

Resume

Personal

Name: Vanneste

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Current Position(s)

- Dean/Head of School of Psychology, 2022-...
- Endowed Chair in Global Brain Health, 2019 - ...
- Full Professor, School of Psychology, Trinity College Dublin, the University of Dublin, Ireland, 2019 - ...
- Research Full Professor at the School of Behavioral and Brain Sciences, University of Texas at Dallas, 2018 - ...
- Honorary Research Professor in the Department of Surgical Sciences, University of Otago, New Zealand, 2015 - ...
- PI Lab for Clinical & Integrative Neuroscience, Trinity College Institute for Neuroscience - Trinity College Dublin - 2019 - ...
- Board member: Trinity College Institute for Neuroscience, 2022 - ...
- Board member: Trinity College Institute for Global Health, 2022 - ...
- Steering Committee Dementia Trial Ireland, 2022 - ...
The Dementia Trials Ireland Network Steering Committee (DTI NSC) is the DTI Clinical Trial Network (DTI CTN) decision-making body with accountability for identifying and addressing key system priorities for the Network. The NSC will ensure work activities being conducted under the auspice of DTI, including subcommittee and work groups, are in line with the Network's overall aim, identified priority areas and will monitor progress against agreed timeframes.
- Brai3n clinic, co-founder and chairman of executive directorial board, 2017 ...

- Brai3n research, co-founder and chairman of executive directorial board, 2021 ...
- Tinnitus Research Initiative Executive Board member, 2022 - ...
- Tinnitus Eire: Public and Patient Involvement and community, co-founder and chairman of the advisory board, 2023 - ...

Previous work experience

- Expert Federaal agentschap voor geneesmiddelen en gezondheidsproducten, Belgium 2016 – 2019.
- Member Texas Pain Research Consortium, 2017 – 2019.
- Director Lab for Clinical & Integrative Neuroscience, University of Texas at Dallas - Callier Center for Communication Disorders, 2013 – 2020.
- Full Professor at the School of Behavioral and Brain Sciences, University of Texas at Dallas, 2018-2019.
- Fellow Professor of Audiology at the Callier Center for Communication Disorders, University of Texas at Dallas, 2015 – 2018.
- Adjunct Professor of Otolaryngology, University of Texas Southwestern Medical Center, 2018 – 2019
- Adjunct Professor of Neuroimaging, University of Texas Southwestern Medical Center, 2018 – 2019.
- Director of Neuromodulation, University of Texas at Dallas - Center for Brain Health, 2016 – 2020.
- Clinical Director, University of Texas at Dallas – Texas Biomedical Device Center, 2016 – 2018.
- Member Institutional Review Board UT Dallas, 2017 – 2018.
- Associate Professor at the School of Behavioral and Brain Sciences, University of Texas at Dallas, 2013-2018.
- Adjunct Associate Professor, University of Texas Southwestern Medical Center, 2013 – 2017.
- Member of the management committee COST-action BM1306: Better Understanding the Heterogeneity of Tinnitus to Improve and Develop New Treatments. 2014-2018.
- Workgroup co-leader of COST-action BM1306: Workgroup Neuroimaging. 2014-2018.
- Guest professor of Neuroscience at the Research Group Translational Neuroscience, Faculty of Medicine and Health Science, University of Antwerp Department and ENT Department, University Hospital Antwerp, Belgium, 2013-2016.
- Principal Investigator for the Tinnitus Research Initiative, Pharmagroup, 2011-2016.
- Research Foundation Flanders (FWO) Post-doctoral Researcher, 2011-2013.
- College Professor of Statistics, University College Kortrijk, 2007-2013.
- External researcher at the Centre for Intellectual Property Rights at the Catholic University of Louvain 2008-2013.
- Researcher, group Translational Neuroscience, Department of neurosurgery and neuromodulation at the University Hospital Antwerp 2008-2013.
- Doctoral Researcher, University of Antwerp, 2008-2010.

- Researcher on Project, Ghent University, 2006-2007.
- Researcher on Project, Catholic University Leuven, 2004-2005.

Consulting

Capri Limited- Dublin, Ireland – 2020 – ...

Neuromod devices limited – Dublin, Ireland – 2015 – ...

Desyncra technologies limited –London, U.K. – 2016 - 2018

Abbott / St Jude Medical – Texas/California, USA – 2015 - 2018

Education

- PhD in Medical Science: Neuroscience (Antwerp University, 2011)
- Master's in science: Theoretical & Experimental Psychology (Ghent University, 2004)
- Bachelor's in science: Psychology (Ghent University, 2001)
- Master's in arts: Criminology (Ghent University, 2000)
- Bachelor's in arts: Criminology (Ghent University, 1998)

Training

- Competency Interview training (Trinity College, 2022)
- Let's talk about race in the higher education sector (Trinity College, 2022)
- Equality, Diversity and Inclusion in Higher Education (Trinity College, 2022)

Others

- Organizer of International Conferences:
 1. International conference on tinnitus (TRI 2023): Engineering the future of tinnitus, bridging academia, industry, medicine and society, 6-9 June 2023, Dublin, Ireland. (350 participants).
 2. International conference on tinnitus (TRI 2012): the art and science of neuromodulation, 13-16 June 2012, Bruges (350 participants)
 3. The Moral Brain Conference 20-21 October 2006, Ghent (100 participants)
- Organizer of Small group meetings:
 1. Neurostimulation workgroup 2012, 5-7 December 2012, Ghent
 2. Neurostimulation workgroup 2009, 27-28 May 2009, Antwerp
 3. Moral Brain Meetings 2006-2007, Small group meeting (November 25th, 2006, February 3rd, 2007, March 10th to April 14th, 2007, July 7th, 2007) Ghent
- Member of Research Communities:

1. Neurostimulation workgroup, Tinnitus Research Initiative
(http://www.tinnitusresearch.org/en/workgroups/neurostimulation_workgroup_en.php)
 2. Pharmagroup, Tinnitus Research Initiative
(http://www.tinnitusresearch.org/en/workgroups/neurostimulation_workgroup_en.php)
 3. Brain innovations, a consortium between the University Hospital Antwerp, Technical University Delft and Erasmus University Rotterdam (<http://www.braininnovations.nl/>)
- Scientific board: 22nd-24th May, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland
 - UT Dallas Behavioral and Brain Sciences Colloquium 2016-2017

Teaching Experience

- 2021: Grading Active Implanted Devices and Systems, Trinity College Dublin
- 2021 - ...: Advanced Psychology & Theoretical Issues, Trinity College Dublin
- 2020 - ...: Skills Sessions, Trinity College Dublin – University of California San Francisco
- 2019 - ...: Research Skills & Methodology I, Statistics & Methodology I, Trinity College Dublin
- 2016 - 2018: Human Neuroscience lab: EEG at University of Texas at Dallas
- 2016 – 2017: Applied Neuroscience (Undergraduate Neuroscience, Engineering); Research at Behavioral and Brain Sciences (Graduate Neuroscience, Communication science and disorders); Seminars in Neuroscience: EEG lab (Graduate Neuroscience), Integrative Neuroscience (Undergraduate Neuroscience, Psychology, Communication science and disorders) at University of Texas at Dallas
- 2014 -2015: Systems Neuroscience (Graduate Neuroscience, Psychology, Communication science and disorders); Special topics class: The Neuroscience of Tinnitus (Graduate Audiology), Neuromodulation (Graduate Neuroscience, Engineering); Research at Behavioral and Brain Sciences (Graduate Neuroscience, Communication science and disorders) at University of Texas at Dallas
- 2011- 2015: System Neuroscience: Auditory Neuroscience at University of Antwerp
- 2008-2013: Statistics II, Statistics III at University College Kortrijk
- 2007-2008: Statistics I, Observation techniques at University College Kortrijk

Department and University Service

- Faculty Meeting, TCD (2019- ...)
- Member Ethics Committee, TCD (2020-...)
- Member of Pilot and Project committee, GBHI, TCD-UCSF (2019 - ...)
- Member/ interim co-chair of Recruitment and Selection committee, GBHI, TCD-UCSF (2019 - ...)

