

Curriculum vitae

Jean-Michel RIGO



Biosketch

I was born on December 4th, 1964. I studied biology at the University of Liège and received my PhD in 1994 for a work in cellular and molecular physiology for which I developed in Liège the patch-clamp technique that I learned in Helmut Kettenmann's lab in Heidelberg. I was then appointed as an associate professor in Physiology ("premier assistant" and then "chef de travaux") at the University of Liège. In 2002, I went for a sabbatical research period to the laboratory of Pascal Legendre at the University Pierre & Marie Curie in Paris to study glycinergic neurotransmission using advanced molecular electrophysiology. In 2004, I joined the physiology group at Hasselt University to develop an independent research program in neurobiology. I became head of the group in 2009 and full professor in 2010.

My research in neurobiology concerns the plasticity of excitability in brain development and regeneration. In close collaboration with Prof. Dr. Bert Brône, we study neuronal and microglial aspects in the etiology of autism and schizophrenia. In a first research line, the lab discovered the glycine receptor subunit $\alpha 2$ as an essential component for embryonic brain development and that its loss of function induces dysfunction of neuronal circuits involved in autism spectrum disorder. In a second

research line, microglia are studied as immune mediators contributing to neurodevelopmental diseases.

I authored 119 peer-reviewed publications (ORCID ID: orcid.org/0000-0002-0031-526X) and have been (co)promoter of 25 PhD's and (co)investigator for 62 research contracts.

I teach, among others, general physiology and neurosciences to (bio)medical students at Hasselt University. Since my position in Liège, I have also developed expertise in self-learning methods, e-learning and virtual labs.

Besides neurobiology, I also have expertise in research and development in the domain of teaching and learning, and especially in evaluation engineering. As a teacher, I introduced and helped developing an Assessment Management System (DOCI-MO, then ANS), which is now used for all modules of the medicine program, for learning assessment. As a vice-rector in charge of Education, I reformed the university system of teaching assessment. In 2022, I went for a sabbatical research period to the Haute Ecole Pédagogique of the canton of Vaud in Lausanne to develop research in engineering of evaluations of trainings with Prof. Jean-Luc Gilles.

From 2009 to 2012, I headed the department of Physiology-Immunology-Biochemistry and the education management team of the master in biomedical sciences, and I was vice-dean of the School of Life Sciences (Transnational University of Limburg). Since 2006, I have also been actively involved in development cooperation projects (RD Congo, Vietnam and Morocco).

From 2012 to 2016, I was vice-rector of Education and of Internationalisation, and from 2016 to 2020, I was vice-rector of Research and Internationalisation at Hasselt University. Since 2020, I am director of the doctoral school for Health and Life Sciences.

CV — Summary

General information

born in Uccle, December 4th 1964

married, two sons

Private

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Professional

Universiteit Hasselt — Neuroscience group – BIO-
MED Institute – Agoralaan (gebouw C) – 3590 Die-
penbeek – Belgium – Tel.: +32 (0)11 26 80 04 – e-
mail : jeanmichel.rigo@uhasselt.be – web: JMRigo

Education

- 1994 — PhD in Biomedical Sciences, University of Liège – Summa cum laude
- 1987 — 2nd year of Medical Sciences, University of Liège – Magna cum laude
- 1986 — Aggregation of higher secondary education (Biology), University of Liège – Magna cum laude
- 1986 — Master in Biology (Zoological sciences), University of Liège – Summa cum laude (and the congratulations of the jury)
- 1982 — Greek-Latin Humanities (secondary school), Collège Saint-Servais (Liège)

Career History

- 2007-now — Full professor in Neurophysiology, Hasselt University, Faculty of Medicine and Life Sciences
- 2016-2020 — Vice-rector for research and international relations, Hasselt University

- 2012-2016 — Vice-rector for education and international relations, Hasselt University
- 2007-2009 — Professor in Neurophysiology, Hasselt University, Faculty of Medicine and Life Sciences
- 2004-2006 — Senior lecturer in Neurophysiology, Hasselt University, Faculty of Medicine and Life Sciences
- 2000-2006 — Tenured assistant professor in Physiology, University of Liège, Faculty of Medicine, Department of preclinical sciences
- 1996-2000 — Tenured teaching assistant in Physiology, University of Liège, Faculty of Medicine, Department of human physiology
- 1994-1995 — Researcher in Neurobiology, University of Liège, Faculty of Medicine, Department of human physiology
- 1988-1994 — Teaching assistant in Physiology, University of Liège, Faculty of Medicine, Department of human physiology
- 1987-1988 — Secondary school teacher in Physics, Saint-Laurent Institute (Liège)
- 1986-1987 — Student-researcher in Physiology, University of Liège, Faculty of Medicine, Department of human physiology
- 1985-1986 — Student teaching assistant in Zoology, University of Liège, Faculty of Sciences, Department of Zoology

Research activities

- Long abroad stays for a total of > 3 years.
- (Co-)organisation of 14 international congresses and symposia
- Research contracts
 - 35 as principal investigator
 - 27 as co-investigator
- 5 awards and fellowships

Areas of expertise

- Developmental neurobiology, neurotoxicology, neurotransmission, ligand-gated ion channels, excitability and developmental disorders
- Cell and organotypic culture, cellular and molecular electrophysiology (patch-clamping), functional tests (calcium, cell survival, etc.)

Publications (as of 17/09/2024)

- ORCID ID: orcid.org/0000-0002-0031-526X
- ScopusAuthorID: [7103129150](https://orcid.org/7103129150)
- ResearcherID: [E-3456-2010](https://orcid.org/E-3456-2010)
- WoS: 156 Core Collection publications, 4090 citations, h-index = 35
 - 119 A1 articles (IF = 492.3)
 - 32 as first of last author (IF = 119.9)
 - 25 as second or next-to-last author (IF = 90.2)
 - 62 as co-author (IF = 282.2)
- 2 theses
- 5 books & book chapters

PhD's theses

- 9 defended as main promoter
- 13 defended as co-promoter
- 3 ongoing as (co-)promoter
- 10 as international jury member
- 15 as national jury member
- 18 as jury member at own institution

Teaching and education research activities

- domains: physiology, biology, neuroscience
- innovation and research in education: self-learning, e-learning, evaluation engineering (member of the [GIRIEF](#) network)
- 18 publications in education research

Service activities

Experience in:

- policy making (vice-rector UHasselt 2012-2020)
- university development cooperation (projects since 2007 in RD Congo, Vietnam, Morocco, Bolivia)

Scientific societies

- 1996-now — Member of the Belgian Society for Neuroscience (BSN)
- 1996-now — Foreign member of the Society for Neuroscience (SFN)

- 1999-now — Member of the Belgian Society of Cell and Developmental Biology (BSCDB)
- 1999-now — Member of the Federation of European Neuroscience Societies (FENS)
- 2004-now — Member of the board of the European Network of Neuroscience Schools (EURON)
- 2004-now — Member of the American Physiological Society (APS)
- 2004-now — Member of the Belgian Society of Physiology and Pharmacology (BSPP)
- 2005-now — Member of the board of the Belgian Society for Neuroscience (BSN)
- 2022-now — Membre de l'Association pour le Développement des Méthodologies d'Evaluation en Education (ADMEE)

Referee & Expert

- Referee for several scientific journals: Biochemical Pharmacology, Biochemistry, Brain Research, European Journal of Neuroscience, Journal of Neuroscience Methods, British Journal of Pharmacology, Journal of the Royal Society Interface, Journal of Alzheimer's disease, Journal of Neurochemistry, Frontiers in Neuroscience, Journal of Neuroinflammation, Glia, Journal of Psychiatry Research
- Member of the editorial board of Médecine/Sciences (and writer of news & comments), Frontiers in Molecular Neuroscience
- Expert activities:
 - International level : INSERM, US-Israel Binational Science Foundation, DFG
 - National level : FWO, IWT, FNRS, VLIR-UOS, VWRI, ANR, ARES, Fondation Clerdent Foundation, Maurange Fund, Scientific committee of the King Baudouin Foundation, Medical Foundation Queen Elisabeth

Councils

- University of Liège
 - Faculty council (Medicine): representative of scientific personal (member in 1991-1993 and 1995-2001, vice-president in 1997-1999)
 - University council of scientific personal (member in 1995-2001, vice-president in 1998-1999, president in 1999-2001)
 - Education council of medicine (undergraduate level): representative of scientific personal (1996-2004)

- Research council: representative of scientific personal (1997-2004)
- Scientific council of informatics: representative of the Faculty of medicine (2000-2004)
- Hasselt University
 - Member of different councils
 - President of the capacity group (department) Physiology-Biochemistry-Immunology (2007-2012)
 - Vice-dean of the School for Life Sciences of the transnational University Limburg (tUL) (2009-2012)
 - President of the OMT (education management team) of the master in Biomedical Sciences (2009-2012)
 - Vice-rector for Education and International relations (2012-2016)
 - Vice-rector for Research and International relations (2016-2020)
 - Director of the Doctoral School Health and Life Sciences (2020-now)
- Outside the university
 - As vice-rector, member of different Interuniversity workgroups of the VLIR
 - Member: board of VLIR-UOS (2019-2021), general assembly VVOB (2025-now), ABCO (2025-now)
 - Member of the organising authority of the Saint-Paul institute (primary school) in Liège (2002-2008)
 - President of the organising authority of the School center Saint-Benoit Saint-Servais (primary and secondary school) in Liège (2016-now)

