Curriculum Vitae: Erik Storkebaum

Place and date of birth: Lier, Belgium, January 21, 1977
Office: Molecular Neurobiology Laboratory
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Education and positions

12/2022-now	Scientific Director, Donders Center for Neuroscience
2017-2022	Chair, Department of Molecular Neurobiology, Donders Institute for Brain, Cognition and Behaviour and Radboud University, Nijmegen, The Netherlands
2010-2018	Independent Research Group Leader, Max Planck Institute for Molecular Biomedicine, Münster, Germany
2005-2010	Postdoctoral research in the Laboratory for Developmental Genetics, VIB, Leuven, Belgium (headed by Prof. P. Callaerts): "*Drosophila melanogaster* as a genetic model organism to unravel the molecular mechanisms of neurodegeneration".
28.1.2005	Degree of Doctor in Pharmaceutical Sciences
2000-2005	PhD-program at the Vesalius Research Center, University of Leuven, Belgium (promoter Prof. P. Carmeliet): "Role and therapeutic potential of vascular endothelial growth factor in motor neuron degeneration: a study in transgenic mice and rats."
1999-2000	Undergraduate thesis, Division of Biochemistry, University of Leuven, Belgium: "Molecular biological analysis of the regulation of transcription by androgen-responsive enhancers."
1995-2000	Pharmaceutical sciences, University of Leuven, Belgium (magna cum laude)

International trainings

2005	Training in pharmacology at the university of Maastricht (The Netherlands) from July to September 2005 under the supervision of Prof. J. De Mey (Department of Pharmacology)
2004	Training in stereology at the university of Maastricht (The Netherlands) from June to August 2004 under the supervision of Prof. C. Schmitz (Department of Psychiatry and Neuropsychology, Division of Cellular Neuroscience).

Academic Appointments

2022-now	Board member of the Donders Institute for Brain, Cognition and Behaviour
2020-now	Full Professor, Radboud University, Nijmegen, The Netherlands
2020-now	Board member of the Donders Center for Neuroscience
2017-2020	Associate Professor, Radboud University, Nijmegen, The Netherlands
2017-now	Faculty Member of the Donders Graduate School, Nijmegen, The Netherlands
2010-2018	Faculty Member of the CIM/IMPRS Graduate School, Münster, Germany
2005-2011	Postdoctoral fellow "Fund for Scientific Research - Flanders (Belgium)" (FWO)
2000-2004	Predoctoral fellow "Fund for Scientific Research - Flanders (Belgium)" (FWO)

Awards and Honors

2017	ERC consolidator award
2010	Frick Foundation Award for ALS research.
2005	Galenus prize (Belgium), together with Diether Lambrechts, awarded for our preclinical pharmacological studies on the therapeutic potential of VEGF for ALS.
2005	Baron Simonart prize, awarded for my PhD thesis: "Role and therapeutic potential of VEGF in motor neuron degeneration: a study in transgenic mice and rats."
2001	Pharmaleuven prize (best undergraduate thesis), University of Leuven, Belgium.

Research grants

2023-2026 NWO-ENW-M grant (360,000€)
2022-2025 Muscular Dystrophy Association (MDA) grant (300,000$)
2022-2023 Interdisciplinary Research Platform Voucher, Science Faculty, Radboud University (50,000€)
2022-2026 Prinses Beatrix Spierfonds grant (280,000€)
2022-2024 Dutch ALS Association grant (167,000€)
2021-2024 AFM-Telethon grant together with Luc Dupuis: 152,000€ (45,000€ for my lab)
2021-2024 ARSLA grant together with Luc Dupuis: 192,000€ (45,000€ for my lab)
2020-2024 Radala Foundation for ALS Research: Advanced Research Grant (200,000 CHF)
2018-2024 ERC consolidator grant (2,000,000€)
2018-2021 Coordinator of a JPND network grant: 1,832,000€ (341,000€ for my lab)
2018-2021 Partner in a JPND network grant: 224,000€ for my lab
2017-2020 Muscular Dystrophy Association (MDA) grant: 291,000$
2017-2020 eRARE-3 grant coordinated by Eran Hornstein: 215,000€ for my lab
2015-2018 Core lab funding from Max Planck Society: 1,085,000€
2015-2017 AFM-Telethon grant together with Luc Dupuis and Clotilde Lagier-Tourenne: 125,000€ (32,000€ for my lab)
2012-2015 Minna-James-Heineman-Stiftung Minerva grant together with Eran Hornstein: 240,000€ (120,000€ for my lab)
2011-2015 Project in SFB 629 network grant from DFG: 203,200€
2010-2012 Frick Foundation Award 2010: 100,000 CHF
2010-2015 Core lab funding from the state North Rhine-Westphalia: 1,900,000€
2009-2010 ABMM grant: 20,000€
2008-2009 ABMM grant: 20,000€
2007 Krediet aan Navorser (FWO-Flanders): 25,000€
2006-2007 ABMM grant: 20,000€

Fellowships to students/postdocs in my lab

2023-2025 Postdoc.Mobility Fellowship from Swiss National Science Foundation to Maria Landinez Macias (for 2 years).
2012-2014 Von Humbold postdoc fellowship to Moushami Mallik (position + 9.6k€ consumables/year for two years)
2011-2014 Fellowship from 'Studienstiftung des Deutschen Volkes' for graduate studies of Oliver Sendscheid (for three years)
2011-2013 Fellowship from the CEDAD graduate school to Julia Bussmann (position + 15k€ consumables/year for three years)
2010-2013 Fellowship from the CEDAD graduate school to Marie Frickenhaus (position + 15k€ consumables/year for three years)

Publications

Total: 41; w.o. PhD supervisor: 26; first author: 11; corresponding author: 14; total citations: 7476; H-index: 28; on average ~182 citations/publication (source: Google Scholar).

1. Burgess RW*, Storkebaum E*. tRNA dysregulation in neurodevelopmental and neurodegenerative diseases. ***Annu Rev Cell Dev Biol***, 2023; doi: 10.1146/annurev-cellbio-021623-124009. *corresponding authors. IF= 11.9.

2. Ignacio B, Dijkstra J, Mora Garcia N, Slot E, van Weijsten M, Storkebaum E[#], Vermeulen M[#], Bonger K. THRONCAT: Efficient metabolic labeling of newly synthesized proteins using a bioorthogonal threonine analog. ***Nature Communications****,* 2023; 14, 3367. https://doi.org/10.1038/s41467-023-39063-7. IF= 17.69. [#]equal contribution.

3. Storkebaum E*, Rosenblum K, Sonenberg N. Messenger RNA translation defects in neurodegenerative diseases. Reply. ***New Engl J Med****,* 2023; 388(22):2110-2111. doi: 10.1056/NEJMc2304387. *corresponding author. IF= 176.1. *Reply to correspondence to the editor.*

4. Storkebaum E*, Rosenblum K, Sonenberg N. Messenger RNA translation defects in neurodegenerative diseases. ***New Engl J Med,*** 2023; 388(11): 1015-30. doi: 10.1056/NEJMra2215795. *corresponding author. IF= 176.1.