- Ad Hoc tenure Committee, UT Dallas (2017-2019)
- System neuroscience PhD appointment Committee (2017 - 2018)
- Callier Research Committee (2013 - 2016)
- Callier Post-doc appointment Committee (2013 - 2016)
- Communication disorder PhD appointment Committee (2013 – 2017)
- Member of the Education committee on Biomedical Science, Faculty of Biomedical Science, University of Antwerp (2013-2016)
- Member of the Council of the Faculty of Medicine and Health sciences, University of Antwerp (2012-2016)

(Co-)Promotor/Supervisor

1. Kathleen Joos. The involvement of the emotional brain network in non-pulsatile tinnitus. University of Antwerp Received 2014.
2. Mark Plazier. Greater Occipital Nerve stimulation: a surgical treatment for Fibromyalgia. University of Antwerp Received 2017.
3. Anusha Mohan. Emerging network connectomics in phantom sound perception. UT Dallas Received 2018.
4. Hye Bin Yoo. The effect of transcutaneous occipital nerve stimulation on a core brain network via functional connectivity. UT Dallas Received 2018.
5. Jeffery Hullfish. The role of nucleus accumbens in tinnitus. UT Dallas Received 2019.
6. Yuefeng Huang. Improving learning using peripheral nerve stimulation. UT Dallas Received 2020.
7. Alison Luckey. On-tES for the improvement of memory. TCD Received 2022.
8. Feifan Chen. Systematic Alternation of Predictive Processing to Explain the Susceptibility of Phantom Perception in Healthy Individuals. TCD expected 2024.

Doctoral Committee

1. Eimear Mc Kenna,
2. Qing Qi,
3. Anna Marie Rosická,
4. Seveso, Martina
5. Xinyue Dai. Counterfactual Explanations for AI Decision Support Systems in Smart Agriculture. Defense 2024.
6. Graham King. Infant Brain Functional Connectivity – Academic to Clinical. TCD Defense 2023.
7. Theresa M. Marschall, Off the beaten path: Hallucinations beyond psychosis. Universiteit Groningen. Defense 2023.
8. Elza Daoud. Acouphènes. Psychoacoustique et développement d'une bithérapie personnalisée. Université Marseille Defense 2022.

9. Ahsan Khan. Effect of High-Definition Transcranial Direct Current Stimulation and Transcranial Alternating Current Stimulation on Interference Control Mechanisms in Human Subjects. The Chinese University of Hong Kong Defense 2022.
10. Glenn Calvert. Neural mechanisms mediating the cross education of motor function in healthy older adults. Trinity College Dublin. Defense 2022.
11. Jerin Mathew. Neurofeedback Training for Pain Management in People with Knee Osteoarthritis. University of Otago, Defense 2022.
12. Nathan Clarck. An investigation into the relationship between tinnitus distress, concentration difficulties, and cognitive performance. Univesity of Nottingham Defense 2021.
13. Hans Schaeferkoeter Klein. Using neural stimulation to improve visual attention in individuals with schizophrenia. UT Dallas Defense 2020.
14. Bambi De la Rosa. Electrophysiological dynamics during visual threat processing in combat-related PTSD. UT Dallas Defense 2016.
15. Michael Borland. Understanding and optimizing VNS directed plasticity. UT Dallas Defense 2017.
16. Julie Fratantoni. Theta entrainment to modulate cognitive control of language functions. UT Dallas Defense 2018.
17. Elizabeth Buell. Optimizing parameters to enhance targeted plasticity in auditory cortex. UT Dallas Defense 2018.

Outside Chair

1. Syed Huzaif Alie. Condition monitoring for discrete packaged insulated gate bipolar transistors in power converters. UT Dallas Defense 2016.
2. Viva Chair TCD Defense 2019 -

Publications (H-index: 64)

International peer-reviewed articles

1. Adhia, D., Ramakrishanan, M., Matthew, J., Smith, M. **Vanneste, S.** & De Ridder, D. (in press). Exploring electroencephalographic infraslow neurofeedback treatment for chronic low back pain: A pilot, safety and feasibility randomized controlled trial. *Scientific report*.
2. Arulchelvan, E. & **Vanneste, S.** (in press). Novel neurostimulation approaches targeting the hippocampus to improve episodic memory: A review. *Brain Research*.
3. Berglund-Barraza A., Carey, S., Hart J., **Vanneste, S.** & Evans J. L. (in press). Modulating phonological working memory with anodal High-Definition transcranial direct current stimulation (HD-tDCS) to the left anterior portion of the supplementary motor area (preSMA). *Journal of Speech Language and Hearing Research*.

4. Byczynski, G. & **Vanneste, S.** (in press). Modulating motor learning with brain stimulation: stage-specific perspectives for transcranial and transcutaneous delivery. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*.
5. De Ridder, D., Friston, K., Sedley, W. & **Vanneste, S.** (in press). A parahippocampal-sensory Bayesian vicious circle generates pain or tinnitus. *Brain Communication*.
6. Ehrenberg, J. A., Kelberman, M.A., Liu, K. Y., Dahl, M. J., Weinshenker, D., Falgàs, N., Dutt, S., Mather, M., Betts, M. J., Winer, J. R., Teipel, S., Weigand, A. J., Eschenko, O., Hämmerer, D., Leiman, M., Counts, S. E., Shine, J. M., Robertson, I., Levey, A. I., Lancini, E., Ludwig, M., Son, G. Schneider, C., Van Egroo, M., Liguori, C., Wang, Q., Vazey, E. M., Rodriguez-Porcel, F. Haag, L., Bondi, M., **Vanneste, S.**, Freeze, W. M., Yi, Y. J., Maldinov, M., Gatchel, J., Satpati, A., Babiloni, C., Kremen, W. S., Robert Howard, R., Jacobs, H. I. L., Grinberg, L. T. (in press). Priorities for research on neuromodulatory subcortical systems in Alzheimer's disease: Position paper from the NSS PIA of ISTAART. *Alzheimer & Dementia*.
7. Grootjans Y., Byczynski, G. & **Vanneste, S.** (in press). The use of non-invasive brain stimulation in auditory perceptual learning: A review. *Hearing Research*.
8. Langguth, B., Kleinjung, T., Schlee, W., **Vanneste, S.** & De Ridder, D. (in press). Tinnitus guidelines and their evidence base: current situation and considerations for future directions. *Journal of Clinical Medicine*.
9. Luckey, A. M., Adcock, K. & **Vanneste, S.** (in press). Peripheral nerve stimulation: A neuromodulation-based approach. *Neuroscience & Biobehavioral Reviews*.
10. Luckey, A. M., McLeod, S. L., Huang, Y., Mohan, A. & **Vanneste, S.** (in press). Making memories last: The peripheral effect of direct current stimulation on strengthening memories. *Elife*.
11. **Vanneste, S.** & De Ridder, D. (in press). BurstDR spinal cord stimulation rebalances pain input and pain suppression in the brain in chronic neuropathic pain. *Brain Stimulation*.
12. Adcock, K. & **Vanneste, S.** (2022). Neuroinflammation in Tinnitus. *Current Otorhinolaryngology Reports*, 10, 322-328.
13. Adcock, K., Robertson, I., Lawlor, B. & **Vanneste, S.** (2022). Diminishing accelerated long-term forgetting in mild cognitive impairment: study protocol for a prospective, double-blind, placebo-controlled, randomized controlled trial. *Contemporary Clinical Trials Communications*, 30, 100989.
14. Adhia, D. B., Mani, R., Reynolds, J., Hall, M., **Vanneste, S.**, De Ridder, D. (2022). High-definition transcranial infraslow pink noise stimulation can reduce functional and effective connectivity between targeted cortical areas in individuals with chronic low back pain: A pilot randomized placebo-controlled study. *Neuromodulation*, 22, 1225-1229.
15. Adhia, D. B., Mani, R., Reynolds, J., **Vanneste, S.**, De Ridder, D. (2022). Safety and feasibility of high-definition transcranial infraslow pink noise stimulation in chronic low back pain: A protocol for pilot randomised controlled trial. *BMJ Open*, 12, e056842.