Various

Languages

- French: Mother language (C2)
- English: Active knowledge (written & oral - C1 certificate)
- Dutch: Active knowledge (written & oral - C1 certificate)
- German: Passive/active knowledge (estimated B1-B2)
- Italian: Passive knowledge (estimated A2-B1)
- Spanish: Passive knowledge (estimated A2-B1)

CV — Details

Research activities

Publications

‡ = equally contributed

Articles

1. Lefebvre, P.P., Rigo, J.-M., Leprince, P., Rogister, B., Delrée, P., Hans, P., Born, J.D. and Moonen, G., Mise en évidence d'une activité neurotoxique dans le liquide céphalo-rachidien de traumatisés crâniens graves, *Agressologie*, 29(4) (1988) 241-242. (non SCI)
2. Lefebvre, P.P., Weber, T., Rigo, J.-M., Demanez, S., Delrée, P., Rogister, B., Leprince, P. and Moonen, G., Interactions neuronotrophiques dans l'oreille interne en développement, *Acta ORL belgica*, 43(5) (1989) 403-409. (non SCI)
3. Leprince, P., Lefebvre, P.P., Rigo, J.-M., Delrée, P., Rogister, B. and Moonen, G., Cultured astroglia release a neuronotoxic activity that is not related to the excitotoxins, *Brain Research*, 502 (1989) 21-27. (IF=2,15 (1998); *Neurosciences* 72/202, Q2)
4. Leprince, P., Rigo, J.-M., Lefebvre, P.P., Rogister, B., Delrée, P. and Moonen, G., In vitro kinetics of a newborn astroglia-derived neuronotoxic activity, *Neuroscience Letters*, 102 (1989) 268-272. (IF=1,934 (1998); *Neurosciences* 78/202, Q2)
5. Lefebvre, P.P., Leprince, P., Weber, T., Rigo, J.-M., Delrée, P. and Moonen, G., Neuronotrophic effect of developing otic vesicle on cochleo-vestibular neurons : evidence for nerve growth factor involvement, *Brain Research*, 507 (1990) 254-260. (IF=2,15 (1998); *Neurosciences* 72/202, Q2)
6. Lefebvre, P.P., Weber, T., Rigo, J.-M., Delrée, P., Leprince, P. and Moonen, G., Potassium-induced release of an endogenous toxic activity for outer hair cell and auditory neurons in the cochlea : a new pathophysiological mechanism in Ménière's disease ?, *Hearing Research*, 47 (1990) 83-94. (IF=1,598 (1998); *Otorhinolaryngology* 2/29, Q1)
7. Moonen, G., Rogister, B., Leprince, P., Rigo, J.-M., Delrée, P., Lefebvre, P.P. and Schoenen, J., Neuroglial interactions and neural plasticity, *Progress in Brain Research*, 86 (1990) 63-73. (IF=1,95 (1998); *Neurosciences* 77/202, Q2)
8. Rogister, B., Leprince, P., Bonhomme, V., Rigo, J.-M., Delrée, P., Colige, A. and Moonen, G., Cultured neurons release an inhibitor of astroglia proliferation (astrostatine), *Journal of Neuroscience Research*, 25(1) (1990) 58-70. (IF=2,874 (1998); *Neurosciences* 47/202, Q1)
9. Lefebvre, P.P., Weber, T., Leprince, P., Rigo, J.-M., Delrée, P., Rogister, B. and Moonen, G., Kainate and NMDA toxicity for cultured developing and adult spiral ganglion neurons : further evidence for a glutamatergic excitatory neurotransmission at the inner hair cell synapse, *Brain Research*, 555(1) (1991) 75-83. (IF=2,15 (1998); *Neurosciences* 72/202, Q2)
10. Leprince, P., Rogister, B., Delrée, P., Rigo, J.-M., André, B. and Moonen, G., Modulation of proteolytic activity during neuritogenesis in the PC12 nerve cell: differential control of plasminogen activator and plasminogen activator inhibitor activities by nerve growth factor and dibutyryl-cyclic AMP, *Journal of Neurochemistry*, 57(2) (1991) 665-674. (IF=4,651 (1998); *Neurosciences* 24/202, Q1)
11. Leprince, P., Rogister, B., Delrée, P., Martin, D., Lefebvre, P.P., Rigo, J.-M. and Moonen, G., Protéases et inhibiteurs de protéases : implications multiples dans le développement et le vieillissement cérébral, *Revue d'Oto-Neuro-Ophthalmologie*, 12(13) (1991) 30-38. (non SCI)
12. Martin, D., Delrée, P., Schoenen, J., Rogister, B., Rigo, J.-M., Leprince, P., Stevenaert, A. and Moonen, G., Transplants of syngeneic adult dorsal root ganglion neurons to the spinal cord of rats with acute traumatic paraplegia : morphological analyses, *Restorative Neurology and Neuroscience*, 2 (1991) 303-308. (IF=1,196 (1998); *Neurosciences* 122/202, Q3)
13. Delrée, P., Martin, D., Sadzot-Delvaux, C., Rogister, B., Leprince, P., Robe, P., Rigo, J.-M., Lefebvre, P.P., Malgrange, B., Schoenen, J. and Moonen, G., In vitro and in vivo modulation of 5-hydroxytryptamine-, thyrotropin-releasing hormone and calcitonin-gene related peptide-like immunoreactivities in adult rat sensory neurons, *Neuroscience*, 51 (1992) 401-410. (IF=3,591 (1998); *Neurosciences* 33/202, Q1)
14. Lefebvre, P.P., Weber, T., Rigo, J.-M., Staecker, H., Moonen, G. and Van De Water, T.R., Peripheral and central target-derived trophic factor(s) effects on auditory neurons, *Hearing Research*, 58

- (1992) 185-192. (IF=1,598 (1998); Otorhinolaryngology 2/29, Q1)
15. Delrée, P., Ribbens, C., Martin, D., Rogister, B., Lefebvre, P.P., Rigo, J.-M., Leprince, P., Schoenen, J. and Moonen, G., Plasticity of developing and adult dorsal root ganglion neurons as revealed in vitro, *Brain Research Bulletin*, 30(3-4) (1993) 231-237. (IF=1,65 (1998); Neurosciences 101/202, Q2)
 16. Martin, D., Schoenen, J., Delrée, P., Rigo, J.-M., Rogister, B., Leprince, P. and Moonen, G., Syngenic grafting of adult rat DRG-derived Schwann cells to the injured spinal cord, *Brain Research Bulletin*, 30(3-4) (1993) 507-514. (IF=1,65 (1998); Neurosciences 101/202, Q2)
 17. Rogister, B., Delrée, P., Leprince, P., Martin, D., Sadzot, C., Malgrange, B., Munaut, C., Rigo, J.-M., Lefebvre, P.P., Octave, J.N., Schoenen, J. and Moonen, G., Transforming growth factor b as a neuro-glial signal during peripheral nervous system response to injury, *Journal of Neuroscience Research*, 34 (1993) 32-43. (IF=2,874 (1998); Neurosciences 47/202, Q1)
 18. Malgrange, B., Delrée, P., Rigo, J.-M., Baron, H. and Moonen, G., Image analysis of neuritic regeneration by adult rat dorsal root ganglion neurons in culture : Quantification of the neurotoxicity of anticancer agents and of its prevention by NGF or bFGF but not BDNF or NT-3, *Journal of Neuroscience Methods*, 53 (1994) 111-122. (IF=1,43 (1998); Biochemical Research Methods 19/40, Q2)
 19. Rigo, J.-M., Belachew, S., Lefebvre, P.P., Leprince, P., Malgrange, B., Rogister, B., Kettenmann, H. and Moonen, G., Astroglia-released factor shows similar effects as benzodiazepine inverse agonists, *Journal of Neuroscience Research*, 39 (1994) 364-376. (IF=2,874 (1998); Neurosciences 47/202, Q1)
 20. Malgrange, B., Rigo, J.-M., Coucke, P., Belachew, S., Rogister, B. and Moonen, G., beta-Carbolines induce apoptotic death of cerebellar granule neurons in culture, *Neuroreport*, 18 (1996) 3041-3045. (IF=2,591 (1998); Neurosciences 57/202, Q2)
 21. Moonen, G., Malgrange, B., Rigo, J.-M. and Rogister, B., Neurotrophic factors : Past and future, *Acta Neurologica Belgica*, 3 (1996) 203-218. (IF=0,226 (1998); Neurosciences 171/202, Q4)
 22. Rigo, J.-M., Belachew, S., Coucke, P., Leprince, P., Malgrange, B., Rogister, B. and Moonen, G., Astroglia-released factor with negative allosteric modulatory properties at the GABAA receptor: Evidence from binding studies, *Biochemical Pharmacology*, 52 (1996) 465-473. (IF=2,719 (1998); Pharmacology & Pharmacy 23/178, Q1)
 23. Bourguignon, J.P., Gerard, A., Purnelle, G., Czajkowski, V., Yamanaka, C., Lemaître, M., Rigo, J.-M., Moonen, G. and Franchimont, P., Duality of glutamatergic and gabaergic control of pulsatile GnRH secretion by rat hypothalamic explants : I. Effects of antisense oligodeoxynucleotides and role of explant size, *Journal of Neuroendocrinology*, 9(3) (1997) 183-191. (IF=2,832 (1998); Endocrinology & Metabolism 19/83, Q1)
 24. Bourguignon, J.P., Gerard, A., Purnelle, G., Czajkowski, V., Yamanaka, C., Lemaître, M., Rigo, J.-M., Moonen, G. and Franchimont, P., Duality of glutamatergic and gabaergic control of pulsatile GnRH secretion by rat hypothalamic explants : II. Developmental changes at initiation of sexual maturation, *Journal of Neuroendocrinology*, 9(3) (1997) 193-199. (IF=2,832 (1998); Endocrinology & Metabolism 19/83, Q1)
 25. Hubert, P., Hurlet, V., Rigo, J.-M., Coucke, P., Moonen, G. and Crommen, J., Fluorescence detection of a neurotoxic astroglia-released factor using gradient liquid chromatography after precolumn derivatization, *Biomedical Chromatography*, 11 (1997) 93-95. (IF=1,013 (1998); Chemistry, Analytical 33/65, Q3)
 26. Malgrange, B., Rigo, J.-M., Lefebvre, P.P., Coucke, P., Goffin, F., Xhaufaire, G., Belachew, S., Van De Water, T.R. and Moonen, G., Diazepam-insensitive GABAA receptors on postnatal spiral ganglion neurons in culture, *Neuroreport*, 3 (1997) 591-596. (IF=2,591 (1998); Neurosciences 57/202, Q2)
 27. Belachew, S., Rogister, B., Rigo, J.-M., Malgrange, B., Mazy-Servais, C., Xhaufaire, G., Coucke, P. and Moonen, G., Cultured oligodendrocyte progenitors derived from cerebral cortex express a glycine receptor which is pharmacologically distinct from the neuronal isoform, *European Journal of Neuroscience*, 10 (1998) 3556-3564. (IF=3,899 (1999); Neurosciences 33/201, Q1)
 28. Belachew, S., Malgrange, B., Rigo, J.-M., Rogister, B., Coucke, P., Mazy-Servais, C. and Moonen, G., Developmental regulation of neurotrophin-induced responses in cultured oligodendroglia, *Neuroreport*, 9 (1998) 973-980. (IF=2,591 (1998); Neurosciences 57/202, Q2)
 29. Malgrange, B., Lefebvre, P.P., Van De Water, T.R., Bonnet, C., Monville, F., Rigo, J.-M., Staeker, H. and Moonen, G., In vitro ototoxicity of aminogly-