5. Megat S, Mora N, Sanogo J, Roman O, Catanese A, Ouali Alami N, Freischmidt A, Mingaj X, De Calbiac H, Muratet F, Dirrig-Grosch S, Dieterle S, van Bakel N, Müller K, Sieverding K, Weishaupt J, Munch Andersen P, Weber M, Neuwirth C, Margelisch M, Sommacal A, van Eijk K, Veldink J, Project Mine ALS Sequencing Consortium, Lautrette G, Couratier P, Camuzat A, Le Ber I, Grassano M, Chio A, Boeckers T, Ludolph A, Roselli F, Yilmazer-Hanke D, Millecamps S[#], Kabashi E[#], Storkebaum E[#], Sellier C[#], Dupuis L[#]. Integrative genetic analysis illuminates ALS heritability and identifies risk genes. ***Nature Communications***, 2023; 14, 342. https://doi.org/10.1038/s41467-022-35724-1. [#]equal contribution. IF= 17.69.

6. Fenckova M, Muha V, Mariappa D, Catinozzi M, Czajewski I, Block, L, Ferenbach A, Storkebaum E, Schenck A, van Aalten D. Intellectual disability-associated disruption of O-GlcNAcylation impairs neuronal development and cognition-related habituation learning in Drosophila. ***PLOS Genetics***, 2022; 18(5): e1010159. doi: 10.1371/journal.pgen.1010159. IF= 6.02.

7. Das S, Zuko A, Thompson R, Storkebaum E, Ignatova Z. Immunoprecipitation assay to quantify the amount of tRNAs associated with their interacting proteins in tissue and cell culture. ***Bio-protocol,*** 2022; 12(04): e4335. doi: 10.21769/BioProtoc.4335. IF= 5.78.

8. Zuko A, Mallik M, Thompson R, Spaulding E, Wienand A, Been M, Tadenev A, van Bakel N, Sijlmans C, Santos L, Bussmann J, Catinozzi M, Das S, Kulshrestha D, Burgess R, Ignatova Z, Storkebaum E. tRNA overexpression rescues peripheral neuropathy caused by mutations in tRNA synthetase. ***Science,*** 2021; 373: 1161-1166. IF= 63.71. *Cover story, with accompanying 'Perspective' in Science. 'Faculty Opinions' recommendation by Benjamin Feldman.*

9. Spaulding E, Hines T, Bais P, Tadenev A, Schneider R, Jewett D, Pattavina B, Pratt S, Morelli K, Stum M, Hill D, Gobet C, Pipis M, Reilly M, Jennings M, Horvath R, Bai Y, Shy M, Alvarez-Castelao, Schuman E, Bogdanik L, Storkebaum E, Burgess R. The integrated stress response contributes to tRNA synthetase-associated peripheral neuropathy. ***Science,*** 2021; 373: 1156-1161. IF= 63.71. *Cover story, with accompanying 'Perspective' in Science.*

10. Catinozzi M, Mallik M, Frickenhaus M, Been M, Sijlmans C, Kulshrestha D, Alexopoulos I, Weitkunat M, Schnorrer F, Storkebaum E. The *Drosophila* FUS ortholog *cabeza* promotes adult founder myoblast selection by Xrp1-dependent regulation of FGF signaling. ***PLOS Genetics***, 2020; 16(4):e1008731. doi: 10.1371/journal.pgen.1008731. IF= 6.02.

11. Muha V, Fenckova M, Ferenbach A, Catinozzi M, Eidhof I, Storkebaum E, Schenck A, van Aalten D. O-GlcNAcase contributes to cognitive function in *Drosophila.* ***Journal of Biological Chemistry***, 2020; 295(26):8636-8646. IF= 5.49.

12. Picchiarelli G, Demestre M, Zuko A, Been M, Higelin J, Dieterlé S, Goy M-A, Mallik M, Sellier C, Scekic-Zahirovic J, Zhang L, Rosenbohm A, Sijlmans C, Aly A, Mersmann S, Sanjuan-Ruiz I, Hübers A, Messaddeq N, Wagner M, van Bakel N, Boutillier A-L, Ludolph A, Lagier-Tourenne C, Boeckers T, Dupuis L, Storkebaum E. FUS-mediated transcriptional regulation of acetylcholine receptor at neuromuscular junctions is compromised in amyotrophic lateral sclerosis. ***Nature Neuroscience,*** 2019; 22(11):1793-1805. IF= 24.88.

13. Moens T, Niccoli T, Wilson K, Atilano M, Birsa N, Gittings L, Holbling B, Dyson M, Thoeng A, Neeves J, Glaria I, Yu L, Bussmann J, Storkebaum E, Pardo M, Choudhary J, Fratta P, Partridge L, Isaacs A. C9orf72 arginine-rich dipeptide proteins interact with ribosomal proteins in vivo to induce a toxic translational arrest that is rescued by eIF1A. ***Acta Neuropathologica*** 2019; 137(3):487-500. IF= 21.53.

14. Mallik M, Catinozzi M, Clemens H, Zhang L, Wagner M, Bussmann J, Bittern J, Mersmann S, Klämbt C, Drexler H, Huynen M, Vaquerizas J, Storkebaum E. Xrp1 genetically interacts with the ALS-associated *FUS* ortholog *caz* and mediates its toxicity. ***Journal of Cell Biology*** 2018, 217(11):3947-3964. IF= 10.54. *Cover story.*

15. Rode S, Ohm H, Anhäuser L, Wagner M, Rosing M, Deng X, Sin O, Leidel S, Storkebaum E, Rentmeister A, Zhu S, Rumpf S. Differential requirement for translation initiation factor pathways during ecdysone-dependent neuronal remodeling in Drosophila. ***Cell Reports*** 2018, 24(9):2287-2299. IF= 10.00.

16. Naumann M, Pal A, Goswami A, Lojewski X, Japtok J, Vehlow A, Naujock M, Günther R, Jin M, Stanslowsky N, Reinhardt P, Sterneckert J, Frickenhaus M, Pan-Montojo F, Storkebaum E, Poser I, Freischmidt A, Weishaupt J, Holzmann K, Troost D, Ludolph A, Boeckers T, Liebau S, Petri S, Cordes N, Hyman A, Wegner F, Grill S, Weis J, Storch A, Hermann A. Impaired DNA damage response signaling by FUS-NLS mutations leads to neurodegeneration and aggregation formation. ***Nature Communications*** 2018, 9(1):335. DOI: 10.1038/s41467-017-02299-1. IF= 17.69.

17. Scekic-Zahirovic J, El Oussini H, Mersmann S, Drenner K, Wagner M, Sun Y, Allmeroth K, Dieterlé S, Sinniger J, Dirrig-Grosch S, René F, Dormann D, Haass C, Ludolph A, Lagier-Tourenne C, Storkebaum E*, Dupuis L*. Motor neuron intrinsic and extrinsic mechanisms contribute to the pathogenesis of *FUS*-associated amyotrophic lateral sclerosis. ***Acta Neuropathologica*** 2017, 133(6): 887-906. *corresponding authors. IF= 21.53.