16. Adhia, D. B., Mani, R., Turner, P., **Vanneste, S.**, De Ridder, D. (2022). Infralow neurofeedback training alters effective connectivity in individuals with chronic low back pain: A secondary analysis of a pilot randomized placebo-controlled study. *Brain Sciences*, *11*, 1514.
17. Brunoni, A. R., Ekhtiari, H., Antal, A., Auvichayapat, P., Baeken, C., Benseñor, I. M., Bikson, M., Boggio, P., Brighina, F., Brunelin, J., Carvalho, S., Caumo, W., Ciechanski, P., Charvet, V., Clark, V., Datta, A., Deng, Z. D., De Raedt, R., De Ridder, D., Fitzgerald, P. B., Floel, A., Frohlich, F., George, M., Ghobadi-Azbari, P., Goerigk, S., Hamilton, R. H., Haverzadeh, S. J., Hoy, K., Kadosh, R. C., Kidgell, D. J., Khojasteh, A., Laureys, S., Lavidor, M., Leite, J., Lisanby, S. H., Loo, C., Martin, D. M., Miniussi, C., Mondino, M., Monte-Silva, K., Morales-Quezada, L., Nitsche, M. A., Okano, A. H., Oliveira, C. S., Onarheim, B.1, Padberg, F., Nakamura-Palacios, E. M., Palm, U., Paulus, W., Plewnia, C., Razza, R. T., Rehn, E., Schellhorn, K., Simis, M., Suen, P., Thibaut, A., Valiengo, L. C. L., Vanderhasselt, M. A. **Vanneste, S.**, Venkatasubramanian, G., Violante, I. R., Wexler, A., Woods, A. Zare-Bidoky, M., & Fregni, F. (2022). Digitizing Portable Transcranial Electric Stimulation Clinical Trials: Scoping Review, Process Mapping, and Recommendations from a Delphi Panel. *Clinical Neurophysiology*, *143*, 154-165.
18. Chiang, H. S., Motes, M., Kraut, M., **Vanneste, S.** & Hart, J. (2022). High-Definition transcranial Direct Current Stimulation modulates theta response during a Go-NoGo task in traumatic brain injury. *Clinical Neurophysiology*, *143*, 34-47.
19. Chiang, H. S., Shakal, S. Strain, J. F., Womack, K., Kraut, M., **Vanneste, S.**, Hart, J. Jr. (2022). Reversal of unilateral hand movement dysfunction by High-Definition transcranial Direct Current Stimulation in a patient with chronic traumatic brain injury. *Brain Stimulation*, *15*, 283-285.
20. Conlon, B., Hamilton, C., Meade, E., Leong, S. L., O'Connor, C., Langguth, B., **Vanneste, S.**, Hall, D. A., Hughes, S., Lim, H. H. (2022) Bimodal neuromodulation for tinnitus treatment: Adjusting stimulus features over time achieves greater improvements in symptoms in a large randomized clinical study. *Scientific Reports*, *12*, 10845.
21. De Ridder, D., **Vanneste, S.**, Smith, M. & Adhia, D. (2022). Pain and the triple network model. *Frontiers in Neurology*, *13*, 1-13.
22. De Ridder, D., **Vanneste, S.**, Song, J. J. & Divya (2022). Tinnitus and the triple network model: a perspective. *Clinical & Experimental Otorhinolaryngology*, *3*, 205-212.
23. Lee S. J., Park, J., Lee, S. Y., Koo, J. W., **Vanneste, S.**, De Ridder, D., Lim, S & Song, J. J. (2022). Triple Network Activation Causes Tinnitus in Patients with Sudden Sensorineural Hearing Loss: A Model-based Volume-Entropy Analysis. *Frontiers in Neuroscience*, *16*, 1028776.
24. Luckey, A. M., McLeod, S. L., Mohan, A. & Vanneste, S. (2022). Potential Role for Peripheral Nerve Stimulation on Learning and Long-Term Memory: A Comparison of Alternating and Direct Current Stimulations. *Brain Stimulation*, *15*, 536-545.
25. Mohan, A., Leong, S. L., De Ridder, D. & **Vanneste, S.** (2022). Symptom dimensions to address heterogeneity in tinnitus. *Neuroscience & Biobehavioural reviews*, *134*, 1-12.

26. Mohan, A., Luckey, A., Weisz, N. & **Vanneste, S.** (2022). Predisposition to domain-wide maladaptive changes in predictive coding in auditory phantom perception. *Neuroimage*, 248, 1-10.
27. Piarulli, A.*, **Vanneste, S.***, Nemirovsky, I., Kandeean, S., Maudoux, A., Gemignani, A. & De Ridder, D., Soddu, A.+. (2022). Tinnitus and Distress: An Electroencephalography Classification Study. *Brain Communications*.
28. Raymaekers, V., Bamps, S., Donkersloot, P., Duyvendak, W., Put, E., Roosen, G., Vanvolsem, S., Wissels, S., **Vanneste, S.**, De Ridder, D. & Plazier, M. (2022). Patient Profiling in Patients with Sciatica Due to Lumbar Disc Herniation. *Clinical Neurology and Neurosurgery*, 217, 107246.
29. Ahmed, S., Mohan, A., Yoo, H. B., To, W. T., Kovacs, S., Sunaert, S., De Ridder, D. & **Vanneste, S.** (2021). Structural correlates of the audiological and emotional components of chronic tinnitus. *Progress in Brain Research*, 262, 487-509.
30. Chiang, H. S., Motes, M., O'Hair, R., **Vanneste, S.**, Kraut, M. & Hart, J. (2021). Baseline frontal lobe function predicts response to high-definition transcranial direct current stimulation targeting the superior medial frontal cortex as measured by verbal fluency and event-related potentials in chronic traumatic brain injury. *Neuroscience Letters*, 764, 1-7.
31. Chiang, H. S., Shakal, S., **Vanneste, S.**, Kraut, M. & Hart, J. (2021). Case Report: Reversing limb apraxia and improving verbal retrieval deficits with High-Definition transcranial Direct Current Stimulation targeting the pre-Supplementary Motor Area in a patient with chronic traumatic brain injury. *Frontiers in Neurology*, 12, 1-8.
32. Conlon, B., Langguth, B., Hamilton, C., Hughes, S., Meade, E., O'Connor, C., Schecklmann, M., Hall, D. A., **Vanneste, S.**, Leong, S. L., Subramanian, T., D'Arcy, S. & Lim, H. H. (2021). Bimodal neuromodulation combining sound and tongue stimulation reduces tinnitus symptoms in a large randomized clinical study. *Science Translational Medicine*, eletter response letter.
33. De Ridder, D., Adhia, D. & **Vanneste, S.** (2021). The anatomy of pain and suffering in the brain and its clinical implications. *Neuroscience & Biobehavioral Reviews*, 130, 125-146.
34. De Ridder, D., Langguth, B. & **Vanneste, S.** (2021). Vagus Nerve Stimulation for Tinnitus: a perspective. *Progress in Brain Research*, 262, 451-467.
35. De Ridder, D., Maxiazyk, J., D. & **Vanneste, S.** (2021). The future of neuromodulation: smart neuromodulation. *Expert in Medical Devices*, 18, 307-317.
36. De Ridder, D., Schlee, W., **Vanneste, S.**, Londero, A., Norena, A., Weisz, N., Kleinjung, T., Shekhawat, G. S., Elgoyhen, A. B., Song, J. J., Andersson, G., Azevedo, A. A., Baguley, D. M., Biesinger, E., Binetti, C., Del Bo, L., Cederroth, C. R., Cima, R., van Dijk, P., Eggermont, J. J., Figueiredo, R., Fuller, T. E., Gallus, S., Gilles, A., Hall, D. A. Van de Heyning, P., Hoare, D. J., Khedr, E. M., Kikidis, D., Kleinstäuber, M., Kreuzer, P. M., Lai, J. T., Lainez, J. M., Landgrebe, M., Po-Hung Li, L., Lim, H. H., Liu, T. C., Lopez-Escamez, J. A., Mazurek, B., Moller, A. R., Neff, P., Pantev, C., Park, S. N., Piccirillo, J. F., Poeppel, T. B., Rauschecker, J. P., Salvi, R., Sanchez, T., Schecklmann, M., *Schiller*, A., Tyler, R., Vielsmeier, Vlaeyen, J. W. S., Zhang, J., Zheng, Y., de Nora, M. & Langguth, B. (2021). Tinnitus and