- cosides and platin derivatives. A semiautomatic assay for sensory hair cell damage in explanted rat organ of Corti, *Toxicology in vitro*, 12(13) (1998) 705-714. (IF=0,753 (1998); *Toxicology* 46/71, Q3)
30. Malgrange, B., Rogister, B., Lefebvre, P.P., Mazy-Servais, C., Welcher, A.A., Bonnet, C., Hsu, R.Y., Rigo, J.-M., Van De Water, T.R. and Moonen, G., Expression of growth factors and their receptors in the postnatal rat cochlea, *Neurochemical Research*, 23 (1998) 1133-1138. (IF=1,677 (1998); *Neurosciences* 98/202, Q2)
 31. Rigo, J.-M. and Moonen, G., Enseignement multimédia en candidatures en Médecine à l'Université de Liège, *Infosciences*, février (1998) 8-12. (non SCI)
 32. Belachew, S., Rogister, B., Rigo, J.-M., Malgrange, B. and Moonen, G., *Acta Neurologica Belgica*, 99 (1999) 21-31. (IF=0,275 (1999); *Neurosciences* 175/201, Q4)
 33. Malgrange, B., Rigo, J.-M., Van De Water, T.R., Staecker, H., Moonen, G. and Lefebvre, P.P., Growth factor therapy to the damaged inner ear : clinical prospects, *International Journal of Pediatric Otorhinolaryngology*, 49 (1999) S19-S25. (IF=0,516 (1999); *Otorhinolaryngology* 19/30, Q3)
 34. Princen, F., Robe, P., Lechanteur, C., Mesnil, M., Rigo, J.-M., Gielen, J., Merville, M.P. and Bours, V., A cell type-specific and gap junction-independent mechanism for the herpes simplex virus-1 thymidine kinase gene/ganciclovir mediated bystander effect, *Clinical Cancer Research*, 5 (1999) 3639-3644. (IF=3,442 (1999); *Oncology* 16/105, Q1)
 35. Belachew, S., Malgrange, B., Rigo, J.-M., Rogister, B., Hans, G., Nguyen, L. and Moonen, G., Glycine-triggered intracellular calcium influx in oligodendrocyte progenitor cells is mediated by the activation of both glycine receptor and transporters, *European Journal of Neuroscience*, 12 (2000) 1924-1930. (IF=3,862 (2000); *Neurosciences* 34/203, Q1)
 36. Nguyen, L., Rigo, J.-M., Rocher, V., Belachew, S., Malgrange, B., Rogister, B., Leprince, P. and Moonen, G., Neurotransmitters as early signals for central nervous system development, *Cell and Tissue Research*, 305 (2001) 187-202. (IF=2,492 (2001); *Cell Biology* 62/147, Q2)
 37. Hans, G., Moonen, G. and Rigo, J.-M., Modulation of neuronal survival and excitability by an astroglia-derived factor, *Journal of Physiology (Paris)*, 96 (2002) 323-328. (IF=1,07 (2002); *Physiology* 54/73, Q3)
 38. Malgrange, B., Rigo, J.-M., Coucke, P., Thiry, M., Hans, G., Nguyen, L., Van De Water, T.R., Moonen, G. and Lefebvre, P.P., Identification of factors that maintain mammalian outer hair cells in adult organ of Corti explants, *Hearing Research*, 170 (2002) 48-58. (IF=1,969 (2002); *Otorhinolaryngology* 2/32, Q1)
 39. Malgrange, B., Belachew, S., Thiry, M., Nguyen, L., Rogister, B., Alvarez, M.-L., Rigo, J.-M., Van De Water, T.R., Moonen, G. and Lefebvre, P.P., Proliferative generation of mammalian auditory hair cells in culture, *Mechanisms of Development*, 112 (2002) 79-88. (IF=3,462 (2002); *Developmental biology* 12/33, Q2)
 40. Nguyen, L., Malgrange, B., Belachew, S., Rogister, B., Rocher, V., Moonen, G. and Rigo, J.-M., Functional glycine receptors are expressed by postnatal nestin positive neural stem/progenitor cells, *European Journal of Neuroscience*, 15 (2002) 1299-1305. (IF=4,163 (2002); *Neurosciences* 33/197, Q1)
 41. Rigo, J.-M., Hans, G., Nguyen, L., Rocher, V., Belachew, S., Malgrange, B., Leprince, P., Moonen, G., Selak, I., Matagne, A. and Klitgaard, H., The antiepileptic drug levetiracetam reverses the inhibition by negative allosteric modulators of neuronal GABA- and glycine-gated currents, *British Journal of Pharmacology*, 136 (2002) 659-672. (IF=3,45 (2002); *Pharmacology & Pharmacy* 26/188, Q1)
 42. Lallemend, F., Lefebvre, P.P., Hans, G., Rigo, J.-M., Van De Water, T.R., Moonen, G. and Malgrange, B., Substance P protects spiral ganglion neurons from apoptosis via PKC-Ca²⁺-MAPK/ERK pathways, *Journal of Neurochemistry*, 87 (2003) 508-521. (IF=4,825 (2003); *Neurosciences* 26/198, Q1)
 43. Mangin, J.-M., Baloul, M., Prado da Carvalho, L., Rogister, B., Rigo, J.-M.† and Legendre, P. ‡, Kinetics properties of the α 2z homo-oligomeric glycine receptor impairs a proper synaptic functioning, *Journal of Physiology (London)*, 553 (2003) 369-386. (IF=4,352 (2003); *Physiology* 7/74, Q1)
 44. Nguyen, L., Malgrange, B., Breuskin, I., Bettendorf, L., Moonen, G., Belachew, S. and Rigo, J.-M., Autocrine/paracrine activation of the GABAA receptor inhibits the proliferation of neurogenic PSA-NCAM+ precursor cells from postnatal striatum, *Journal of Neuroscience*, 23 (2003) 3278-3294. (IF=8,306 (2003); *Neurosciences* 10/198, Q1)