18. Bussmann J, Storkebaum E. Molecular pathogenesis of peripheral neuropathies: Insights from Drosophila models. ***Current Opinion in Genetics and Development*** 2017; 44: 61-73. IF= 5.58.

19. Erdmann, I, Marter, K, Kobler, O, Niehues, S, Bussmann, J, Müller, A, Abele, J, Storkebaum, E, Thomas, U and Dieterich, D. Cell Type-specific Metabolic Labeling of Proteins with Azidonorleucine in *Drosophila*. ***Bio-protocol*** 2017; 7(14): e2397. DOI: 10.21769/BioProtoc.2397. IF= 5.78.

20. Storkebaum E. Peripheral neuropathy via mutant tRNA synthetases: inhibition of protein translation provides a possible explanation. ***BioEssays*** 2016; 38(9): 818-29. IF= 4.65.

21. Lange C, Storkebaum E, Ruiz de Almodovar C, Dewerchin M, Carmeliet P. Vascular endothelial growth factor: a neurovascular target in neurological diseases. ***Nature Reviews Neurology*** 2016; 12(8): 439-54. IF= 44.71.

22. Scekic-Zahirovic J, Sendscheid O, El Oussini H, Jambeau M, Ying S, Mersmann S, Wagner M, Dieterlé S, Sinniger J, Dirrig-Grosch S, Drenner K, Birling M, Qui J, Zhou Y, Li H, Fu X, Rouaux C, Shelkovnikova T, Witting A, Ludolph A, Kiefer F, Storkebaum E*, Lagier-Tourenne C*, Dupuis L*. Toxic gain of function from mutant FUS protein is crucial to trigger cell autonomous motor neuron loss. ***EMBO Journal*** 2016; 35(10): 1077-97. *corresponding authors. IF=13.78. *With accompanying News & Views and F1000Prime Recommendation from Elizabeth Fisher.*

23. Niehues S, Bussmann J, Steffes G, Erdmann I, Köhrer C, Sun L, Wagner M, Schäfer K, Wang G, Koerdt SN, Stum M, RajBhandary UL, Thomas U, Aberle H, Burgess RW, Yang X-L, Dieterich D, Storkebaum E. Impaired protein translation in *Drosophila* models for Charcot-Marie-Tooth neuropathy caused by mutant tRNA synthetases. ***Nature Communications*** 2015; 6:7520 doi: 10.1038/ncomms8520. IF= 17.69.

24. Erdmann I, Marter K, Kobler O, Niehues S, Abele J, Müller A, Bussmann J, Storkebaum E, Ziv T, Thomas U, Dieterich D. Cell-selective labeling of proteomes in *Drosophila melanogaster.* ***Nature Communications*** 2015; 6:7521 doi: 10.1038/ncomms8521. IF= 17.69.

25. Frickenhaus M, Wagner M, Mallik M, Catinozzi M, Storkebaum E. Highly efficient cell-type-specific gene inactivation reveals a key function for the *Drosophila FUS* homolog *cabeza* in neurons. ***Sci Rep*** 2015; 5: 9107. doi: 10.1038/srep09107. IF= 5.00.

26. Steffes G, Storkebaum E. *Drosophila* as a model for CMT peripheral neuropathy: mutations in tRNA synthetases as an example. In "*Drosophila melanogaster* models of motor neuron disease" Editor: R.J. Cauchi; publisher: Nova Biomedical. 2013; 121-146.

27. Storkebaum E, Quaegebeur A, Vikkula M, Carmeliet P. Cerebrovascular disorders: molecular insights and therapeutic opportunities. ***Nature Neuroscience*** 2011; 14(11): 1390-1397. IF= 24.88.

28. Storkebaum E, Carmeliet P. Paracrine control of vascular innervation in health and disease. ***Acta Physiol.*** 2011; 203(1): 61-86. IF= 5.97.

29. Storkebaum E, Ruiz de Almodovar C, Meens M, Zacchigna S, Mazzone M, Vanhoutte G, Vinckier S, Miskiewicz K, Poesen K, Lambrechts D, Janssen G, Fazzi G, Verstreken P, Haigh J, Schiffers P, Rohrer H,

Van der Linden A, De Mey J, Carmeliet P. Impaired autonomic regulation of resistance arteries in VEGF$^{\partial/\partial}$ mice or upon VEGF-trap delivery. ***Circulation*** 2010; 122: 273-281. IF= 39.92.

30. Ruiz de Almodovar C, Coulon C, Salin PA, Knevels E, Chounlamountri N, Poesen K, Hermans K, Lambrechts D, Van Geyte K, Dhondt J, Dresselaers T, Renaud J, Aragones J, Zacchigna S, Geudens I, Gall D, Stroobants S, Mutin M, Dassonville K, Storkebaum E, Jordan BF, Eriksson U, Moons L, D'Hooge R, Haigh JJ, Belin MF, Schiffmann S, Van Hecke P, Gallez B, Vinckier S, Chédotal A, Honnorat J, Thomasset N, Carmeliet P, Meissirel C. Matrix-binding vascular endothelial growth factor (VEGF) isoforms guide granule cell migration in the cerebellum via VEGF receptor Flk1. ***J. Neurosci.*** 2010; 30(45):15052-15066. IF= 6.71.

31. Storkebaum E, Leitao-Gonçalves R, Godenschwege T, Nangle L, Mejia M, Bosmans I, Ooms T, Jacobs A, Van Dijck P, Yang X-L, Schimmel P, Norga K, Timmerman V, Callaerts P and Jordanova A. Dominant mutations in the tyrosyl-tRNA synthetase gene recapitulate in *Drosophila* features of human Charcot-Marie-Tooth neuropathy. ***Proc. Natl. Acad. Sci. USA*** 2009;106(28): 11782-11787. IF= 12.78.

32. Storkebaum E, Lambrechts D, Dewerchin M, Oh H, Vermeulen K, Van Damme P, Man WY, Demol M, Wyns S, Manka D, Van Den Bosch L., Mertens N, Robberecht W, Conway EM, Collen D, Moons L and Carmeliet P. Treatment of an aggressive form of motoneuron degeneration by intracerebroventricular delivery of recombinant VEGF in ALS animal models. ***Nature Neuroscience*** 2005 Jan;8(1):85-92. IF= 24.88.

33. Van Den Bosch L*, Storkebaum E*, Vleminckx V, Moons L, Vanopdenbosch L, Scheveneels W, Carmeliet P, Robberecht W. Effects of vascular endothelial growth factor (VEGF) on motor neuron degeneration. ***Neurobiol Dis.*** 2004 Oct;17(1):21-8. *equal contribution. IF= 5.23.

34. Storkebaum E, Lambrechts D, Carmeliet P. VEGF: once regarded as a specific angiogenic factor, now implicated in neuroprotection. ***BioEssays*** 2004 Sep;26(9):943-54. IF= 4.65.