- Tinnitus Disorder: Theoretical and Operational Definitions. An international multidisciplinary proposal. *Progress in Brain Research*, 260, 1-25.
37. De Ridder, D. & **Vanneste, S.** (2021S). The Bayesian brain in imbalance: medial, lateral and descending pathways in tinnitus and pain – A perspective. *Progress in Brain Research*, 262, 309-334.
 38. Huang, Y., Mohan, A., McLeod, Luckey, A., Hart, J. jr., & **Vanneste, S.** (2021). Polarity-specific high-definition transcranial direct current stimulation of the anterior and posterior default mode network improves remote memory retrieval. *Brain Stimulation*, 14, 1005-1014.
 39. Klein, H., S., **Vanneste, S.** & Pinkham, A. (2021). The limited effect of neural stimulation on visual attention and social cognition in individuals with schizophrenia. *Neuropsychologia*, 157, 107880.
 40. Langguth, B. Kleinjung T., De Ridder, D., Vanneste, S. & Schlee, W. (2021). Preference: An Interdisciplinary Approach Towards Individualized Treatment: Results from the European Graduate School for Interdisciplinary Tinnitus Research. *Progress in Brain Research*, 263, xix-xxii.
 41. Langguth, Kleinjung, T. De Ridder, D. Schlee, W., & Vanneste, S. (2021). Preference: An Interdisciplinary Approach Towards Individualized Treatment: From Heterogeneity to Personalized Medicine. *Progress in Brain Research.*, 262, xxvii-xxxi.
 42. Lee, S.-Y., Chang, M., Kwon, B., Choi, B. Y., Koo, J.-W., Moon, T., **Vanneste, S.** & Song, J.J. (2021). Is the posterior cingulate cortex an on-off switch for tinnitus? A comparison between hearing loss subjects with and without tinnitus. *Hearing Research*, 411, 1-11.
 43. Leong, S.L., De Ridder, D., Deer, T. & **Vanneste, S.** (2021). Potential therapeutic effect of low amplitude burst spinal cord stimulation on pain. *Neuromodulation*, 24, 574-580.
 44. Luckey, A. M., Robertson, I. H., Lawlor, B., Mohan, A. & **Vanneste, S.** (2021). Sex Differences in Locus Coeruleus: A Heuristic Approach That May Explain the Increased Risk of Alzheimer's Disease in Females. *Journal of Alzheimer's Disease*, 83, 502-522.
 45. Schlee W., Langguth, B., Kleinjung, T., Vanneste, S. & De Ridder, D. (2021). Preference: An Interdisciplinary Approach Towards Individualized Treatment: Towards understanding the complexity of tinnitus. *Progress in Brain Research*, 260, xxxv-xlii.
 46. Song, J. J., Park, J., Koo, J.W., Lee, S.-Y., **Vanneste, S.**, De Ridder, D., Hong, S., Lim, S. (2021). The balance between Bayesian inference and default mode determines the generation of tinnitus from decreased auditory input: A volume entropy-based. *Human Brain Mapping*, 42, 4059-4073.
 47. Springfield, C., Isa, R. I., Bass, E. E., **Vanneste, S.** & Pinkham, A. E. (in press). Preliminary Evidence for the Efficacy of Transcranial Direct Current Stimulation to the Ventrolateral Prefrontal Cortex for Reducing Subclinical Paranoid Ideation: Preliminary Efficacy of tDCS to Reduce Paranoia. *British Journal of Clinical Psychology*.
 48. Stoeckl, T., **Vanneste, S.**, Langguth, B., Schlee, B., Mielke, S., De Ridder, D. (in press). Hypermirroring: a novel empathy disorder? *Heliyon*.
 49. To, W. T., Song, J. J., Mohan, A., De Ridder, D. & **Vanneste, S.** (2021) Thalamocortical dysrhythmia underpins the log-dynamics in phantom sounds. *Progress in Brain Research*, 262, 511-526.

50. **Vanneste, S.** & De Ridder, D. (2021). Chronic pain as a brain imbalance between pain input and pain suppression. *Brain Communication*, 3, 1-13.
51. **Vanneste, S.**, Luckey, A., S. L. McLeod, Robertson I. H. & To, W. T. (2021). Impaired posterior cingulate cortex–parahippocampus connectivity is associated with episodic memory retrieval problems in amnesic mild cognitive impairment. *European Journal of Neuroscience*, 53, 3125-3141.
52. **Vanneste, S.**, Mohan, A., De Ridder, D. & To, W. T. (2021). The BDNF Val⁶⁶Met polymorphism regulates vulnerability to chronic stress and phantom perception. *Progress in Brain Research*, 260, 301-326.
53. Yoo, H. B., Mohan, A., De Ridder, D. & **Vanneste, S.** (2021). Paradoxical Relationship between Distress and Functional Network Topology in Phantom Sound Perception. *Progress in Brain Research*, 260, 367-395.
54. Conlon, B., Langguth, B., Hamilton, C., Hughes, S., Meade, E., O'Connor, C., Schecklmann, M., Hall, D. A., **Vanneste, S.**, Leong, S. L., Subramanian, T., D'Arcy, S. & Lim, H. H. (2020). Bimodal neuromodulation combining sound and tongue stimulation reduces tinnitus symptoms in a large randomized clinical study. *Science Translational Medicine*, 12, 1-12.
55. De La Rosa, B., Spence, J., Motes, M., To, W., **Vanneste, S.**, Hart Jr., J. & Kraut, M. A. (2020). Identification of selection and inhibition components in a go/no go task from EEG spectra using Machine learning model. *Brain & Behavior*, 12, 1-15.
56. De Ridder, D, Vancamp, T., Falowski, S. & **Vanneste, S.** (in press). All bursts are equal, but some are more equal: true burst stimulation versus clustered tonic stimulation. *Expert Review in Medical Devices*, 4, 289-295.
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8. **Vanneste, S.** (2003). De toepassing van de polygraaf bij verdachten. Waarheid of leugen? *Panopticon: Tijdschrift voor strafrecht, criminologie en forensisch welzijnswerk*, 5, 425-437.

Book chapters

1. De Ridder, S. & **Vanneste, S.** (in press). Emerging Trends in Modulating Pain Circuitry. In *Brain Circuitry and Neuromodulation* edited by Nir Lipsman and Tejas Sankar.
2. Langguth, B., Kleinjung, T., Schlee, W., **Vanneste, S.** & De Ridder, D. (2023) Preference. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
3. Byczynski, G., **Vanneste, S.** & Møller, A. (2023). Anatomy and Physiology of the Auditory System. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
4. Adcock, K., De Ridder, D. & **Vanneste, S.** (2023). Structural and functional MRI based neuroimaging in tinnitus. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
5. Mohan, A. & **Vanneste, S.** (2023). The electrophysiological explorations in tinnitus over the decades using EEG and MEG. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
6. De Ridder, D., **Vanneste, S.**, Sedley, W., & Friston, K. (2023). The Bayesian brain and tinnitus. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
7. **Vanneste, S.** & Kleinjung, T. (2023) Non-invasive brain stimulation. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
8. De Ridder, D. & **Vanneste, S.** (2023) Invasive brain stimulation. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
9. **Vanneste, S.** & Kleinjung, T. (2023) Bimodal stimulation for the treatment of tinnitus. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
10. Leong, S. L. & **Vanneste, S.** (2022). Cutting-edge approaches in tinnitus management. In Deshpande, A. & Hall, J. (Eds.) Recent Advancement in Tinnitus. Plural Publishing, Ca. USA.
11. De Ridder, D., Kilgard, M & **Vanneste, S.** (2022). Vagal Nerve Stimulation for Tinnitus. In *Vagus Nerve Stimulation* edited by Peter Staats, Cenk Ayata & Imanuel Lerman. Elsevier
12. Leong, S. L. & **Vanneste, S.** (2021). Transcranial direct current stimulation for the treatment of tinnitus. In *Transcranial Direct Current Stimulation in Neuropsychiatric Disorders* edited by Andre Brunoni, Michael Nitsch & Colleen Loo. Springer.