45. Nguyen, L., Rigo, J.-M., Malgrange, B., Moonen, G. and Belachew, S., Untangling the functional potential of PSA-NCAM-expressing cells in CNS development and brain repair strategies, *Current Medicine Chemistry*, 10 (2003) 2185-2196. (IF=4,409 (2003); *Biochemistry & Molecular biology* 52/261, Q1)
46. Nguyen, L., Malgrange, B., Rocher, V., Hans, G., Moonen, G., Rigo, J.-M.† and Belachew, S.†, Chemical inhibitors of cycling-dependent kinases control proliferation, apoptosis and differentiation of oligodendroglial cells, *International Journal of Developmental Neuroscience*, 21 (2003) 321-326. (IF=1,543 (2003); *Neurosciences* 132/198, Q3)
47. Rigo, J.-M., Badiu, C.I. and Legendre, P., Heterogeneity of postsynaptic receptor occupancy fluctuations among glycinergic inhibitory synapses, *Journal of Physiology (London)*, 553 (2003) 819-832. (IF=4,352 (2003); *Physiology* 7/74, Q1)
48. Nguyen, L., Malgrange, B., breuskin, I., Lalle-mend, F., Hans, G., Moonen, G., Belachew, S.† and Rigo, J.-M.†, Striatal PSA-NCAM+ precursor cells from newborn rat express functional strychnine-sensitive glycine receptors, *Neuroreport*, 15 (2004) 583-587. (IF=2,351 (2004); *Neurosciences* 94/198, Q2)
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Theses

1. Rigo J.-M., Contribution à l'étude des facteurs neuronotoxiques. Etude expérimentale en culture in vitro. Mémoire présenté en vue de l'obtention du grade de licencié en Sciences Zoologiques, Université de Liège, 1986, pp. 1-63.
2. Rigo J.-M., Régulation astrogliale de la survie et de l'excitabilité neuronales. Mémoire présenté en vue de l'obtention du grade de Docteur en Sciences biomédicales expérimentales, Université de Liège, 1994, pp. 1-159.

Bookchapters

1. Leprince, P., Rigo J.-M., Rogister, B., Delrée, P., Lefebvre, P.P. and Moonen, G., Trophic and toxic influences on neurones. In N.N. Osborne (Ed.) Current Aspects of the Neurosciences Vol. 1, The MacMillan Press Ltd, 1990, pp. 97-134.
2. Leprince, P., Rogister, B., Delrée, P., Lefebvre, P.P., Rigo J.-M. and Moonen, G., Multiple roles for plasminogen activator system in nervous system development. In B.W. Festoff (Ed.) Serine proteases and their serpin inhibitors in the Nervous System, Plenum Press, New York, 1990, pp. 185-197.
3. Moonen, G., Delrée, P., Lefebvre, P.P., Rigo J.-M. and Leprince, P., Neuronotrophic and neurotoxic factors. In S. Tucek (Ed.) Metabolism and Development of the Nervous System, Wiley and Sons, 1987, pp. 22-27.
4. Moonen, G., Delrée, P., Leprince, P., Rigo J.-M., Rogister, B. and Lefebvre, P.P., Developmental neurobiology and the physiopathology of brain injury. In D.G. Stein and B.A. Sabel (Eds.) Pharmacological Approaches to the Treatment of Brain and Spinal Cord Injury, Plenum Press, 1988, pp. 259-280.

5. Rogister, B., Rigo J.-M., Lefebvre, P.P., Leprince, P., Delrée, P., Martin, D., Schoenen, J. and Moonen, G., Three-dimensional organ culture systems. In A. Boulton, G. Baker and W. Walz (Eds.) Practical cell culture techniques, The Humana Press Inc., Toronto, 1992, pp. 173-200.

Education Research

1. Rigo J.-M. and Moonen, G., Enseignement multimédia en candidatures en Médecine à l'Université de Liège, Infosciences, février (1998) 8-12. (non SCI)
2. Gilles, J.-L., Rigo, J.-M., et Calais, D. (2018, octobre). L'instrumentation d'un cycle de Construction et de gestion qualité d'évaluations standardisées (CGQTS) à l'aide d'un Assessment Management System (DOCIMO) en Faculté de médecine de l'Université de Hasselt en Belgique. Communication présentée à 5e Colloque du GEVAPP « Lieux, Rythmes Et Savoirs Dans l'alternance. Former Et Évaluer À Quoi, Quand Et Où ? », Martigny, Suisse. <http://hdl.handle.net/20.500.12162/2783> (<http://hdl.handle.net/20.500.12162/2783>)
3. Rigo, J.-M., Ef Jaafari, S., et Gilles, J.-L. (2020, février). CORETEV: Un réseau d'expertises Nord-Sud en ingénierie des évaluations. Communication présentée à Séminaire international de recherche SIR CORETEV, Lausanne, Suisse. <http://hdl.handle.net/20.500.12162/3776> (<http://hdl.handle.net/20.500.12162/3776>)
4. Rigo, J.-M., Ef Jaafari, S., et Gilles, J.-L. (2020, février). Le projet UE Erasmus+ Capacity Building « Co-construction Nord-Sud d'un réseau d'expertises pour l'utilisation des nouvelles technologies en évaluation des apprentissages et des enseignements (CORETEV) ». Communication présentée à Colloque de restitution du Séminaire international de recherche SIR CORETEV, Lausanne, Suisse. <http://hdl.handle.net/20.500.12162/3775> (<http://hdl.handle.net/20.500.12162/3775>)
5. Wu Q., Vanerum M., Agten A., Christiansen A., Vandenabeele F., Rigo, J.-M., Janssen R., Certainty-based marking on multiple-choice items: psychometrics meets decision theory, Psychometrika, 86(2) (2021) 518, DOI: 10.1007/s11336-021-09759-0 (IF=2,29 (2021); Psychology, Mathematical 5/13, Q2)
6. Rigo, J.-M., Gilles, J.-L., Ef Jaafari, S., Aliss, E., Bouab, W., Chekira, C., ... Tristan-Lopez, A. (2022). Développement d'un réseau d'expertises

- pour l'utilisation des nouvelles technologies en évaluation des apprentissages et des enseignements : le projet CORETEV. Dans P. Detroz, L. Mottier Lopez et E. Issaieva (Eds.), *Livret des résumés* (pp. 212-216). <http://hdl.handle.net/20.500.12162/5918> (<http://hdl.handle.net/20.500.12162/5918>)
7. Rigo, J.-M., Ef Jaafari, S., El Kamoun, N., et Gilles, J.-L. (2022, mai). De CORETEV à GRIEF : un réseau international de recherches et d'expertises en ingénierie des évaluations. Communication présentée à Séminaire international de recherche CORETEV 2022 (SIR CORETEV 2022), Lausanne, Suisse. <http://hdl.handle.net/20.500.12162/5893> (<http://hdl.handle.net/20.500.12162/5893>)
 8. Gilles, J.-L., et Rigo, J.-M. (2022, mai). Conception et mise en œuvre d'un cycle de Construction et de gestion qualité d'évaluations de l'impact de formations (cycle CGQEIF). Communication présentée à 89e Congrès ACFAS - Symposium 526 "Formation professionnelle en milieu de travail : qualité des dispositifs offerts et effets pour les travailleurs formés, les formateurs et les employeurs", Montréal, Canada. <http://hdl.handle.net/20.500.12162/5919> (<http://hdl.handle.net/20.500.12162/5919>)
 9. Gilles, J.-L., et Rigo, J.-M. (2022, juin). Une approche qualité en ingénierie des évaluations en formation et sa mise en œuvre à l'UHasselt. Communication présentée à Conférence de sensibilisation dans le cadre du projet UE Erasmus+ CBHE, Ifrane, Maroc. <http://hdl.handle.net/20.500.12162/5923> (<http://hdl.handle.net/20.500.12162/5923>)
 10. Gilles, J.-L., et Rigo, J.-M. (2022, septembre). Conception et mise à l'essai d'un cycle de Construction et de gestion qualité des évaluations de l'impact des formations (cycle CGQEIF). Communication présentée à Semaine internationale de l'éducation et de la formation (SIEF) - Congrès SSRE, Lausanne, Suisse. <http://hdl.handle.net/20.500.12162/5936> (<http://hdl.handle.net/20.500.12162/5936>)
 11. Aliss, E., Gilles, J.-L., et Rigo, J.-M. (2023, novembre). Principes et cadres de l'approche qualité en évaluation des apprentissages. Communication présentée à Colloque de clôture du projet CORETEV, El Jadida, Maroc. <http://hdl.handle.net/20.500.12162/7154>
 12. Akhasbi H., El Kamoun N., Lakrami F., Gilles J.-L., Rigo J.-M., Aliss E., Remote formative assessment with multiple-choice questions and levels of certainty: the impact of feedback on learning, ICERI2023 Proceedings (2023), 3719, DOI: 10.21125/iceri.2023.0948. (non SCI)
 13. Gilles, J.-L., Aliss, E., Rigo J.-M. (2024, janvier), Retombées en ingénierie des évaluations du projet CORETEV, symposium organisé dans le cadre du 35ème colloque de l'ADMEE-Europe, Braga, Portugal.
 14. Gilles, J.-L., Aliss, E., et Rigo, J.-M. (2024, janvier). Le projet Erasmus+ CBHE "CORETEV" : un pas vers la modernisation des évaluations des formations dans 4 universités marocaines. Communication présentée à Symposium « Retombées en ingénierie des évaluations du projet CORETEV » (coord. E. Aliss, J.-L. Gilles et J.-M. Rigo) organisé dans le cadre du 35e Colloque de l'ADMEE-Europe, Braga, Portugal. <http://hdl.handle.net/20.500.12162/7351>
 15. Gilles, J.-L., Rigo, J.-M., Dos Santos Paulo, M., Barbaras, Y., Bentayeb, A. (2024, mai). Construire un dispositif d'évaluation du retour sur les attentes en formation à l'aide d'un cycle qualité. Communication présentée au 91e congrès de l'ACFAS, Ottawa, Canada.
 16. Rigo, J.-M. (2024, août). Case study of interactive teaching and learning: Medicine @ Hasselt University. Paper presented at the Conferencias y mesa redonda sobre el proyecto VLIR UOS SI, Cochabamba, Bolivie.
 17. El Kamoun, N., Akhasbi, H., Lakrami, F., Gilles, J.-L., Rigo, J.-M., et Aliss, E. (2025, janvier). L'intelligence artificielle générative : une opportunité pour améliorer l'évaluation formative dans un contexte universitaire massif. Communication présentée à 36e Colloque de l'ADMEE-Europe "Paradoxe de l'innovation en évaluation au 21e siècle", Belval, Luxembourg. <http://hdl.handle.net/20.500.12162/8096>
 18. Gilles, J.-L., Rigo, J.-M., Prosperi, O., Aliss, E., Balderrama, A., Gielen, M., ... Torrez, S. (2025, janvier). Amélioration continue de dispositifs d'enseignement-apprentissage virtuels hybrides à l'aide d'une approche en cycle de construction et de gestion qualité : une étude de cas à Cochabamba, Bolivie. Communication présentée à 36e Colloque de l'ADMEE-Europe "Paradoxe de l'innovation en évaluation au 21e siècle", Belval, Luxembourg. <http://hdl.handle.net/20.500.12162/8093>