35. Lambrechts D, Storkebaum E, Carmeliet P. VEGF: necessary to prevent motoneuron degeneration, sufficient to treat ALS? ***Trends Mol Med.*** 2004 Jun;10(6):275-82. IF= 11.95.

36. Azzouz M, Ralph S, Storkebaum E, Walmsley L, Mitrophanous K, Kingsman S, Carmeliet P, Mazarakis N. VEGF delivery with retrogradely transported lentivector prolongs survival in a mouse ALS model. ***Nature*** 2004 May 27;429(6990):413-7. IF= 69.50.

37. Storkebaum E, Carmeliet P. VEGF: a critical player in neurodegeneration. ***J Clin Invest.*** 2004 Jan;113(1):14-8. IF= 19.46.

38. Lambrechts D, Storkebaum E, Morimoto M, Del-Favero J, Desmet F, Marklund SL, Wyns S, Thijs V, Andersson J, van Marion I, Al-Chalabi A, Bornes S, Musson R, Hansen V, Beckman L, Adolfsson R, Pall HS, Prats H, Vermeire S, Rutgeerts P, Katayama S, Awata T, Leigh N, Lang-Lazdunski L, Dewerchin M, Shaw C, Moons L, Vlietinck R, Morrison KE, Robberecht W, Van Broeckhoven C, Collen D, Andersen PM, Carmeliet P. VEGF is a modifier of amyotrophic lateral sclerosis in mice and humans and protects motoneurons against ischemic death. ***Nature Genetics*** 2003 Aug;34(4):383-94. IF= 41.38.

39. Luttun A, Lupu F, Storkebaum E, Hoylaerts MF, Moons L, Crawley J, Bono F, Poole AR, Tipping P, Herbert JM, Collen D, Carmeliet P. Lack of plasminogen activator inhibitor-1 promotes growth and abnormal matrix remodeling of advanced atherosclerotic plaques in apolipoprotein E-deficient mice. ***Arterioscler Thromb Vasc Biol.*** 2002 Mar 1;22(3):499-505. IF= 8.31.

40. Carmeliet P, Storkebaum E. Vascular and neuronal effects of VEGF in the nervous system: implications for neurological disorders. ***Semin Cell Dev Biol.*** 2002 Feb;13(1):39-53. IF= 6.14.

41. Oosthuyse B, Moons L, Storkebaum E, Beck H, Nuyens D, Brusselmans K, Dorpe JV, Hellings P, Gorselink M, Heymans S, Theilmeier G, Dewerchin M, Laudenbach V, Vermylen P, Raat H, Acker T, Vleminckx V, Van Den Bosch L, Cashman N, Fujisawa H, Drost MR, Sciot R, Bruyninckx F, Hicklin DJ, Ince C, Gressens P, Lupu F, Plate KH, Robberecht W, Herbert JM, Collen D, Carmeliet P. Deletion of the hypoxia-response element in the vascular endothelial growth factor promoter causes motor neuron degeneration. ***Nature Genetics*** 2001 Jun;28(2):131-8. IF= 41.38.

Patents

Erik Storkebaum is inventor on an international patent (PCT/NL2021/050048) on 'tRNA overexpression as a therapeutic approach for CMT neuropathy associated with mutations in tRNA synthetases', which was filed in February 2020 (obtained August 2021, WO2021158100A1).

Invited lectures

1. *"Imbalance between tRNA supply and mRNA codon demand triggers peripheral neuropathy"* Neuroscience School of Advanced Studies (NSAS) Challenge 'Brain Epitranscriptomics – Novel Translational Perspectives', Crans-Montana, Switzerland, 12-16 June 2023.
2. *"Mismatch between tRNA supply and codon demand as a pathogenic mechanism underlying peripheral neuropathy"* Gordon Research Conference 'Translation machinery in health and disease', Galveston, Texas, USA, 19-24 February 2023.
3. *"Contribution of muscle-intrinsic toxicity to NMJ defects in FUS-associated ALS"* Molecular and Cell Biology of the Neuromuscular Synapse, Guarda, Switzerland, 22 September 2022.
4. *"Lost in translation: mismatch between codon demand and tRNA supply in neurodegenerative disease"* University College London (UCL) virtual seminar series for neurodegeneration in flies, 16 June 2022.
5. *"Altered mRNA translation as a pathogenic mechanism across neurodegenerative diseases"* JPND Midterm Symposium, Brussels, Belgium, 28 April 2022.
6. *"tRNA synthetases & peripheral neuropathy: tRNA sequestration as a novel pathogenic mechanism"* Belgian-Dutch Neuromuscular Study Club, virtual meeting, 17 November 2021.
7. *"tRNA sequestration as a pathogenic mechanism underlying peripheral neuropathy"* Closing plenary lecture, FENS Brain Conference 'RNA mechanisms and brain disease', Rungstedgaard, Denmark, 20-23 October 2021.
8. *"tRNA sequestration triggers peripheral neuropathy"* Dutch-Belgian Drosophila Meeting, Leuven, 15 September 2021.
9. *"tRNA synthetases & peripheral neuropathy: is it all about protein synthesis?"* 65th Annual Meeting of the German Society of Neuropathology and Neuroanatomy, virtual meeting, 2 September 2021.
10. *"Towards personalized medicine for peripheral neuropathy"* Keynote lecture, Netherlands Network for Precision Medicine, Nijmegen, 28 November 2019.
11. *"Unraveling molecular mechanisms underlying neuromuscular diseases"* Donders-NIN Day, Nijmegen, 28 November 2019.
12. *"Mouse genetic approaches to decipher the molecular mechanisms of neuromuscular diseases"* TNU Day, Nijmegen, 31 October 2019.
13. *"Molecular mechanisms underlying neuromuscular disorders"* Donders Scientific Advisory Board meeting, Nijmegen, 30 October 2019.
14. *"Drosophila and mouse genetics combined to unravel molecular mechanisms of neuromuscular diseases"* Lecture for alumni of the science faculty, Radboud University, Nijmegen, 14 June 2019.
15. *"Deciphering molecular mechanisms underlying neuromuscular diseases"* Leiden University Medical Center, Leiden, Netherlands, 12 June 2019 (host: prof. Frank Baas).
16. *"Molecular pathogenesis of peripheral neuropathy: from flies over mice to humans?"* Donders Session 'Molecules of behaviour', Donders Institute, Nijmegen, 16 May 2019.
17. *"Drosophila and mouse genetics combined to unravel molecular mechanisms of neuromuscular diseases"* Neuromuscular Disease Meeting, Department of Neurology, Radboud UMC, 25 April 2019.
18. *"FUS-mediated transcriptional regulation of acetylcholine receptor at neuromuscular junctions is compromised in ALS"* First French, German and Swiss meeting on ALS and FTD, Günzburg, Germany, 28 February 2019.