13. De Ridder, D., Van Camp, T., **Vanneste, S.** (2018). Fundamentals of Burst Stimulation of the Spinal Cord and Brain. In *Neuromodulation* edited by Eliot Kramer, Hunter P. Pechkam & Ali Rezai. London: Academic Press. 147-160.
14. De Ridder, **Vanneste, S.**, D., Stöckl T., Langguth, B. & To, W. T. (2017). Non-invasive transcranial magnetic and electrical stimulation: working mechanisms. In *Rhythmic Stimulation Procedures in Neuromodulation*, edited by James Evans & Robert Turner, 192-223. London: Academic Press.
15. De Ridder, D., Manning, P., Cape, G., **Vanneste, S.**, Langguth, B., & Glue, P. (2016). Pathophysiology-based neuromodulation for addictions: An overview. In *Neuropathology of drug addictions and substance misuse (Vol. 1)*, edited by V. R. Preedy, 14-24. London: Elsevier.
16. Slavin, K. V., Carayannopoulos, A. G., Plazier, M., **Vanneste, S.**, & De Ridder, D. (2015). Peripheral Nerve Stimulation. In *Textbook of Neuromodulation*, edited by H. Knotkova, D. Rasche, 19-34. London: Springer.
17. De Ridder, D., **Vanneste, S.**, Song, J. J., Langguth, B. (2014). Tinnitus. In *Textbook of cortical brain stimulation sciences*, edited by S. Canavero, 187-200. Berlin: De Gruyter,
18. Dammekens, E., Lafosse, C., Van Kerckhoven, L., Buys, R., Ost, J., & **Vanneste, S.** (2013). Transcraniële direct current stimulatie en taaltherapie. In *Het (voor)beeldig beeld*, edited by E. Robert, E. Visch-Brink, A.-S. Beeckamn. Anterp: Garant,
19. De Ridder, D. & **Vanneste, S.** (2010). Auditory cortex stimulation for tinnitus. In *Textbook of Tinnitus* by A. R. Moller, T. Kleinjung, B. Langguth, D. De Ridder. Springer
20. Depoorter, B. & **Vanneste, S.** (2010). Putting Humpty Dumpty back together: Experimental Evidence of Anticommons Tragedies. In *Common and Anticommons*, edited by M. Heller. Northampton: Edward Elgar.
21. **Vanneste, S.** & De Ridder, D. (2010). Transcranial Direct Current Stimulation: A New Tool for the Treatment of Tinnitus. In *Textbook of Tinnitus* by A. R. Moller, T. Kleinjung, B. Langguth, D. De Ridder. Springer.
22. **Vanneste, S.**, & Cornelis, G. (2006). *Op zoek naar de leugenaar/La quête du menteur/Looking for the liar*. In Dr. Guislain Museum Voorbij goed & Kwaad/Par delà le bien & le mal/Beyond good & evil.

Books

1. De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & **Vanneste, S.** Textbook of Tinnitus. Springer.
2. Langguth, B., Kleinjung, T., De Ridder, D., Schlee, W., & **Vanneste, S.** (2021). An Interdisciplinary Approach Towards Individualized Treatment: Results from the European Graduate School for Interdisciplinary Tinnitus Research. *Progress in Brain Research: Tinnitus (Vol. 263)*, Elsevier, USA. 1-208.
3. Schlee W., Langguth, B., Kleinjung, T., De Ridder, D. & **Vanneste, S.** (2021). An Interdisciplinary Approach Towards Individualized Treatment: *Towards understanding the complexity of tinnitus*. *Progress in Brain Research: Tinnitus (Vol. 262)*, Elsevier, USA, 1-526.

4. Langguth, B., Kleinjung, T., Schlee, W., **Vanneste, S.**, & De Ridder, D. (2021). *An Interdisciplinary Approach Towards Individualized Treatment: From Heterogeneity to Personalized Medicine*. Progress in Brain Research: Tinnitus (Vol. 260), Elsevier, USA, 1-451.
5. Verplaetse, J., De Schrijver, **Vanneste, S.**, & Braeckman, J., Iochki, N. & Mochizuki, F. (2013). *The moral Brain: Essays on the evolutionary and neuroscientific aspects of morality*. Springer, Tokyo. (Translated in Japanese)
6. Verplaetse, J., De Schrijver, **Vanneste, S.**, & Braeckman, J. (2009). *The moral Brain: Essays on the evolutionary and neuroscientific aspects of morality*. Springer, New York.
7. Van Zimmeren, E., **Vanneste, S.**, & Van Overwalle, G. (2011). Patent Licensing in Medical Biotechnology in Europe: A Role for Collaborative Licensing Strategies? Leuven, Acco.

Diagnostic Instruments

1. Depreeuw, E., Steenhaut, S., **Vanneste, S.** & Van den Eynde, E. (2010). Vragenlijst Studie- en Examenvaardigheden Levenslang Leren VaSEV-LLL. Vocvo, Mechelen.

Presentations

Invited talks

1. **Vanneste, S.** (2023). Tinnitus and Neuroinflammation. 13^{ème} colloque AFREPA *Association Francophone des Equipes Pluridisciplines en Acouphenologie*, September 7-8, Toulouse, France.
2. **Vanneste, S.** (2023). Implanted Neuromodulation for Headache disorders clinical approaches. Migraine Study Day. The European Society of Anaesthesia & Pain therapy. September 4, Genena, Switzerland.
3. **Vanneste, S.** (2023). Peripheral nerve stimulation: A novel neuromodulation-based approach that can lead to new treatment opportunities. Korean Society for Otorhinolaryngology-Head and Neck Surgery, April 26, Seoul, South Korea.
4. **Vanneste, S.** (2023). Can Rewiring of Brain Circuits Reduce Symptoms of Tinnitus? International Congress of Otorhinolaryngology-Head and Neck Surgery 2023. April 23 -25, Seoul, South Korea.
5. **Vanneste, S.** (2022). Advances in Non-Invasive Treatments for Age-Related Cognitive Decline. Center for Brain Health, University of Texas at Dallas, USA, October, 21.
6. **Vannest, S.** (2022). Advances in Brain Stimulation for the treatment of neurological and psychiatric disorders. Trinity College Dublin Evening Course, Dublin, Ireland, October 5.
7. **Vanneste, S.** (2022) Patient Management beyond VAS Scores. How to manage habituation and loss of efficacy in clinical practice. 17th Neurostimulation-course, Barcelona, Spain, March 26.
8. **Vanneste, S.** (2022). The concept of Dosage in Neuromodulation Therapy. Understanding the role of different stimulation wave and types of waveform. 17th Neurostimulation-course, Barcelona, Spain, March 25.