Long abroad stays

- 2 January - 31 March 1991 and 1 May - 30 June 1992 — Training in electrophysiological techniques in the laboratory of Docteur H. KET-TENMANN, Department of Neurobiology - University of Heidelberg, Im Neuenheimerfeld, 345 - D-6900 Heidelberg (subsidé par une bourse de la Fondation Léon Fredericq)
- 22 February - 12 March and 15 November - 15 December 1993 — Training in binding techniques in the Laboratory of Dr A. DOBLE, Department of Neurochemistry, Rhône-Poulenc Rorer R&D, Research Center of Vitry-Alfortville, quai Jules Guesde, 13, F-94400 Vitry-sur-Seine
- 1 January - 31 December 2002 — Sabbatical research stay in the Laboratory of Dr. P. LE-GENDRE (neurophysiology of the synapse), University Pierre & Marie Curie - UMR CNRS ex7624/new7102, 9, quai Saint-Bernard - Bât. B - 6° étage - F-75252 Paris Cedex 05 - France
- 4 weeks in 2003 and in 2004, 2 weeks in 2005, 1 week in 2006, 1 week in 2007, 2 weeks in 2008, 2 weeks in 2009, 2 weeks in 2010, 2 weeks in 2011, 1 week in 2012 — Collaboration INSERM-CGRIFNRS : different stays in the laboratory of Dr. P. LEGENDRE, University Pierre & Marie Curie - UMR CNRS ex7624/new7102, 9, quai Saint-Bernard - Bât. B - 6° étage - F-75252 Paris Cedex 05 - France
- 2 weeks in 2006, 1 week in 2008, 1 week in 2012 — Bilateral collaboration Flanders-Chili in the laboratory of Prof. L. AGUAYO, University of Concepcion, Concepcion, Chili
- 2 weeks in 2015 — Visit tot differente institutions in Vietnam to prospect possible collaborations (Hué University, Ton Duc Than University, University of Transport, National Institute of Health, Vietnamese Academy of Science and Technology)
- 1 September 2021 - 30 September 2022 - Sabbatical research stay by Prof. Dr. Jean-Luc GILLES, Haute-Ecole Pédagogique du canton de Vaud, Lausanne, Suisse
- From 2008: each year at least one week to Congo, and since 2016 also to Morocco, in the frame of university development cooperation.

International congresses

(Co-)Organisation

1. 2002 — Inner Ear Biology 2002 (07-10/09, University of Liège, Belgium)
2. 2005 — Autumn Meeting of the Belgian Society of Cellular and Developmental Biology (15/10, Hasselt University, Belgium)
3. 2007 — 1st Meeting of IAP Network P6/31 (01/12, Hasselt University, Belgium)
4. 2009 — Mini-Symposium "The glycine system" (26-27/01/2009, Hasselt University, Belgium)
5. 2010 — 14th EURON PhD Days of the European Graduate School of Neuroscience (07-08/10, Hasselt University, Belgium)
6. 2012 — Spring Meeting of the Belgian Society of Fundamental and Clinical Physiology and Pharmacology (16/03, Palace of the Academies, Brussels, Belgium)
7. 2013 — Symposium on "Microglia in brain development" during the EuroGlia meeting (03-06/07, Berlin, Germany)
8. 2020 — Séminaire international de recherche SIR-CORETEV : un réseau d'expertises Nord-Sud en ingénierie des évaluations, (04-07/02, HEP Vaud, Lausanne, Switzerland)
9. 2022 — Symposium « Evaluer pour piloter : développement de dispositifs d'évaluation de formation en contextes pluriel », 33ème Colloque de l'ADMEE-Europe (12-14/04, Guadeloupe, France)
10. 2022 — De CORETEV au GIRIEF : un réseau international de recherches et d'expertises en ingénierie des évaluations, SIR-CORETEV-2022 (02-06/05, HEP Vaud, Lausanne, Switzerland)
11. 2023 — Symposium « Continuités et ruptures des dispositifs d'évaluations aux quatre niveaux de Kirkpatrick dans une perspective de soutien aux apprentissages et d'empowerment des apprenants en FTLV », 34ème Colloque de l'ADMEE-Europe (03-05/04, Mons, Belgique)
12. 2024 — Symposium « Retombées en ingénierie des évaluations du projet CORETEV », 25ème Colloque de l'ADMEE-Europe (24-26/01, Braga, Portugal)
13. 2024 — Symposium « La technique des degrés de certitude en ingénierie des évaluations » au congrès SSRE (26-28/06, Locarno, Switzerland)
14. 2024 — Generat°IEF : échanges et transmissions entre générations de chercheurs et d'experts en

ingénierie des évaluations en formation (25-29/11, HEP Vaud, Lausanne, Switzerland)

Oral communications on invitation

1. 1991 — Fifth International Symposium on Neurobiology (18-19/10, Fondation Médicale Reine Elisabeth, Brussels, Belgium)
2. 1994 — Satellite Symposium to the 17th European Neuroscience Association Meeting «The role of glia in synapse development, synapse loss and synaptic plasticity» (11-14/09, Castle Ringberg, Tegernsee, Bavaria, Germany)
3. 1996 — 33th Workshop on Inner Ear Biology (01-03/09, Utrecht, Netherlands)
4. 1998 — 28th Annual Meeting of the Society for Neuroscience (7-12/11, Los Angeles, CA, USA)
5. 2002 — EFNS 2002 (26-29/10, Wien, Austria)
6. 2003 — Internet & Pédagogie médicale 2003 (11-12/12, Marseille, France)
7. 2004 — 6th European Congress on Epileptology (30/05-03/06, Vienna, Austria)
8. 2004 — Workshop on "Ion channels, toxins and scorpion venoms from China and South Africa" (05/03, Hasselt University, Belgium)
9. 2006 — Programa Bicentenario de Ciencia y Tecnología (04-07/11, Universidad de Concepción, Concepción, Chile)
10. 2012 — Seminar Max Delbrück Center for Molecular Medicine, Berlin, Germany
11. 2012 — Seminar Université Libre de Bruxelles, Brussels, Belgium
12. 2013 — Symposium of Neuropsychopharmacology (10-12/04, University of Paranga, Maringa, Brazil)
13. 2014 — Conferentie "Erkenning van diploma's" (14/3, Benelux parlement, Eupen, Belgium)
14. 2015 — Conférence "Le propre de l'homme" (21/5, Lion's club, Hannut, Belgium)
15. 2016 — Conference "Higher education quality assurance evolution in Flanders" (24/03, colloque ImpeQes, Mons, Belgium)
16. 2019 — Conférence "L'excitotoxicité et l'apoptose dans les maladies neurologiques avec atteinte motrice" (18/04, Mini-symposium "Les enjeux sanitaires de la toxicité du manioc au Sud-Kivu, Bukavu, DR Congo)
17. 2019 — Ondernemen in Afrika - UHasselt (29/11, OVO congres, Duurzaam ondernemen in Afrika, Brussels, Belgium)
18. 2022 — Masterclass « Academic capacity building in Africa and Morocco: Which impact for

the society? » (October 2022, Erasmus Scientific Days, Marrakech, Morocco)