19. *"Deciphering motor neurodegeneration"* GIGA Institute, Liège, Belgium, 25 January 2019.
20. *"mRNA translation defects in Charcot-Marie-Tooth peripheral neuropathy"* Israel Science Foundation workshop: Regulation of mRNA translation by miRNA, proteostasis, or epigenetics and its role in learning and memory and synaptic plasticity in normal and abnormal brain function, Haifa, Israel, 10-12 December 2018.
21. *"mRNA translation defects in peripheral neuropathy"* Keynote lecture, Donders Discussions 2018, Nijmegen, Netherlands, 12 October 2018.
22. *"Xrp1 genetically interacts with the ALS-associated FUS ortholog cabeza and mediates its toxicity"* Neurofly 2018, Krakow, Poland, 5 September 2018.
23. *"Deciphering molecular mechanisms of motor neurodegenerative disorders"* Human Genetics Department, Radboud UMC, Nijmegen, Netherlands, 6 July 2018.
24. *"Motor neurodegeneration: can flies and mice crack the molecular code?"* UMC Utrecht Brain Center, Utrecht, Netherlands, 14 June 2018 (host: prof Jeroen Pasterkamp).
25. *"Gene expression dysregulation as a pathogenic mechanism of motor neurodegeneration"* Center for Neurogenomics and Cognitive Research (CNCR), Amsterdam, The Netherlands, 14 March 2018 (host: prof Matthijs Verhage).
26. *"Unraveling molecular mechanisms underlying motor neurodegenerative diseases"* Dutch Belgian Fly Meeting, Hubrecht Institute, Utrecht, The Netherlands, 31 January 2018.
27. *"On RNA-binding proteins and tRNA synthetases: molecular link to motor neurodegeneration"* Systems Biology lecture series on "RNA Biology & Disease", MDC for Molecular Medicine, Berlin, Germany, 18 October 2017.
28. *"Motor neurodegeneration: can we crack the molecular code?"* Research School of Behavioural and Cognitive Neurosciences, University of Groningen, The Netherlands, 20 July 2017.
29. *"Deciphering molecular mechanisms of motor neurodegenerative disorders"* Donders Center for Neuroscience Symposium 2017, Nijmegen, The Netherlands, 13 June 2017.
30. *"Neurodegenerative diseases: molecular pathogenesis and therapeutic approaches"* MPG-Cambridge Neuroscience Symposium, Berlin, Germany, 9-10 February 2017 (co-presented with Roger Barker).
31. *"Flies and mice as a complementary approach to unravel molecular mechanisms of motor neurodegenerative disorders"* Scripps Research Institute, La Jolla, USA, 15 November 2016.
32. *"Drosophila FUS mutant phenotypes are mediated by increased Xrp1 expression leading to gene expression dysregulation"* SfN meeting 2016, San Diego, USA, 13 November 2016.
33. *"Drosophila FUS mutant phenotypes are mediated by increased Xrp1 expression in neurons"* ENCALS meeting, Milan, Italy, 21 May 2016.
34. *"Unraveling molecular mechanisms of motor neurodegenerative diseases"* VIB and KU Leuven, Belgium, 10 March 2016.
35. *"Drosophila* and mouse as a 'systems genetics' approach to neurodegenerative diseases" LMU, Munich, Germany, 14 December 2015.
36. "Flies and mice to unravel molecular mechanisms of neurodegenerative diseases" Donders Institute for brain, cognition and behaviour, Nijmegen, The Netherlands, 7 December 2015.
37. "*Drosophila* and mouse genetics combined to unravel molecular mechanisms of motor neurodegenerative disorders" Biomedical Section Symposium of the Max Planck Society, Berlin, Germany, 21 October 2015.
38. "Deciphering molecular mechanisms of motor neurodegenerative disorders" German Center for Neurodegenerative Diseases (DZNE) & LMU, Munich, Germany, 23 July 2015.
39. "Deciphering molecular mechanisms underlying FUS-associated ALS: can *Drosophila* crack the code?" EMBO workshop: Molecular assemblies at the crossroads of cell stress and function, Jerusalem, Israel, May 31 – June 4, 2015.

40. “Deciphering molecular mechanisms of FUS-associated amyotrophic lateral sclerosis” presentation for the Heineman Foundation board of directors, Munich, Germany, 21 May 2015.
41. “Unraveling molecular mechanisms of motor neurodegeneration: can *Drosophila* crack the code?” Heinrich Heine University, Düsseldorf, Germany, 20 May 2015.
42. “Impaired protein translation in *Drosophila* models for Charcot-Marie-Tooth neuropathy caused by mutant tRNA synthetases” Neurofly 2014, Hersonissos, Crete, Greece, 5-9 October 2014.
43. “Cell-type-specific gene inactivation reveals a key function for the *Drosophila FUS* homolog *cabeza* in neurons” YEDI meeting 2014, Marseille, France, 11 September 2014.
44. “*Drosophila* and mouse genetics as complementary approaches to unravel molecular mechanisms of motor neurodegenerative disorders” Ludwig Maximilian University, Munich, Germany, 11 August 2014.
45. “Unraveling molecular mechanisms of motor neurodegenerative disorders: can *Drosophila* genetics crack the code?” University of Oregon, Eugene, USA, 12 May 2014.
46. “Lost in translation: do reduced protein translation rates underlie Charcot-Marie-Tooth peripheral neuropathy?” Collaborations in neuroscience symposium, MPI for Neuroscience, Jupiter, Florida, USA, 9-10 May 2014.
47. "Reduced protein translation rates in a Drosophila model for GARS-associated CMT peripheral neuropathy" Fifth Charcot-Marie-Tooth consortium meeting, Antwerp, Belgium, 25-27 June 2013.
48. "Reduced protein translation rates in a Drosophila model for GARS-associated CMT" World Neuroscience Online Conference, 18 June 2013.
49. "Deciphering the molecular pathogenesis of motor neurodegenerative disorders: can Drosophila genetics make it fly?" MPI for molecular physiology/MPI for molecular biomedicine joint symposium, Münster, Germany, 22 November 2012.
50. "VEGF at the neurovascular interface", Kloster Seeon Angiogenesis Young Investigator Meeting, Seeon, Germany, 15-16 September 2012.
51. "Why is Charcot-Marie-Tooth peripheral neuropathy caused by mutations in tRNA synthetase genes?" World Neuroscience Online Conference, 14-16 June 2012.
52. “How do mutations in tRNA synthetase genes give rise to Charcot-Marie-Tooth peripheral neuropathy?” MPS-UT Joint Symposium “Neuroscience”, Tokyo, Japan, 28-29 October 2011.
53. “VEGF: a matter of life and death for motor neurons”. Invited lecture at the lab retreat of the department of Prof. Ralf Adams, Extertal-Linderhofe, Germany, 25 September 2011.
54. “*Drosophila* and mouse genetics as a complementary approach to elucidate the molecular mechanisms of motor neurodegenerative disorders”. YEDI meeting 2011, Leysin, Switzerland, September 2011.
55. "Flies and mice combined to unravel the molecular pathogenesis of motor neuron degenerative disorders". Invited lecture in the framework of the SFB 629 network at the Institute for Neurobiology, Münster, Germany, 14 October 2010.
56. “Deciphering the molecular mechanisms of motor neuron degenerative disorders” Invited lecture at the Institute of Cell Biology (ZMBE), Münster, Germany, 8 September 2010.
57. "Paracrine control of vascular innervation in health and disease". 12th International symposium on vascular neuroeffector mechanisms, Odense, Denmark, 24.-26. July 2010.
58. "*Drosophila* and mouse genetics as a complementary approach to elucidate the molecular mechanisms of motor neuron degenerative disorders". Invited lecture at the Max Planck Institute for Molecular Biomedicine, Münster, Germany, 19 October 2009.
59. "Novel roles for VEGF in neuroprotection, vascular regulation and synaptic plasticity". Invited seminar at ICGEB, Trieste, Italy, 7 April, 2009.
60. "Aminoacylation-independent cell-autonomous neuronal dysfunction in a *Drosophila* model for CMT neuropathy" IAP meeting 2008, Antwerp, Belgium, 15 October 2008.