9. **Vanneste, S.** (2022). The Brain scrutinized: Peripheral stimulation. BRAI3N scientific staff, Ghent, Belgium, February 17.
10. **Vanneste, S.** (2021). EEG & Tinnitus: How tinnitus can help to understand tinnitus. EU TINACT meeting, Lyngbe, Denmark, February 3.
11. **Vanneste, S.** (2021). Tinnitus & the brain. Tinnitus and Hyperacusis Masterclass 2021, UCL, London, January 27.
12. **Vanneste, S.** (2021). Tinnitus treatments related to the brain. Tinnitus and Hyperacusis Masterclass 2021, UCL, London, January 27.
13. **Vanneste, S.** (2021). The sensory prediction error in chronic tinnitus. University of Nottingham, Hearing science, January 26.
14. **Vanneste, S.** (2020). From acute to chronic tinnitus. British Tinnitus Association - Journal Club, December, London, December 17.
15. **Vanneste, S.** (2020). The potential of peripheral nerve stimulation to treat different neurological disorders IEEE engineering in Medicine and Biology society lectures – December Chicago, December 16.
16. **Vanneste, S.** (2020). Subtypes in tinnitus? Different neural mechanisms and the underlying model. Korea Tinnitus meeting, Seoul, November 6.
17. **Vanneste, S.** (2019). Bimodal peripheral nerve stimulation as an avenue to treat neurological disorders. IEEE EMBS Symposium and Workshop on Brain, Mind, and Body: Cognitive Neuroengineering for Health and Wellness. UC San Diego, December 19-20.
18. **Vanneste, S.** (2019). The peripheral effect of electrical stimulation on brain circuits involving memory. Oxford. Wellcome trust center for integrative neuroimaging. October 8.
19. **Vanneste, S.** (2019). Towards an Understanding of Tinnitus Heterogeneity. UC Irvine Center for Hearing Research, May 7.
20. **Vanneste, S.** (2019). Transcutaneous electrical stimulation enhances memory consolidation through peripheral nerve stimulation. UCSF Memory and Aging Center: Special Lecture. March 12.
21. **Vanneste, S.** (2018). Neurostimulation Approaches for Treating Tinnitus: Novel Stimulation Paradigms, Patient Subtyping, and Mechanisms of Action: Vagus Nerve Stimulation. American Academy of Otolaryngology - Head and Neck Surgery Foundation, 2018 Annual Meeting & OTO Experience in Atlanta, Georgia, October 7-10.
22. **Vanneste, S.** (2018). Trigeminal and vagus nerve stimulation for the treatment of phantom percepts. 2018 NYC Neuromodulation Conference and NANS Summer Series, August 24-26, 2018, New York City, USA.
23. **Vanneste, S.** (2018). High-Definition Transcranial Direct Current Stimulation of the Dorsal Anterior and Posterior Cingulate Cortex. 2018 NYC Neuromodulation Conference and NANS Summer Series, August 24-26, 2018, New York City, USA

24. **Vanneste, S.** (2018). The Underlying Effect of Burst Spinal Cord Stimulation on Chronic Pain using Multi-modal Neuroimaging: EEG, fMRI and PET. 2018 NYC Neuromodulation Conference and NANS Summer Series, August 24-26, 2018, New York City, USA
25. **Vanneste, S.** (2018). Pathophysiological differences in phantom sound: subtypes in tinnitus. 10th International Tinnitus Research Initiative Conference, March 13–16, 2018, Regensburg, Germany.
26. **Vanneste, S.** (2017). Top-down and bottom-up neuromodulation approaches to improve memory encoding and retrieval. December 7, Trinity College, Ireland.
27. **Vanneste, S.** (2017). Tuning the Brain: Neuromodulation as a Possible Panacea for treating certain brain conditions? November 18, Open Scholar's day, UT Dallas, USA.
28. **Vanneste, S.** (2017). Driving brain plasticity in a targeted and selective way: Insights from Research on Tinnitus and Fibromyalgia. January 24, Trinity College, Ireland.
29. **Vanneste, S.** (2015). Commonalities between fibromyalgia and tinnitus. Central Gating of Tinnitus and Chronic Pain, University of Munich, September 6th, Germany.
30. **Vanneste, S.** (2015). Influencing connectivity and cross-frequency coupling by real-time source localized neurofeedback of the posterior cingulate cortex reduces tinnitus related distress. University of Otago., Augustus 5th, New Zealand.
31. **Vanneste, S.** (2015). Log-dynamics in phantom sounds: Identify tinnitus subtypes and their neurobiological underpinnings. Regensburg. April 29th. Germany
32. **Vanneste S.** (2015). Fibromyalgia an enigma? Invited talk at Center for Longevity, The University of Texas at Dallas, April 6th, USA.
33. **Vanneste S.** (2015). Tuning the Brain: Neuromodulation as a Possible Panacea for treating non-pulsatile tinnitus? Invited Talk at Otolaryngology-2015, March 20th, Dubai.
34. **Vanneste, S.** (2014). How brain networks are involved in tinnitus. Invited talk at University Medical Hospital Groningen, November 28th, The Netherlands.
35. **Vanneste, S.** (2014). Tinnitus treatment: an overview. Invited talk at St-Augustinus Hospital, November 26th, Belgium.
36. **Vanneste, S.** (2014). Robbed of silence by tinnitus: How the brain is involved in tinnitus? Invited talk Texas Audiology Association, October 24th, Austin, USA.
37. **Vanneste, S.** (2014). Tuning the Brain: Neuromodulation as a Possible Panacea for treating certain brain conditions? Invited talk at The University of Minnesota, May 1st, USA
38. **Vanneste, S.** (2014). Center for Brain Health: A Bayesian perspective of why the brain generates a phantom percept and neuromodulation as a possible panacea. Invited talk at The University of Texas at Dallas, February 14th, USA
39. **Vanneste, S.** (2013). Flash: series: Why does the brain generate tinnitus? Invited talk at The University of Texas at Dallas, September 27th, USA
40. **Vanneste, S.** (2013). Neuromodulation as a tool to understand Tinnitus. Invited talk at The University of Auckland, June 19th, New Zealand.

41. **Vanneste S.** (2013). Forensische neurobiologische behandeling. Symposium: Schuld onder de Schedel, May 31th, Ghent University, Belgium.
42. **Vanneste, S.** (2013). The neural correlates of tinnitus. Invited talk at the University of Buenos Aires, February 4th, Argentina.
43. **Vanneste, S.** (2012). Application of rTMS and Neurofeedback in Speech and Hearing Sciences. Invited talk Hong Kong Speech and Hearing Symposium. October 6th, Hong Kong.
44. **Vanneste, S.** (2012). Neuroimaging and Neuromodulation: Complementary Approaches for Identifying the Neuronal Correlates of Tinnitus. September 19th. Invited talk the University of Texas at Dallas, USA.
45. **Vanneste, S.** (2012). The neuroscience of tinnitus. September 7th. Invited talk the Harvard Medical School, Cambridge, USA.

Conferences & Meetings

1. Nyamayaro, P., **Vanneste, S.**, & Chibanda D. (2023). Adaptation of Smartbrain: a cognitive training program for adults ageing with HIV in Harare, Zimbabwe. Conference for Healing the brain- Bridging the gap in low & middle income countries. November 15-17. Nairobi, Kenya.
2. Adcock, K. & **Vanneste, S.** (2023). Using deep-learning to predict tinnitus patients outcome. 12th International Tinnitus Research Initiative Conference, June 6-9, Dublin, Ireland.
3. Arulchelvan, E. & **Vanneste, S.** (2023). Using a novel tES approach to diminish accelerated long-term forgetting in aMCI. School of Psychology Research Symposium, March 7, Dublin, Ireland
4. Chiang, H.S., Frattoloni, J., **Vanneste, S.**, Kraut, M. & Hart J. (2022) Treating word finding difficulty in multiple sclerosis using high-definition transcranial direct current stimulation targeting the pre-Supplementary Motor Area. 2022 Annual Meeting – American Academy of Neurology, April 2-7, Seattle, USA.
5. Lim H., Hamilton C., Hughes S., Meade, E., Schecklmann, M., Subramaniam, T., **Vanneste, S.**, Hall, D., Langguth, B. & Conlon B. (2019). Long-term benefits with combined sound and trigeminal nerve stimulation for the treatment of tinnitus. 64th International Congress of Hearing Aids Acousticians, October 16- 18, Nuremberg, Germany.
6. Mohan. A., Luckey, A. & **Vanneste, S.** (2019). Altered predictive coding in phantom perception reflecting maladaptive changes in the brain. TRI Neurostimulation workgroup meeting, September 30 - October 1, Barcelona.
7. Lim H., Hamilton C., Hughes S., Meade, E., Schecklmann, M., Subramaniam, T., **Vanneste, S.**, Hall, D., Langguth, B. & Conlon B. (2019). Safety and Efficacy of Combined Sound and Trigeminal Nerve (Tongue) Stimulation to Treat Tinnitus: Effects of Different Stimulation Settings over Time. ARO 43rd MidWinter Meeting, January 25-29, San Jose, USA.
8. Lim H., Hamilton C., Hughes S., Meade, E., Schecklmann, M., Subramaniam, T., **Vanneste, S.**, Hall, D., Langguth, B. & Conlon B. (2019). Reproducible and Long-Term Efficacy of a New Treatment for