19. 2023 — Invited conference « Pedagogía activa en las ciencias de la vida: el caso de la Universidad de Hasselt, Bélgica » (February 2023, Universidad Simon i Patiño, Cochabamba, Bolivia)
20. 2024 — Lecture at Symposium « Experimental neurotoxicity of thiocyanate and cyanate in the perspective of gonzo » (October 2024, Bukavu, DR Congo)

Poster and oral communications

1. 1988 — Third International Symposium on Neurobiology «CNS development and regeneration» (28-29/04, Fondation Médicale Reine Elisabeth, Bruxelles)
2. 1992 — International Meetings on Biology «Neuronal cell death and repair» (25-27/05, Fundación Juan March, Madrid, España)
3. 1992 — 9th meeting (14-18/06, International Society for Developmental Neuroscience, La Grande Motte, France)
4. 1993 — First Forum of Young European Researchers (18-23/06, ULg, Liège)
5. 1995 — European Science Foundation «Molecular Neurobiology - Receptors: Regulation, Function and Signal Transduction» (22-27/04, Acquafredda di Maratea, Italia)
6. 1999 — 29th Annual Meeting of the Society for Neuroscience (23-28/10, Miami Beach, FL, USA)
7. 2000 — 2nd Meeting of the Federation of European Neuroscience Societies, FENS (24-28/06, Brighton, UK)
8. 2000 — 30rd Annual Meeting of the Society for Neuroscience (04-09/11, New Orleans, LA, USA)
9. 2000 — Annual Meeting of the American Epilepsy Society (03-06/12, Los Angeles, CA, USA)
10. 2001 — Symposium on: "Neuron-Glia Interactions: from physiology to behavior" (05/10, Collège de France, Paris)
11. 2001 — 31st Annual Meeting of the Society for Neuroscience (10-15/11, San Diego, CA, USA)
12. 2002 — Federation of European Neuroscience Societies Forum 2002 (13-17/07, Paris, France)
13. 2003 — Apoptosis 2003 — From signaling pathways to therapeutic tools (29/01-01/02, Luxembourg)
14. 2003 — 33rd Annual Meeting of the Society for Neuroscience (8-13/11, New Orleans, LA, USA)

- 15.2004 — Federation of European Neuroscience Societies Forum 2004 (10-14/07, Lisboa, Portugal)
- 16.2004 — EURON PhD days (15-17/09, Homburg/Saar, Germany)
- 17.2005 — Colloque "Canaux ioniques" (2-5/10, Nantes, France)
- 18.2005 — 35th Meeting of the Society for Neuroscience (12-16/11, Washington, DC, USA)
- 19.2005 — American Epilepsy Society (05/12, Washington, DC, USA)
- 20.2006 — Federation of European Neuroscience Societies Forum 2006 (8-12/07, Vienna, Austria)
- 21.2006 — EURON PhD days (21-22/09, Maastricht, Netherlands)
- 22.2007 — 8th European meeting on Glial Cells in Health & Disease (04-08/09, London, UK)
- 23.2007 — EURON PhD days (13-14/09, Louvain-la-Neuve, Belgium)
- 24.2007 — Congo@UHasselt (27/10, Diepenbeek, Belgium)
- 25.2007 — 37th Meeting of the Society for Neuroscience (03-07/11, San Diego, CA, USA)
- 26.2008 — Federation of European Neuroscience Societies Forum 2008 (12-15/07/08, Geneva, Switzerland)
- 27.2008 — EURON PhD days (18-19/09/08, Aachen, Germany)
- 28.2009 — 2nd Meeting of IAP Network P6/31 (07/01, KULeuven, Belgium)
- 29.2009 — 9th European meeting on Glial Cells in Health & Disease (08-12/09, Paris, France)
- 30.2009 — EURON PhD days (01-02/10, Nijmegen, Netherlands)
- 31.2009 — 39th Meeting of the Society for Neuroscience (17-21/10, Chicago, IL, USA)
- 32.2009 — 3rd Meeting of IAP Network P6/31 (12/12, ULg, Belgium)
- 33.2010 — 18th Biennial Meeting of the International Society for Developmental Neuroscience (06-09/06, Estoril, Portugal)
- 34.2010 — 7th FENS Forum of European Neuroscience (03-07/07, Amsterdam, The Netherlands)
- 35.2011 — 8th IBRO World Congress of Neuroscience (14-18/07, Florence, Italy)
- 36.2011 — 15th EURON PhD Days (22-23/09, Bonn, Germany)
- 37.2011 — 41st Meeting of the Society for Neuroscience (12-16/11, Washington, DC, USA)
- 38.2011 — Meeting of the IAP Network P6/31 (16/12, Ghent, Belgium)
- 39.2012 — 8th FENS Forum of European Neuroscience (14-18/07, Barcelona, Spain)
- 40.2012 — EURON PhD Days (27-28/09, Maastricht, The Netherlands)
- 41.2013 — Meeting of the Society for Neuroscience (8-13/11, San Diego, CA, USA)
- 42.2014 — ISDN Development, functions and disorders of the nervous system (19-24/07, Montreal, Canada)
- 43.2015 — Meeting of the Society for Neuroscience (17-21/10, Chicago, USA)
- 44.2016 — Meeting of the International Society for Developmental Neuroscience (11-14/05, Antibes, France)
- 45.2017 — 13th European Meeting on Glial Cells in Health and Disease (8-11/07, Edinburgh, UK)
- 46.2017 — Meeting of the Society for Neuroscience (11-15/11, Washington, USA)
- 47.2019 — Meeting of the Society for Neuroscience (19-23/10, Chicago, USA)
- 48.2022 — Webinar of the Centre de soutien à l'enseignement of the University of Lausanne (Online, Lausanne, Switzerland)
- 49.2022 — ACFAS Congres (Online, Montreal, Canada)
- 50.2022 — Meeting SSRE at the Semaine Internationale de l'Education et de la Formation (SIEF, 12-16/09, Lausanne, Switzerland)
- 51.2025 — 36e colloque de l'ADMEE-Europe (Unil, 8-10-01, campus Belval, Luxembourg)

Research contracts

As principal investigator

1. 1999 — Fonds Spéciaux de la Recherche Ulg (J.-M. Rigo, B. Malgrange, S. Belachew)
2. 2003 — The glycine and its ionotropic receptor: developmental signals for the central nervous system?, Marie Curie 3-month fellowship for J.-M. Mangin (coordinator: H. Steinbush, EURON), contract number QLK6-CT-2000-60042, salary plus 1200 EUR benchfee (J.-M. Rigo)
3. 2003 — Rôles physiologiques et mécanismes d'activation des récepteurs embryonnaires à la glycine, Accord INSERM.C.G.R.I.-F.N.R.S., référence 03/003, crédit de voyage (J.-M. Rigo, P. Legendre)
4. 2004 — Rôles physiologiques et mécanismes d'activation des récepteurs embryonnaires à la glycine, Crédit aux chercheurs F.N.R.S., référence 1.5.044.04, 10000 EUR (J.-M. Rigo)
5. 2004 — Rôles physiologiques et mécanismes d'activation des récepteurs embryonnaires à la