61. “Unraveling disease mechanisms in a Drosophila model for DI-CMTC neuropathy” Cold Spring Harbor Laboratory meeting on Neurobiology of Drosophila 2007, Cold Spring Harbor, USA, 3-8 October 2007.
62. “Dual function of VEGF as angiogenic and neuroprotective factor”. Deutsche Physiologische Gesellschaft Congress 2007, Hannover, Germany, 25-28 March 2007.
63. "Functional and genetic characterization of DI-CMTC associated mutations in YARS" VIB congress, Blankenberge, 1-2 March 2007.
64. “The fruit fly as a model for amyotrophic lateral sclerosis (ALS).” ALS contact weekend 2006, Oostende, Belgium, 10 September 2006.
65. “Blood flow deficits due to perivascular nerve degeneration: a novel mechanism of amyotrophic lateral sclerosis in $VEGF^{\partial/\partial}$ mice?” Annual Meeting of the Society for Neuroscience 2005, Washington, USA, 12-16 November 2005.
66. "The role of vascular endothelial growth factor (VEGF) in motor neuron degeneration" Recent progress in amyotrophic lateral sclerosis research, Strasbourg, 26 May 2004.
67. "VEGF is a modifier of motor neuron degeneration in SOD1 G93A mice via both vascular and direct neurotrophic effects" VIB congress, Blankenberge, 11/12 March 2004.
68. "VEGF, a modifier of motor neuron degeneration in SOD1 G93A mice, protects against motor neuron loss after spinal cord ischemia: evidence for a vascular hypothesis" 14th international symposium on ALS/MND, Milan, Italy, 17-19 November 2003.
69. "VEGF is a modifier of motor neuron degeneration in SOD1 G93A mice and protects against motor neuron loss and paralysis after spinal cord ischemia" Réunion de printemps de la Société de la circulation et de métabolisme du cerveau, Caen, France, 12-13 May 2003.
70. “VEGF is a modifier of motor neuron degeneration in SOD1 G93A mice and protects against motor neuron loss and paralysis after spinal cord ischemia” VIB congress, Blankenberge 13/14 March 2003.
71. "Potential therapeutic application of mouse models" Oxygen homeostasis/hypoxia meeting, Washington, USA, 12 February 2003.

Co-organized meetings

1. EMBO workshop: Molecular assemblies at the crossroads of cell stress and function, Jerusalem, Israel, May 31 – June 4, 2015: co-organizer.
2. Neurofly 2018: 17th European Drosophila Neurobiology Conference, Krakow, Poland, September 3-7, 2018: member of the program committee (session chair).
3. 9th Dutch Belgian Drosophila Meeting, Nijmegen, Netherlands, 30 January 2019: co-organizer with Annette Schenck and Ronald van Rij.
4. Donders Session ‘Molecules of behaviour’, Donders Institute, Nijmegen, 16 May 2019: co-organizer with Judith Homberg and Simon Fisher.

Session chair:

1. Israel Science Foundation workshop: Regulation of mRNA translation by miRNA, proteostasis, or epigenetics and its role in learning and memory and synaptic plasticity in normal and abnormal brain function, Haifa, Israel, 10-12 December 2018.
2. First French, German and Swiss meeting on ALS and FTD, Günzburg, Germany, 28-30 February 2019.

PhD students graduated from my lab:

31.5.2021 Marica Catinozzi
17.1.2017 Julia Bussmann
22.1.2015 Oliver Sendscheid
4.12.2014 Sven Niehues
4.12.2014 Marie Frickenhaus

Advisor of graduate students:

- Marije Been
- Anne Wienand
- Erik Slot
- Maria Paz Menafra

PhD graduation/reading committee/jury member *for the following students:*

-Daniel Banovic (WWU, Münster, Germany)
-Ellen Knevels (KU Leuven, Belgium)
-Joke Dhondt (KU Leuven, Belgium)
-Syed Mubarak Hussain (WWU, Münster, Germany)
-Florian Sieglitz (WWU, Münster, Germany)
-Sofia Sasse (WWU, Münster, Germany)
-Till Matzat (WWU, Münster, Germany)
-Veronick Benoy (KU Leuven, Belgium)
-Bonnie Nijhof (Radboudumc, Nijmegen, Netherlands)
-Koen Klemann (Radboud University, Nijmegen, Netherlands)
-Tom Koemans (Radboudumc, Nijmegen, Netherlands)
-Koen Kole (Radboud University, Nijmegen, Netherlands)
-Elisavet Kyriakou (Radboudumc, Nijmegen, Netherlands)
-Ilse Eidhof (Radboudumc, Nijmegen, Netherlands)
-Katrin Linda (Radboudumc, Nijmegen, Netherlands) *chair of manuscript committee*
-Yujie Cao (Utrecht University, Utrecht, Netherlands)
-Marieke Verhagen (Utrecht University, Utrecht, Netherlands)
-Sara Sebastiani (Radboud University, Nijmegen, Netherlands)
-Canelas Faria Samina (Radboud University, Nijmegen, Netherlands)
-Ruben van Vugt (Radboud University, Nijmegen, Netherlands)
-Andreia Gomez Duarte (Utrecht University, Utrecht, Netherlands)
-Rosanne Ausems (Radboudumc, Nijmegen, Netherlands)
-Kimberly Pietersz (Radboud University, Nijmegen, Netherlands)
-Jurjan Havelaar (Radboud University, Nijmegen, Netherlands)
-Rebecca Halbach (Radboudumc, Nijmegen, Netherlands)
-Joery den Hoed (MPI for Psycholinguistics and Radboud University, Nijmegen, Netherlands)
-Midas Anijs (MPI for Psycholinguistics and Radboud University, Nijmegen, Netherlands)

PhD mentor (Donders Institute) *for the following PhD students:*

-Jan Ypinga
-Mariana De Carvalho Pereira
-Catagay Demirel
-Coen de Vente

Supervisor of undergraduate students:

Master thesis: Maaike Wessel, Paulina Paškevičiūtė, Youp van Oosterhout, Laura Olmedo Martinez, Gunnar Lapoutre, Jorn Oppersma, Laura Schinkel, Emina Fodolovic, Andrea Mlinar, Kiki Peeters, Aarathi Rajesh, Gino Hulshof, Floor Janssen, Kjell Wijnen, Floor Weijers, Maria Paz Menafra, Bram van Raalte, Aaron Klomp, Vasilis Kougiumzoglou, Anna Bolhuis, Mareike Wolff, Rick Verstegen, Noortje Kersten, Catherine Maas, Tim Schlegel, Sabine Glotzbach, Marije Been, Valerie Betting, Nicolas Spreitzer, Kira Allmeroth, Sumit Jaiswal, David Decoster

Bachelor thesis: Ana Pervanja, Dina Zelener, Auke te Mebel, Michiel Hageman, Teodora Dimitrova, Viktoria Kubisova, Nydia de Kock, Livia Veenemans, Cato Hulshof, Paulien Sloot, Samir el Bouazzati, Yoanna Stoyanova, Simon Heisinger, Yujin Hong, Dennis Colin, Carles Ponce Ruiz, Ngoc Truong, Rianne de Boer, Emma Clephas, Celine van Diermen, Jimmy Vu, Nikki

Smolders, Anouk Balvert, Sarah Hoedtke, Yvonne Schmidt, Christina Theilmeier, Lotte Haagen, Marina Vortmann, Lennert Ceysens, Tim Meese, Andre Klemme

Internship: Kerstin Schäfer, Janette Iking, Susanne Waldthaler, Philip Jäger, Kristina Wagner, Rebecca Demming, Jelena Gotovina, Kaya Akyuz

Recruitment committee member:

2014: committee member, search for a director for the Max Planck Institute for Cell Biology and Genetics (Dresden, Germany)
2017: committee member, search for an assistant/associate professor in the Department of Neurophysiology, Faculty of Science, Radboud University, Nijmegen.
2019: committee member, search for an assistant professor in Chemical Neurobiology at the Department of Molecular Neurobiology, Faculty of Science, Rabdoud University, Nijmegen.
2020: committee member, search for an assistant professor in Biological Neurochemistry at the Department of Molecular Neurobiology, Faculty of Science, Rabdoud University, Nijmegen.
2020: committee member, search for full professor in Medicinal (Neuro-)Chemistry at the Institute for Molecules and Materials, Faculty of Science, Rabdoud University, Nijmegen.
2020: committee member, search for full professor in Dynamic Molecular Materials at the Institute for Molecules and Materials, Faculty of Science, Rabdoud University, Nijmegen.
2020: committee member, promotion of Dr. Sharon Kolk to associate professor, Department of Molecular Neurobiology, Faculty of Science, Rabdoud University, Nijmegen.
2021: committee member, nomination of prof. Erin Schuman for 'professor by special appointment', Donders Center for Neuroscience, Faculty of Science, Rabdoud University, Nijmegen.
2021: committee member, Donders Mohrmann Fellowship/Group Leader position.
2021: committee member, promotion of Dr. Thomas Boltje to associate professor, Institute for Molecules and Materials, Faculty of Science, Radboud University, Nijmegen.
2021: committee member, search for an assistant professor in Molecular Mechanisms of Neurodegeneration at the Department of Molecular Neurobiology, Faculty of Science, Rabdoud University, Nijmegen.
2021: committee member, search for a full professor in Human and Ecological Risk Assessment at the Radboud Institute for Biological and Ecological Sciences, Faculty of Science, Radboud University, Nijmegen.
2022: chair of recruitment committee for assistant/associate professor in Bioinformatics at the Radboud Institute for Molecular Life Sciences, Faculty of Science, Radboud University, Nijmegen.

Reviewing work

Since 2007, I served as a reviewer for several scientific journals (Nat Neurosci, Nat Commun, PNAS, Brain, J. Neurosci, EMBO Mol Med, Exp Neurol, Disease Models and Mechanisms, Muscle Nerve, Vascular Research, Acta Physiol, Sci Rep, Dev Biol, PloS One, Fly, Pharmacol Therap, Eur J Neurol) and funding organizations (Medical Research Council, UK; Fund for Scientific Research (FWO), Belgium; Agence National de Recherche, France; German Research Foundation (DFG); Motor Neuron Disease Association, UK; Parkinson's disease Society UK, Israel Science Foundation, University of Strasbourg Institute for Advanced Study, University of Cyprus).

Since Oct 2020: member of FWO Review College, allowing participation to FWO expert panels.

Memberships and committee work:

Since 2008: Society for Neuroscience (SfN)
Since 2011: Junior European Drosophila Investigators (JEDI)
2011-2014: elected representative of the scientific co-workers of the MPI-MBM, allowing participation to the Biomedical Section meetings of the Max Planck Society
Since 2017: Nominator Radboud Excellence Initiative
Since 2018: member of the examination committee Biosciences, Faculty of Science, Radboud University
Since 2018: member of the General Instrumentation (GI) steering committee, Faculty of Science, Radboud University
Since 12/2019: vice-chair examination committee Biosciences, Faculty of Science, Radboud University
Since 11/2021: chair examination committee Biosciences, Faculty of Science, Radboud University

Since 2021: Dutch Neurofederation
Since 2021: Federation of European Neuroscience Societies (FENS)