- Tinnitus Evaluated in over 500 Participants. British Academy of Audiology, 16th annual conference, November 14-15, Liverpool.
9. Lim, H., Hamilto, C. Hughes, S., Meade, E., Schecklmann, M., Subramaniam, T., **Vanneste, S.**, Hall, D., Langguth, B. Conlon, B. (2019). Reproducible and long-term efficacy of a new treatment for tinnitus. America Auditory Society Meeting, February 28 – March 2, Scottsdale, AZ, USA.
 10. **Vanneste, S.** (2019). Enhancing rehabilitative therapies with vagus and trigeminal nerve stimulation to treat neurological disease: Lessons learned from Tinnitus. 3rd International Brain Stimulation Conference, February 24-27 2019, Vancouver, Canada.
 11. **Vanneste, S.** (2019). Clinical translation of VNS therapy for tinnitus patients. 3rd International Brain Stimulation Conference, February 24-27 2019, Vancouver, Canada.
 12. Lim, H., Hamilto, C. Hughes, S., Meade, E., Schecklmann, M., Subramaniam, T., **Vanneste, S.**, Hall, D., Langguth, B. Conlon, B. (2019). Reproducible and Long-Term Efficacy in Over 500 Patients of a New Treatment for Tinnitus. American Audiology Association, March 27-30, Columbus, OH.
 13. Conlon, B., Langguth, B., Hamilton, C., Hughes, S., **Vanneste, S.**, Hall, D. A., Langguth, B., Lim, H. H. (2019). Safety and Long-Term Efficacy of a New Bimodal Sensory Neuromodulation Treatment for Tinnitus Evaluated Through a Randomized Clinical Trial in 326 Patients. 42nd Midwinter Meeting. Association for Research in otolaryngology. February 9-13, Baltimore, USA.
 14. Stoeckl-Drax, T., **Vanneste, S.**, Langguth, B., Mielke, S., De Ridder, D. (2018). Hypermirroring – a novel empathy disorder or a gift? Proceedings of the 19th World Congress of Psychophysiology (IOP 2018) of the International Organization of Psychophysiology (IOP) Lucca, Italy September 4th to 8th 2018.
 15. Leong, S. L., **Vanneste, S.**, Lim, J., Smith, M., Manning, P., De Ridder, D. & Stoeckl-Drax, T. (2018). Effects and Side Effects of Infralow Network Neurofeedback (ISF-NF): a randomised double-blind placebo-controlled trial. Proceedings of the 19th World Congress of Psychophysiology (IOP 2018) of the International Organization of Psychophysiology (IOP) Lucca, Italy September 4th to 8th 2018.
 16. Conlon, B., Hamilton, C., Hughes, S., **Vanneste, S.**, Hall, D. A., Langguth, B., Lim, H. H. (2018). Safety and efficacy of a new bimodal sensory neuromodulation treatment for tinnitus evaluated through a randomized clinical trial in 326 patients. World Congress of Audiology in South Africa, October 28 – 31, 2018, Cape Town, South Africa.
 17. Tyler, R. S., Cacace, T., Seidman, M., Stocking, C., **Vanneste, S.** & Tarver, B. (2018). A Prospective Randomized Double-blind Controlled Clinical Study Using Vagus-Nerve Stimulation Paired with Tones for the Treatment of Tinnitus. 10th International Tinnitus Research Initiative Conference, March 13-16, 2018, Regensburg, Germany.
 18. Song, J. J., **Vanneste, S.**, De Ridder, D. (2018). Hearing loss may induce tinnitus by strong auditory memory and increased vigilance: a qEEG study on the relationship between hearing loss and tinnitus. 10th International Tinnitus Research Initiative Conference, March 13-16, 2018, Regensburg, Germany.
 19. Lim, H., Hamilton, C., Hughes, S., **Vanneste, S.**, Hall, D. A., Langguth, B., Conlon, B. (2018). Exploratory clinical trial for a new bimodal neuromodulation treatment from tinnitus: Positive results

- from 326 tinnitus patients for the Treatment of Tinnitus. 10th International Tinnitus Research Initiative Conference, March 13-16 2018, Regensburg, Germany.
20. Ahmed, S. & **Vanneste, S.** (2018). An investigational study on effect of burst stimulation on chronic pain in EEG, fMRI and PET. 2018 NANS Annual Meeting, January 11-14, 2018, Las Vegas, USA.
 21. Ahmed, S. & **Vanneste, S.** (2017). The Underlying Effect of Burst Stimulation on Chronic Pain using Multi-modal Neuroimaging: EEG, fMRI and PET. Congress of Neurological Surgeons, October 7–11, 2017 in Boston, USA.
 22. Song, J-J., Jang, J.H., Koo, J-W., **Vanneste, S.** & De Ridder, D. (2017). Changes in the resting-state cortical oscillatory activity 6 months after modified tinnitus retraining therapy. May 22-24, 2017, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland.
 23. Song, J-J., Chang, M.Y., Koo, J-W., De Ridder, D. & **Vanneste, S.** (2017). Hearing loss may induce tinnitus by strong auditory memory and increased vigilance: a qEEG study on the relationship between hearing loss and tinnitus. May 22-24, 2017, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland.
 24. Shekhawat, G.S. & **Vanneste, S.** (2017). Optimization of Transcranial Direct Current Stimulation for Tinnitus Management. May 22-24, 2017, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland.
 25. Mohan A.M., De Ridder D., **Vanneste S.** (2016). Emerging network connectomics in phantom sound perception. 10th International Tinnitus Research Initiative Conference and 1st EU Cost Action (TINNET) Conference, March 16-18, 2016, TRI 2016, Nottingham, U.K.
 26. Maudoux A., Gomez F., De Ridder D., Vanhecke W., Van de Heyning P., Cabay J.-E., Laureys S., Soddu A., Lefebvre P.H., **Vanneste S.** (2016). Hearing tinnitus and reacting to tinnitus: two processes involving different networks. 10th International Tinnitus Research Initiative Conference and 1st EU Cost Action (TINNET) Conference, March 16 – 18, 2016, TRI 2016, Nottingham, U.K.
 27. Song, J.J., **Vanneste, S.**, De Ridder, D. & Jang, J. H. (2016). Improvement of tinnitus loudness and distress after modified tinnitus retraining treatment. 10th International Tinnitus Research Initiative Conference and 1st EU Cost Action (TINNET) Conference, March 16-18. 2016, TRI 2016, Nottingham, U.K.
 28. Tyler, R., **Vanneste, S.**, Stocking, C. & Cacace, A. (2015). Vagus Nerve Stimulation (VNS) paired with tones for treatment of tinnitus. June 7-10, TRI 2015, Ann Arbor, Michigan.
 29. Tyler, R. & **Vanneste, S.** (2015). Vagus Nerve Stimulation paired with tones for the treatment of tinnitus. Audiology Now, March 25–28, San Antonio, TX.
 30. Song, J., **Vanneste, S.**, Jang, J. H., De Ridder, D. (2014). Dysfunctional noise cancelling of the rostral anterior cingulate cortex in tinnitus patients. Kyoto Inner Ear Biology meeting on November 3, Kyoto, Japan.
 31. **Vanneste, S.**, De Ridder, D. & Song, J. (2014). Toward an Objectification of tinnitus: Machine Learning approach of resting-cortical oscillation pattern can detect the presence of tinnitus. Kyoto Inner Ear Biology meeting on November 3, Kyoto, Japan.