- glycine, Fonds spéciaux de la Recherche Ulg 2003, 10000 EUR (J.-M. Rigo)
6. 2004 — UCB Pharma-UHasselt contractonderzoek (Kv and ACCN channel characterization), 2004, 14400 EUR (J.-M. Rigo)
 7. 2005 — Rôles physiologiques et mécanismes d'activation des récepteurs embryonnaires à la glycine, Accord INSERM.C.G.R.I.-F.N.R.S., crédit de voyage (J.-M. Rigo, S. Belachew, P. Legendre)
 8. 2006 — Niet-synaptische functies van glycine en van zijn embryonale receptor: een signaal voor zowel het immuunsysteem als het zenuwstelsel?, Fonds voor Wetenschappelijke Onderzoek (FWO), Krediet aan navorsers, 12000 EUR (J.-M. Rigo)
 9. 2006 — Immature glycine receptors: their role in shaping synaptic plasticity and in developmental processes and their regulation by intracellular transduction mechanisms, Bijzonder Onderzoeksfonds (BOF) Bilaterale wetenschappelijke samenwerking Vlaanderen-Chili, 25000 EUR (J.-M. Rigo, L. Aguayo)
 10. 2006 — Glycine: a signalling molecule beyond neurotransmission, Bilaterale samenwerking INSERM-Ministerie van de Vlaamse Gemeenschap, reiskrediet (J.-M. Rigo, P. Legendre)
 11. 2006 — Inhibitory neurotransmitters as communication signals between the nervous and the immune systems, BOF Groot Project, 575000 EUR (J.-M. Rigo, P. Stinissen, M. Ameloot, N. Hellings, J. Hendriks, I. Lambrichts, J. Robben, I. Smets, P. Steels, M. vandeVen)
 12. 2006 — Inhibitory neurotransmitters as communication signals between the nervous and the immune systems, EURON Marie Curie Early Stage Training (MC-EST) 3-year fellowship (coordinator: H. Steinbusch), salary and benchfee (J.-M. Rigo)
 13. 2007 — Synaptic and extra-synaptic ligand-gated ion channels in the hippocampus, SLS tUL doctoraatsbeurs, salary (J.-M. Rigo, G. Hoogland, E. Beuls)
 14. 2007 — De rol van de inhiberende neurotransmitters GABA en glycine in de ontwikkelings- en herstelprocessen van oligodendrogiale cellen en hun voorlopers, FWO, 138000 EUR (J.-M. Rigo, M. Ameloot, I. Smets, M. vandeVen)
 15. 2007 — Renforcement des capacités d'enseignement à la faculté de médecine de l'Université de Kinshasa, VLIR-UOS microprojet RDC, 96855 EUR (J.-M. Rigo, P. Steels, F. Verdonck, S. Mampunza)
 16. 2008 — Glycine: a signalling molecule beyond neurotransmission, crédit de voyage (J.-M. Rigo, P. Legendre)
 17. 2009 — Glycine system and microglia in normal brain and Multiple Sclerosis, TOURNESOL, reiskrediet (J.-M. Rigo, P. Legendre)
 18. 2009 — tUL-impulsfinanciering fase II, deel van het 'Life Sciences' luik, 1625000 EUR (woordvoerder strategisch programma 2 van BIOMED)
 19. 2009 — Enseignement en sciences médicales de base : formation des maîtres, évaluation standardisée et mise en place d'un réseau de compétences et d'enseignement à distance, VLIR-UOS projet RDC, 188423 EUR (J.-M. Rigo, P. Steels, F. Verdonck, J.-L. Gilles, S. Mampunza)
 20. 2011 — The multiple faces of microglia in brain diseases. Phenotyping microglia in the acute-chronic switch of autoimmune, traumatic and excitability disorders, BOF Groot Project, 544000 EUR (J.-M. Rigo, N. Hellings, S. Hendrix)
 21. 2013 — Outils pour l'apprentissage semi-autonome dirigé de la biologie cellulaire à destination d'étudiants du premier cycle en sciences de la vie, Fonds Prince Philippe - Développement commun de matériel didactique, 2500 EUR (J.-M. Rigo UHasselt & M. Thiry Ulg)
 22. 2014 — Tonische receptor activatie in de excitatie/inhibitie balans tijdens de chronische fase van epilepsie, BIOMED structurele financiering, postdoc mandaat 1 jaar Ann Swijsen
 23. 2016 — Inter University Cooperation VLIR-UOS program with the university Moulay Ismail (UMI, Meknes, Morocco), North coordination of the program and of project 1 (institutional strengthening)
 24. 2017 — Intra-Africa academic mobility scheme (MOUNAF), Erasmus+ project (Université Moulay Ismail, Maroc, & UHasselt)
 25. 2018 — Subcellular localisation and activity of GlyR α 2, a glycine receptor subtype involved in brain development disorders, (J.-M. Rigo & B. Brône, UHasselt, P. Legendre, INSERM)
 26. 2019 — Co-construction Nord-Sud d'un réseau d'expertises pour l'utilisation des nouvelles technologies en évaluation des apprentissages et des enseignements (CORETEV), project funded by the Erasmus+ Capacity Building in the field of Higher Education program (J.-M. Rigo, promoteur, university of Iasi, Romania, universities of El Jadida, Marrakech, Meknes and Ifran, Morocco)
 27. 2020 — Development of a model to improve the research and innovation management at Peru-

- vian public universities, JOINT project funded by VLIR-UOS (promoter replacing Ann Peters, original promoter, collaboration with UNALM, La Molina, and UNSCH, Huamanga, Peru)
- 28.2021 — Short term mobility at the HEP Vaud, 3 months funded by the Special Funds of Hasselt University, promotor (HEP Vaud, Lausanne, Switzerland)
 - 29.2022 — Short term mobility at the HEP Vaud, 5 months funded by the Swiss National Funds, co-promotor (Jean-Luc Gilles, promotor, HEP Vaud, Lausanne, Switzerland)
 - 30.2022 — Challenges and opportunities for a sustainable socio-ecology in the Katangese Copperbelt Area, IUC project funded by VLIR-UOS in UNILU (Lubumbashi, DR Congo), Virginie Bito, coordinator of the program, J.-M. Rigo, responsible for project 6 (transversal capacity building)
 - 31.2022 — Mastering ICT tools by the University of Kisangani, SI project funded by VLIR-UOS in UNIKIS, promotor (Kisangani, RD Congo).
 - 32.2023 — Qualitative training for adult student-workers in Cochabamba using innovative and interactive virtual and hybrid teaching methods, SI project funded by VLIR-UOS in USIP, promotor (Cochabamba, Bolivia).

As co-investigator

1. 1997 — Physiologie cellulaire des interactions neuro-n-gliales, de l'oligodendrogenèse et du versant neuronal de l'audition, Fonds spéciaux de la Recherche Ulg, 1996 (G. Moonen, J.-M. Rigo, P. Coucke, S. Belachew)
2. 1998 — Convention de Recherches UCB Pharma-ULg (laboratoire du Prof. G. Moonen)
3. 1998 — Crédit aux chercheurs F.N.R.S. (P. Lep-rince, J.-M. Rigo, B. Rogister)
4. 2001 — Fonds Spéciaux de la Recherche Ulg (B. Malgrange, S. Belachew, P. Lefebvre, P. Leprince, D. Martin, J.-M. Rigo)
5. 2002 — Fonds Spéciaux de la Recherche Ulg (P. Leprince, J.-M. Rigo, B. Rogister)
6. 2002 — Cellular and molecular strategies in the regeneration of the nervous system, Fondation Médicale Reine Elisabeth, 25000 EUR (G. Moonen, S. Belachew, P. Leprince, B. Malgrange, J.-M. Rigo, B. Rogister)
7. 2004 — La microscopie confocale : un outil indispensable en neurosciences, Fonds spéciaux de la Recherche Ulg 2003, 15000 EUR (B. Malgrange, J.-M. Rigo, B. Rogister, T. Grisar, P. Leprince, L. Bettendorf)
8. 2004 — Etude du rôle fonctionnel des récepteurs aux neurotransmetteurs dans les cellules oligodendrogiales, Fonds spéciaux de la Recherche Ulg 2003, 15000 EUR (S. Belachew, J.-M. Rigo)
9. 2007 — Molecular and cellular mechanisms of electrical excitability, Interuniversity Attraction Pole Phase VI, 400000 EUR for UHasselt (K. Sipido, J. Tytgat, E. Godaux, V. Seutin, D. Snyders, L. Leybaert, J.-M. Rigo)
- 10.2010 — Diffusie en clustering van isovormen van de glycinereceptor in het plasmamembraan van levende cellen: een micro- en nanoscopische studie, BOF UHasselt (M. Ameloot, J.-M. Rigo, J. Hofkens)
- 11.2011 — InterUniversity Cooperation program, Université de Kisangani, RD Congo, VLIR-UOS, 3.5M€ for UHasselt (coordination project 3, institutional strengthening)
- 12.2012 — The role of microglia during the development of neuronal networks in the embryonic nervous system, TOURNESOL, reiskrediet (B. Brône, H. Lecorronc, J.-M. Rigo, P. Legendre)
- 13.2012 — Molecular and cellular mechanisms of electrical excitability in the heart and central nervous, Interuniversity Attraction Pole Phase VII, 500000 EUR for UHasselt (K. Sipido, J. Tytgat, V. Seutin, J.-M. Rigo, S. Schiffmann)
- 14.2013 — Embryonic microglia as the 'missing link' in the development of neuropsychiatric disorders, FWO project, 320000 EUR (B. Brône, J.-M. Rigo, A. Gaertner, P. Legendre)
- 15.2016 — Docimo+, Commission for Technology and Innovation, Switzerland (J.-L. Gilles HEP Lausanne, J.-M. Rigo UHasselt)
- 16.2017 — Molecular control of microglial motility by P27, doctoral grant Jolien Beeken, BOF UHasselt (L. Nguyen, B. Brône, J.-M. Rigo)
- 17.2018 — A course for innovative teaching and research practice for teacher trainers in Cambodia, South Initiative funded by VLIR-UOS (S. Soth, W. Hustinx, S. Janssen, J.-M. Rigo)
- 18.2019-2020 — The glycine receptor alpha2 is an unexplored target to treat psychosis, FWO krediet aan navorser (B. Brône, J.-M. Rigo)
- 19.2019 — Microglia, FWO krediet aan navorser (B. Brône, J.-M. Rigo)
- 20.2020 — SIR-CORETEV, research conference on research in evaluation in training, FNS Switzerland (J.-L. Gilles, J.-M. Rigo as co-promotor)

- 21.2022 — Research stay of 6 months funded by FNS Switzerland (J.-L. Gilles, J.-M. Rigo as co-promotor)
- 22.2022 — SIR-CORETEV-2022, research conference on research in evaluation in training, FNS Switzerland (J.-L. Gilles, J.-M. Rigo as co-promotor)
- 23.2023-2025 — Innovatief Onderwijsproject (IOP), SES: Certainty-based marking, funded by UHasselt (A. Agten, J.-M. Rigo as co-promotor)
- 24.2024 — General^oIEF, research conference on research in evaluation in training, FNS Switzerland (J.-L. Gilles, P. Gay, J.-M. Rigo as co-promotor)

