording of seizures
- 2004 : PHRC : PET study of 5HT<sub>1A</sub> receptors in olfactory-induced migraine
- 2003 : PHRC : PET study of 5HT<sub>1A</sub> receptors in drug resistant epilepsy
- 2002 : RNTS grant (Réseau National des Technologies pour la Santé). Multimodal advanced platform for image analysis in clinical setting (PLAMAIVIC).
- 2001 : PHRC : Odor intolerance syndrom in Neurology
- 2001 : BQR grant from University Lyon-1 : Plasticity of the serotonergic system in temporal lobe epilepsy
- 2001 : HCL grant : PET study of 5HT<sub>1A</sub> receptors in malformation of cortical development

### **Education**

- 1981 to 1987 Lariboisière - Saint Louis medical school (Paris, France) – graduation June 1987.
- 1988 Admitted on the residency program in Neurology : April 1988 (Lyon)
- 1989 Master in Statistics and Epidemiology : June 1989 (Lyon I University)
- 1990 to 1991 Epilepsy fellowships at Montreal Neurological Institute (Canada), University of California, Los Angeles (US), and Zurich University Hospital (Switzerland)
- 1993 Master in Genetic et Cytogenetic : June 1993 (Lyon I University)  
Graduated in Neurology : September 1993 (Lyon I University).  
Epilepsy Fellowship at the Epilepsy Centre of Rennes (France)
- 1994 M.D. degree and thesis : October 1994 (Lyon I University).
- 1994 to 1997 Assistant Chef de Clinique at Neurological Hospital, Lyon.  
Ph.D. degree in Neuroscience : October 1997 (Lyon I University)

### **PEER-REVIEWED PUBLICATIONS**

- PubMed referenced publications: 366
  - H-index (google scholar) = 83
  - Sum of times cited (google scholar) = 24462
1. **Ryvlin P.** Editorial: Epilepsy advances in 2023. **Curr Opin Neurol.** 2024 Apr 1;37(2):97-98.
  2. **Ryvlin P,** Barba C, Bartolomei F, Baumgartner C, Brazdil M, Fabo D, Fahoum F, Frauscher B, Ikeda A, Lhatoo S, Mani J, McGonigal A, Metsahonkala EL, Mindruta I, Nguyen DK, Rheims S, Rocamora R, Rydenhag B, Schuele S, Schulze-Bonhage A, Surges R, Vulliemoz S, Beniczky S. Grading system for assessing the confidence in the epileptogenic zone reported in published studies: A Delphi consensus study. **Epilepsia.** 2024 Feb 29. doi: 10.1111/epi.17928. Epub ahead of print. PMID: 38420750.
  3. Bernini A, Dan J, **Ryvlin P.** Ambulatory seizure detection. **Curr Opin Neurol.** 2024 Feb 8. doi: 10.1097/WCO.0000000000001248. Epub ahead of print. PMID: 38328946.
  4. Pale U, Teijeiro T, Rheims S, **Ryvlin P,** Atienza D. Combining general and personal models for epilepsy detection with hyperdimensional computing. **Artif Intell Med.** 2024 Feb;148:102754. doi: 10.1016/j.artmed.2023.102754. Epub 2024 Jan 5. PMID: 38325932.
  5. Ingolfsson TM, Benatti S, Wang X, Bernini A, Ducouret P, **Ryvlin P,** Beniczky S, Benini L, Cossetini A. Minimizing artifact-induced false-alarms for seizure detection in wearable EEG devices with gradient-boosted tree classifiers. **Sci Rep.** 2024 Feb 5;14(1):2980. doi: 10.1038/s41598-024-52551-0. PMID: 38316856; PMCID: PMC10844293.