Teaching experience

1. *"Animal models for neurological diseases"* and *"Models of Parkinson's disease"* 17-24 Nov 2022, six hours of lectures for the third year Bachelor students in the "Translational Neuroscience minor" (12EC), Radboud University, Nijmegen.
2. *"Chemical and electrical neuronal communication", "The neuromuscular junction", and "Amyotrophic Lateral Sclerosis"* 8 Sept – 27 Oct 2022, course coordinator, presented nine two-hour lectures and article analysis assignment in the Medical Biology Master course "Molecular and Cellular Neurobiology" (6EC), Radboud University, Nijmegen.
3. *"Biology Essay"* spring 2022, supervised essay writing of three students in this 3EC Bachelor Biology course, Radboud University, Nijmegen.
4. *"Animal models for neurological diseases"* and *"Models of Parkinson's disease"* 18-25 Nov 2021, six hours of lectures for the third year Bachelor students in the "Translational Neuroscience minor" (12EC), Radboud University, Nijmegen.
5. *"Chemical and electrical neuronal communication", "The neuromuscular junction", and "Amyotrophic Lateral Sclerosis"* 9 Sept – 5 Nov 2021, course coordinator, presented nine two-hour lectures and article analysis assignment in the Medical Biology Master course "Molecular and Cellular Neurobiology" (6EC), Radboud University, Nijmegen.
6. *"Biology Essay"* spring 2021, supervised essay writing of three students in this 3EC Bachelor Biology course, Radboud University, Nijmegen.
7. *"Animal models for neurological diseases"* and *"Models of Parkinson's disease"* 12-19 Nov 2020, six hours of lectures for the third year Bachelor students in the "Translational Neuroscience minor" (12EC), Radboud University, Nijmegen.
8. *"Chemical and electrical neuronal communication", "The neuromuscular junction", and "Amyotrophic Lateral Sclerosis"* 3 Sept – 16 Oct 2020, course coordinator, presented nine two-hour lectures and article analysis assignment in the Medical Biology Master course "Molecular and Cellular Neurobiology" (6EC), Radboud University, Nijmegen.
9. *"Stem cells in neurobiology"* 21 Oct 2020, two-hour lecture in the Master course "Trends in Stem Cell Biology" (3EC), Radboud University, Nijmegen.
10. *"Systematic Reviews in Neuroscience"* spring 2020, supervised literature thesis of Jurjan Havelaar in this 6EC Master Medical Biology course, Radboud University, Nijmegen.
11. *"Animal models for neurological diseases"* and *"Models of Parkinson's disease"* 7-21 Nov 2019, six hours of lectures for the third year Bachelor students in the "Translational Neuroscience minor" (12EC), Radboud University, Nijmegen.
12. *"Chemical and electrical neuronal communication"* and *"The neuromuscular junction"* 5 Sept – 10 Oct 2019, six two-hour lectures and article analysis assignment in the Neuroscience Master course "Molecular and Cellular Neurobiology" (6EC), Radboud University, Nijmegen.
13. *"Stem cells in neurobiology"* 2 Oct 2019, two-hour lecture in the Master course "Trends in Stem Cell Biology" (3EC), Radboud University, Nijmegen.
14. 20 March 2019: obtained 'basiskwalificatie onderwijs' (BKO ≈ Habilitation in Germany).
15. *"The molecular synapse"* and *"Animal models for neurological diseases"* 18 Oct – 8 Nov 2018, seven hours of lectures for the third year Bachelor students in the "Translational Neuroscience minor" (12EC), Radboud University, Nijmegen.
16. *"Stem cells in neurobiology"* 17 Oct 2018, two-hour lecture in the Master course "Trends in Stem Cell Biology" (3EC), Radboud University, Nijmegen.

17. *"Chemical and electrical neuronal communication"* and *"The neuromuscular junction"* 7 Sept – 18 Oct 2018, six two-hour lectures and article analysis assignment in the Neuroscience Master course "Molecular and Cellular Neurobiology" (6EC), Radboud University, Nijmegen.
18. *"Systematic Reviews in Neuroscience"* 2018 Spring semester, supervised literature thesis of two students (Sabine Glotzbach and Manon Peeters), Radboud University, Nijmegen.
19. *"Chemical neuronal communication"* 7 Sept – 10 Nov 2017, five two-hour lectures in the Neuroscience master course "Molecular and Cellular Neurobiology (6EC), Radboud University, Nijmegen.
20. *"Unraveling molecular mechanisms of motor neurodegenerative diseases"* 1 June 2016, lecture to second semester bachelor students, WWU, Münster, Germany.
21. "*Drosophila* and mouse as a 'systems genetics' approach to neurodegenerative diseases" 9 November 2015, lecture for the CIM/IMPRS graduate school, Münster, Germany.
22. "Unraveling molecular mechanisms of FUS-associated ALS: can *Drosophila* crack the code?" 29 June 2015, lecture for the CIM/IMPRS graduate school, Münster, Germany.
23. "Drosophila melanogaster as a model organism for biomedical research: neurodegenerative disorders" May 2014, consisting of 4 hours of lectures and 4 days of practical course, as part of the master module in biology "Model organisms for biomedical research", WWU, Münster, Germany.
24. "Reduced protein translation rates as a cause of CMT peripheral neuropathy" 20 January 2014, lecture for the CIM/IMPRS graduate school, Münster, Germany.
25. "Drosophila melanogaster as a model organism for biomedical research" May 2013, consisting of 4 hours of lectures and 4 days of practical course, as part of the master module in biology "Model organisms for biomedical research", WWU, Münster, Germany.
26. "Modeling peripheral neuropathy in the fruit fly *Drosophila melanogaster*" 3 December 2012, lecture for the CEDAD/IMPRS graduate school, Münster, Germany.
27. "*Drosophila* melanogaster as a model for neurodegenerative diseases" 16 January 2012, lecture for the CEDAD/IMPRS graduate school, Münster, Germany.
28. "The genetics of *Drosophila* melanogaster" 24 January 2011, lecture for the CEDAD/IMPRS graduate school, Münster, Germany.
29. "Therapy for nervous system disease". April 2008, lecture in the master course 'Hot Topics in Molecular and Cellular Medicine', 1st Master Biomedical Sciences, KU Leuven, Belgium.
30. "*Drosophila* and mouse genetics combined to unravel the molecular mechanisms of human neurodegenerative diseases". November 2007, lecture in the bachelor course 'Model systems in fundamental and clinical research', 3rd Bachelor Biomedical Sciences, KU Leuven, Belgium.

Public outreach** (from 2017 onwards)**:

January 2017: interview on the occasion of my MDA grant published on MDA website
June 2017: news feature on the start of my new lab on the Donders website
October 2017: news feature on the occasion of my two JPND grants on the Donders website
November 2017: news features on the occasion of my ERC consolidator grant on the Radboud University website, the Donders website and the journal Vox
December 2017: interview (together with Annette Schenck) for Donders newsletter article: "The fruits of fly research" (also posted on Donders website)
June 2nd 2018: interview (together with Ronald van Rij and Annette Schenck) on the use of fruit flies for biomedical research for the Dutch newspaper 'Trouw'.
September 2018: news features on the publication of our caz-Xrp1 paper in Journal of Cell Biology on the webpages of the Radboud University and the Donders Institute.
June 2019: Lecture for alumni of the science faculty, Radboud University, Nijmegen.
October 2019: news feature on the publication of our Nature Neuroscience paper on the webpage of the Donders Institute.
Jan 2020: Video report on fly food cooking on Vox website, made in our lab.

May 2020: news feature on the Radboud University website to announce my promotion to full professor.
Sept 2021: press release to announce the publication of our Science paper 'RNA overexpression rescues peripheral neuropathy caused by mutations in tRNA synthetase'.
Sept 2021: news features on the Radboud University website, VBIO, Newsbreak, MedicalXpress, Informationsdienst Wissenschaft on the publication of our Science paper.
June 2022: news feature and video on the webpage of the Science Faculty of the Radboud University on the Interdisciplinary Research Platform Voucher.
July 2022: news feature on NWO website to announce the award of our ENW-M grant.
August 2022: Honorable mention for Anne Wienand, a PhD candidate in our lab, in the Art of Neuroscience Competition 2022 organized by the 'Netherlands Institute of Neuroscience' (NIN) and featured in 'Scientific American'.
September 2022: Interview in the 'Spierkrant' of the 'Prinses Beatrix Spierfonds'.
September 2022: Mention of our MDA research grant on the MDA webpage '2022 grants at a glance'.