Research awards & fellowships

1. 1990 — Fellowship of the Fondation Léon Frédéricq to fund a training research stay at Heidelberg University (Germany)
2. 2002 — CNRS-funded researcher (poste vert), University Pierre & Marie Curie (Paris, France)
3. 2007-2010 — Invited Professor at the Faculty of Medicine of the University of Liège (Belgium)
4. 2021-2022 — Invited Professor at the HEP Vaud (Lausanne, Switzerland)

Teaching activities

Secondary school

1. 1987-1988 — Secondary school teacher of Physics in 4th year (Institut Saint-Laurent, Liège, Belgium)

Undergraduate level

At ULiège

1. 1988-2000 — Supervision des permanences, organisation des répétitions et des travaux dirigés et nombreuses suppléances pour les cours de Physiologie générale et de Physiologie humaine du Professeur Moonen (ULg)
2. 1996-2004 — Suppléances pour des cours libres de 3ème cycle (ULg)
3. 2000-2002 — Organisation des travaux dirigés pour le cours de Physiologie humaine du Professeur Grisar (2ème et 3ème candidatures en Médecine, ULg)

4. 2001-2004 — Titulaire du cours « Electrophysiologie (partim neurones) » 15h (option au DES en Sciences biomédicales, orientation Neurosciences, ULg)
5. 2001-2004 — Titulaire du cours « Techniques électrophysiologiques » 0h + 20h (obligatoire aux DEA et DES en Sciences biomédicales, orientation Neurosciences, ULg)
6. 2001-2004 — Suppléance pour le module "Apprentissage" organisé aux 2ème et 3ème semestres des candidatures de la Faculté de Médecine (médecine, dentisterie, kinésithérapie, pharmacie et sciences biomédicales, ULg)

At UHasselt

See [web page JMRigo @ UHasselt](#)

Post-graduate level

1. 2007 — Co-organisator of a postgraduate course Cellular and molecular electrophysiology in the frame of the EURON network (collaboration UHasselt, ULg, ULB)
2. 2007 — 9de Wetenschappelijke zitting Milieu & Gezondheid Geuren en smaken (08/12, Virga Jesseziekenhuis, Hasselt, Belgium)
3. 2008 — Summer course Recent progress in central nervous system receptors: functions and applications (14-18/01, Universidad de Concepcion, Chile)
4. 2025 — Module « Evaluation » du Certificat de Pédagogique Universitaire (janvier, Université de Lubumbashi, RD Congo)

Master students' theses

At ULiège

1. 1988-1989 — Co-direction du mémoire de fin d'études en Education Physique de Christian BIEMAR (ULg, Liège)
2. 1989-1990 — Direction du mémoire de fin d'études en Assistant de Laboratoire d'Annick COEMANS (Institut d'Enseignement Supérieur Saint-Laurent, Section Chimie Clinique, Liège)
3. 1994-1995 — Direction du mémoire de fin d'études en Assistant de Laboratoire d'Abdelilah LABIB (Institut d'Enseignement Supérieur Saint-Laurent, Section Chimie Clinique, Liège)
4. 1996-1997 — Direction du mémoire de fin d'études en Assistant de Laboratoire de Karen

TUCKER (Institut d'Enseignement Supérieur Saint-Laurent, Section Chimie Clinique, Liège)

5. 1998-1999 — Supervision du mémoire de fin d'études en Biologie animale de Laurent NGUYEN (ULg, Liège)
6. 2001-2002 — Supervision du mémoire de fin d'études en Biologie animale de Catherine GOUNARD (ULg, Liège)
7. 2003-2004 — Supervision du mémoire de fin d'études en Sciences Biomédicales de Franz WAUTIER (ULg, Liège)

At UHasselt

see [web page JMRigo @ UHasselt](#)

PhD's supervision

Defended PhD's as main promoter

1. 1999-2003 — Laurent NGUYEN (ULiège)
2. 2002-2005 — Grégory HANS (ULiège)
3. 2004-2008 — Roeland BUCKINX (UHasselt)
4. 2004-2010 — Jimmy VAN DEN EYNDEN (UHasselt)
5. 2006-2011 — Ann SWIJSEN (UHasselt)
6. 2008-2013 — Ariel AVILA (UHasselt & ULiège)
7. 2009-2013 — Nina SWINNEN (UHasselt)
8. 2013-2021 — Joris COMHAIR (UHasselt)
9. 2017-2022 — Marius BAGUMA (UHasselt)

Defended PhD's as co-promoter

1. 2004-2009 — Daniel JANSSEN (UHasselt)
2. 2006-2011 — Nick SMISDOM (UHasselt)
3. 2006-2011 — Sofie CARMANS (UHasselt)
4. 2010-2014 — Kristof NOTELAERS (UHasselt)
5. 2010-2015 — Ben DE CLERCQ (UHasselt)
6. 2011-2017 — Sophie SMOLDERS (UHasselt)
7. 2012-2016 — Giovanni MORELLI (UHasselt)
8. 2013-2017 — Silke SMOLDERS (UHasselt)
9. 2014-2018 — Lena FONT PEREZ (Universidad del Norte, Cuba)
10. 2016-2022 — Jens DEVOGHT (UHasselt)
11. 2017-2022 — Jolien BEEKEN (UHasselt)
12. 2016-2023 — Sofie KESSELS (UHasselt)
13. 2020-2024 — Chloë TRIPPAERS (UHasselt)

PhD's in preparation

1. 2020- — co-promoter of Yana VELLA (UHasselt)

2. 2021- — co-promoter of Lisa BERDEN (UHasselt)
3. 2022- — co-promoter of Ghislain MALHESHE BALEMBA (ULB)

PhD's jury

International as member

1. 2002 — Alice GUYON (University Paris 6, France)
2. 2005 — Emilie MULLER (University Paris 6, France)
3. 2012 — Jochen DE VRY (University of Maastricht, Netherlands)
4. 2013 — Chiara RIGATO (University Paris 6, France)
5. 2013 — Mihaela BACALUM (University of Bucharest, Romania)
6. 2017 — Monara ANGELIM (University Paris 6, France)
7. 2021 — Talakad NARASAPPA SATHYAPRABHA (University of Maastricht, Netherlands)
8. 2022 — Thomas VERLINDEN (University of Maastricht, Netherlands)
9. 2023 — Ensiyeh Ghasemian SHIRVAN (Ruhr University Bochum, Germany)
10. 2024 — Lieve VAN VEGGEL (University of Maastricht, Netherlands)

National as member

1. 2004 — Stéphane BOVERIE (ULiège)
2. 2005 — Antoine ADAMANTIDIS (ULiège)
3. 2005 — François LALLEMEND (ULiège)
4. 2006 — Geneviève PHILIPPE (ULiège)
5. 2007 — Marie GENLAIN (UMons)
6. 2008 — Joëlle NSIMIRE CHABWINE (KU-Leuven)
7. 2009 — Dries BRAEKEN (KULeuven)
8. 2010 — Kurt WINTERS (KULeuven)
9. 2010 — Cédric LAMY (ULiège)
10. 2011 — Annelies VAN DER HAEGEN (KU-Leuven)
11. 2011 — Thomas VANDENDRIESSCHE (KU-Leuven)
12. 2011 — Vanessa ERCULISSE (UMons)
13. 2012 — Marijke STEVENS (KULeuven)
14. 2015 — Laurie LAMBOT (ULB)
15. 2016 — Fabian PHILIPPART (ULiège)
16. 2017 — Julien ECHTERBILLE (ULiège)
17. 2021 — Geoffrey DESTREEL (ULiège)

Own institution as member (UHasselt)

1. 2006 — Marjan MOREELS
2. 2006 — Joris VANDERLOCHT
3. 2008 — Koen ROLLING
4. 2009 — Helena SLAETS
5. 2011 — Inge SMOLDERS
6. 2011 — Katherine NELISSEN
7. 2013 — Sofie NELISSEN
8. 2013 — Jeroen BOGIE
9. 2013 — Pia VIDAL
10. 2014 — Ingrid MEEEX
11. 2014 — Valérie PENNEMANS
12. 2016 — Kathleen SANEN
13. 2016 — Dearbhaile DOOLEY
14. 2017 — Jacobine KUIJLAARS
15. 2018 — Dorien DELUYKER
16. 2019 — Jirka COPS
17. 2024 — Inge DIERICK

Own institution as president (UHasselt)

1. 2008 — Véronique VERMEEREN
2. 2010 — Evi THEUNISSEN
3. 2010 — Kim PANNEMANS
4. 2010 — Remco KONINCKX
5. 2011 — Eve PEERAER
6. 2011 — Judith FRAUSSEN
7. 2011 — Nele JACOBS
8. 2011 — Tom BROEKMANS
9. 2011 — Tom STRUYS
10. 2011 — Wendy MARTENS
11. 2012 — Stan POLITIS
12. 2013 — Faridi NARAIN
13. 2023 — Mélanie LOIX
14. 2024 — Rut MAZON CABRERA