6. Vlachou M, **Ryvlin P**, Armand Larsen S, Beniczky S. Focal electroclinical features in generalized tonic-clonic seizures: Decision flowchart for a diagnostic challenge. **Epilepsia**. 2024 Jan 27. doi: 10.1111/epi.17895. Epub ahead of print. PMID: 38279904.
7. Busia P, Cossetini A, Ingolfsson TM, Benatti S, Burrello A, Jung VJB, Scherer M, Scrugli MA, Bernini A, Ducouret P, **Ryvlin P**, Meloni P, Benini L. Reducing False Alarms in Wearable Seizure Detection with EEGformer: A Compact Transformer Model for MCUs. **IEEE Trans Biomed Circuits Syst**. 2024 Jan 23;PP. doi: 10.1109/TBCAS.2024.3357509. Epub ahead of print. PMID: 38261487.
8. Pizzarotti B, Buhler-Heintze A, Allali G, Rouaud O, Bally J, Michel P, Hirt L, Théaudin M, Pot Kreis C, **Ryvlin P**, Sokolov A, Rossetti A, Novy J, Du Pasquier R. Neurologie: ce qui a changé en 2023 [Neurology: what's new in 2023]. **Rev Med Suisse**. 2024 Jan 17;20(856-7):72-75. French. doi: 10.53738/REVMED.2024.20.856-7.72. PMID: 38231105.
9. Kujala J, Ciumas C, Jung J, Bouvard S, Lecaigard F, Lothe A, Bouet R, **Ryvlin P**, Jerbi K. GABAergic inhibition shapes behavior and neural dynamics in human visual working memory. **Cereb Cortex**. 2024 Jan 31;34(2):bhad522. doi: 10.1093/cercor/bhad522. PMID: 38186005; PMCID: PMC10839845.
10. Frauscher B, Mansilla D, Abdallah C, Astner-Rohracher A, Beniczky S, Brazdil M, Gnatkovsky V, Jacobs J, Kalamangalam G, Perucca P, **Ryvlin P**, Schuele S, Tao J, Wang Y, Zijlmans M, McGonigal A. Learn how to interpret and use intracranial EEG findings. **Epileptic Disord**. 2024 Feb;26(1):1-59. doi: 10.1002/epd2.20190. Epub 2024 Feb 13. PMID: 38116690.
11. Beniczky S, **Ryvlin P**. Mobile health and digital technology in epilepsy: The dawn of a new era. **Epilepsia**. 2023 Dec;64 Suppl 4:S1-S3. doi: 10.1111/epi.17813. Epub 2023 Nov 28. PMID: 37921045
12. International League Against Epilepsy Consortium on Complex Epilepsies. GWAS meta-analysis of over 29,000 people with epilepsy identifies 26 risk loci and subtype-specific genetic architecture. **Nat Genet**. 2023 Sep;55(9):1471-1482
13. Zelano J, Beniczky S, **Ryvlin P**, Surges R, Tomson T; ILAE SUDEP Task Force. Report of the ILAE SUDEP Task Force on national recommendations and practices around the world regarding use of wearable seizure detection devices: A global survey. **Epilepsia Open**. 2023 Aug 11. doi: 10.1002/epi4.12801. Epub ahead of print. PMID: 37567865.
14. Montanucci L, Lewis-Smith D, Collins RL, Niestroj LM, Parthasarathy S, Xian J, Ganesan S, Macnee M, Brünger T, Thomas RH, Talkowski M; Epi25 Collaborative; Helbig I, Leu C, Lal D. Genome-wide identification and phenotypic characterization of seizure-associated copy number variations in 741,075 individuals. **Nat Commun**. 2023 Jul 20;14(1):4392. doi: 10.1038/s41467-023-39539-6. PMID: 37474567; PMCID: PMC10359300.
15. Peltola J, Colon AJ, Pimentel J, Coenen VA, Gil-Nagel A, Gonçalves Ferreira A, Lehtimäki K, **Ryvlin P**, Taylor RS, Ackermans L, Ardesch J, Bentes C, Bosak M, Burneo JG, Chamadoira C, Elger CE, Eröss L, Fabo D, Faulkner H, Gawlowicz J, Gharabaghi A, Iacoangeli M, Janszky J, Järvenpää S, Kaufmann E, Kho KH, Kumlien E, Laufs H, Lettieri C, Linhares P, Noachtar S, Parrent A, Pataria E, Patel NK, Peralta AR, Rácz A, Campos AR, Rego R, Ricciuti RA, Rona S, Rouhl RPW, Schulze- Bonhage A, Schuurman R, Sprengers M, Sufianov A, Temel Y, Theys T, Van Paesschen W, Van Roost D, Vaz R, Vonck K, Wagner L, Zwemmer J, Abouihia A, Brionne TC, Gielen F, Boon PAJM; MORE Study Group. Deep Brain Stimulation of the Anterior Nucleus of the Thalamus in Drug-Resistant Epilepsy in the MORE Multicenter Patient Registry. **Neurology**. 2023 May 2;100(18):e1852-e1865. doi: 10.1212/WNL.0000000000206887. Epub 2023 Mar 16. PMID: 36927882; PMCID: PMC10159763.
16. Diserens K, Meyer IA, Jöhr J, Pincherle A, Dunet V, Pozeg P, **Ryvlin P**, Mureşanu DF, Stevens RD, Schiff ND. A Focus on Subtle Signs and Motor Behavior to Unveil Awareness in Unresponsive Brain-Impaired Patients: The Importance of Being Clinical. **Neurology**. 2023 Jun 13;100(24):1144-1150. doi: 10.1212/WNL.0000000000207067. Epub 2023 Feb 28. PMID: 36854621; PMCID: PMC10264055.
17. Pozeg P, Alemán-Gómez Y, Jöhr J, Muresanu D, Pincherle A, **Ryvlin P**, Hagmann P, Diserens K, Dunet V. Structural connectivity in recovery after coma: Connectome atlas approach. **Neuroimage Clin**. 2023;37:103358. doi: 10.1016/j.nicl.2023.103358. Epub 2023 Feb 24. PMID: 36868043; PMCID: PMC9996111.
18. Agosti R, Parzini C, Findling O, Myers P, Petersen JA, **Ryvlin P**, Sandor P, Stallmach M, Zecca C, Snellman J, Ritter S, Arzt ME, Rohrer S, Gantenbein AR. Prevalence and Burden of Migraine

- in Switzerland: Cross-Sectional Study in ten Specialised Headache Centres from the BECOME Study. **Pain Ther.** 2023 Apr;12(2):575-591. doi: 10.1007/s40122-023-00484-3. Epub 2023 Feb 26. PMID: 36842093; PMCID: PMC10036704.
19. Ciumas C, Bolay M, Bouet R, Rheims S, Ibarrola D, Hampson JP, Lhatoo SD, **Ryvlin P**. Subject-Specific Activation of Central Respiratory Centers during Breath-Holding Functional Magnetic Resonance Imaging. **Respiration.** 2023;102(4):274-286. doi: 10.1159/000529388. Epub 2023 Feb 7. PMID: 36750046.
  20. Bouvy C, Caranzano L, Allali G, Bally J, Benninger D, Beuchat I, Castro Jimenez M, Di Virgilio G, Hirt L, Michel P, Novy J, Pot Kreis C, Rossetti A, Rouaud O, **Ryvlin P**, Salvioni Chiabotti P, Sokolov A, Strambo D, Théaudin M, Du Pasquier R. Neurologie : ce qui a changé en 2022 [Neurology: what's new in 2022]. **Rev Med Suisse.** 2023 Jan 18;19(N° 809-10):42-45. French. doi: 10.53738/REVMED.2023.19.809-10.42. PMID: 36660836.
  21. Henshall DC, Arzimanoglou A, Dedeurwaerdere S, Guerrini R, Jozwiak S, Kokaia M, Lerche H, Pitkänen A, **Ryvlin P**, Simonato M, Sisodiya SM. Shaping the future of European epilepsy research: Final meeting report from EPICLUSTER. **Epilepsy Res.** 2023 Jan;189:107068. doi: 10.1016/j.eplepsyres.2022.107068. Epub 2022 Dec 18. PMID: 36549242.
  22. Gantenbein AR, Agosti R, Kamm CP, Landmann G, Meier N, Merki-Feld GS, Petersen JA, Pohl H, **Ryvlin P**, Schankin CJ, Viceic D, Zecca C, Schäfer E, Meyer I, Arzt ME. Swiss Quality of life and healthcare impact Assessment in a Real- world Erenumab treated migraine population (SQUARE study): interim results. **J Headache Pain.** 2022 Nov 18;23(1):142. doi: 10.1186/s10194-022-01515-8. Erratum in: J Headache Pain. 2022 Dec 19;23(1):161. PMID: 36401172; PMCID: PMC9673191.
  23. Mitchell JW, Noble A, Baker G, Batchelor R, Brigo F, Christensen J, French J, Gil-Nagel A, Guekht A, Jette N, Kälviäinen R, Leach JP, Maguire M, O'Brien T, Rosenow F, **Ryvlin P**, Tittensor P, Tripathi M, Trinka E, Wiebe S, Williamson PR, Marson T. Protocol for the development of an international Core Outcome Set for treatment trials in adults with epilepsy: the EPilepsy outcome Set for Effectiveness Trials Project (EPSET). **Trials.** 2022 Nov 17;23(1):943. doi: 10.1186/s13063-022-06729-4. PMID: 36397081; PMCID: PMC9670528.
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