32. **Vanneste, S.** De Ridder, D. & Joos, K. (2014). Modulating alpha and beta oscillations within posterior cingulate cortex through real-time source localized neurofeedback and its effect on tinnitus related distress. March 13-15, TRI 2014, Auckland New-Zealand.
33. De Ridder, D., Congedo, M., & **Vanneste, S.** (2014). Parahippocampal-auditory cortex communication in tinnitus. March 13-15, TRI 2014, Auckland New-Zealand.
34. **Vanneste, S.** (2013). Vector machine learning as a tool for the find an objective measure for tinnitus. Neurostimulation workgroup, October 27, University Paris, Paris, France Belgium.
35. De Ridder, D. & **Vanneste, S.** (2013). How and why the brain generates subjective tinnitus with and without hearing loss, University of Auckland, August 9, Auckland, New Zealand.
36. De Ridder, D. & **Vanneste, S.** (2013). Similarities between tinnitus and pain. Neurological foundation, University of Auckland, June 4, Auckland, New Zealand.
37. De Ridder, D. & **Vanneste, S.** (2013). Stimulating the brain as a panacea for mental disorders: hubris or stupidity? University of Otago, June 1, Dunedin, New Zealand.
38. De Ridder, D. & **Vanneste, S.** (2013). Non-invasive neuromodulation: Merely Investigational or treatment tool. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
39. De Ridder, D. & **Vanneste, S.** (2013). Phantom perceptions. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
40. De Ridder, D. & **Vanneste, S.** (2013). An integrative model of auditory phantom perception: Tinnitus as a unified percept of interacting separable subnetworks. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
41. de Vos, C., Bom, M., **Vanneste, S.**, Lenders, M. & De Ridder, D. (2013). Burst Spinal Cord Stimulation evaluated in patients with Failed Back Surgery Syndrome and Painful Diabetic Neuropathy. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
42. Plazier, M., **Vanneste, S.** & De Ridder, D. (2013). Occipital nerve stimulation in fibromyalgia: A 6 month's follow-up study on a group of 25 patients. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
43. Plazier, M., **Vanneste, S.** & De Ridder, D. (2013). A window to the brain during occipital nerve stimulation in Fibromyalgia patients: a PET scan study. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
44. Van Havenbergh, T., Van Paesschen, R., De Smedt, K., Berghmans D., **Vanneste S.**, Vancamp, T. (2013). A single-center experience with a five-column paddle lead. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
45. Wahlstedt, A., Leljeval E., Vancamp, T. & **Vanneste, S.** (2013). Reproducibility and feasibility of burst stimulation: preliminary results. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
46. De Ridder, D., Joos, K., Van Looy, P. & **Vanneste, S.** (2013). The cingulate cortex as target for tinnitus treatment. 7th International TRI conference: Valencia, Spain.

47. Joos, K., **Vanneste, S.**, De Ridder, D. (2013). Random noise transcranial stimulation vs. tDCS vs. tACS: single session and multiple session data. 7th International TRI conference: Valencia, Spain.
48. **Vanneste, S.**, Joos, K., De Ridder, D. (2013). Towards an objectivation of tinnitus: Machine learning approach of resting state electrical brain activity can detect the presence of tinnitus. 7th International TRI conference: Valencia, Spain.
49. Elgoyhen, A. B., Langguth, B., Novak, W., Schecklmann, M., De Ridder, D. & **Vanneste, S.** (2013). Tinnitus as Side Effect: a Drug-Target Network Analysis. 7th International TRI conference, Valencia, Spain.
50. Song, J. J., De Ridder, D., Van de Heyning, P. & **Vanneste, S.** (2013). "Default hyperresponsiveness network": neural substrates of hyperacusis and analogical interpretation of allodynia/hyperalgia. 7th International TRI conference, Valencia, Spain.
51. **Vanneste, S.** (2013). Using TMS as a diagnostic and treatment tool for tinnitus: different targets. Meeting Mica group, February 22nd, Antwerp, Belgium.
52. Song, J. J., De Ridder, D., Schlee, W. Van de Heyning, P. & **Vanneste, S.** (2013). "Distressed aging": The differences in brain activity between early- and late onset tinnitus. 36th Annual midwinter meeting ARO, February 16-20, Baltimore, USA
53. Song, J. J., De Ridder, D., Van de Heyning, P. & **Vanneste, S.** (2013). Resting Cortical Oscillations Predict Hyperacusis: A Hyperresponsiveness Network with Inactive Auditory Cortex at Rest. February 16-20, Baltimore, USA
54. **Vanneste, S.** (2013). Multisensory stimulation for the treatment of tinnitus. Meeting Sins group, January 29th, Delft, The Netherlands.
55. Azevedo, A., **Vanneste S.**, & De Ridder, D. (2012.) The effect of naltrexone on the perception and distress in tinnitus: an open label study. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
56. Kilgard M.P., Vrana W.A., Borland M.S., **Vanneste, S.**, De Ridder, D., Sloan A.M. & Rennaker, R.L. (2012). Optimizing VNS-Directed Neural Plasticity for the Treatment of Chronic Tinnitus. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
57. Maudoux, A., **Vanneste, S.**, De Ridder, D., Vanhecke, W., Van de Heyning, P., Cabay, J.E., Demertzi, A., Laureys S., Soddu, A., Lefevre, P., Gomeze, F. (2012). Investigating the tinnitus brain using resting state fMRI. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
58. Schlee, W., **Vanneste, S.**, De Ridder, D., Langguth, B. & Kolassa, I.-J. (2012). Do aging processes affect tinnitus perception and distress? 6th International TRI conference: The art and science of innovation. Bruges Belgium.
59. Song J.J., **Vanneste S.**, Van de Heyning P. & De Ridder D. (2012). "Distressed aging": The differences in brain activity between early- and late onset tinnitus. 6th International TRI conference: The art and science of innovation. Bruges Belgium.

60. **Vanneste, S.**, Kilgard, M., Engineer, N., Tarver, W. B., De Ridder, D. (2012). Paired vagus nerve stimulation for tinnitus – pilot study results. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
61. De Ridder, D., & **Vanneste, S.** (2011). Frontal & Parietal TMS. X International Tinnitus Seminar. March 16 to 19, Florianopolis – Santa Catarina, Brazil.
62. De Ridder, D., **Vanneste, S.**, Joos, K. & Van de Heyning (2001). The (para)hippocampus as the central hub in tinnitus: Binding intensity, mood, cognition and distress. 5th International TRI conference: The Neuroscience of Tinnitus, State University New York at Buffalo.
63. Kilgard, M. P., **Vanneste, S.**, De Ridder, D., Vrana, W., Engineer, N., Broaland, M., Nichols, J., Atzori, M., Sloan, A., Rennaker, R. (2011). Directing cortical plasticity to understand and treat tinnitus. 5th International TRI conference: The Neuroscience of Tinnitus, State University New York at Buffalo.
64. **Vanneste, S.** (2011). Workshop on tDCS, TMS and sLoreta EEG, Department of Neurosurgery, Anam Hospital, Korea University College of Medicine, Seoul, Korea, May 1-8 2009. Invited Speaker.
65. **Vanneste, S.** (2011). Workshop on TMS & tDCS in Tinnitus, Asan Medical Center, University of Ulsan, Seoul, South Korea Hokkaido University, April 30 to May 07. Invited Speaker
66. **Vanneste, S.**, Joos, K., Van de Heyning, P., De Ridder, D. (2011). Tinnitus as an emergent property of multiple parallel dynamically changing and partially overlapping brain networks: The role of the emotional network. 5th International TRI conference: The Neuroscience of Tinnitus, State University New York at Buffalo.
67. **Vanneste, S.** (2010). 4th TRI Meeting “Frontiers in Tinnitus Research” from June 8-11, 2010, in Dallas, Texas, USA. Talk: A network approach for understanding tinnitus pathology
68. **Vanneste, S.** (2010). 4th TRI Meeting “Frontiers in Tinnitus Research” from June 8-11, 2010, in Dallas, Texas, USA. Talk: Correlation between tDCS, TMS and TENS: are some brains more responsive than others to neuromodulation.
69. **Vanneste, S.** (2010). Acute versus chronic tinnitus. Neurostimulation workgroup, October 29, Université Paris-Descartes, Faculté de Médecine, Hôpital Européen Georges Pompidou Paris, France.
70. **Vanneste, S.** (2010). Filling the Gap. December 8, 2010. University of Regensburg, Regensburg, Germany.
71. **Vanneste S.** (2009). 3rd TRI Meeting "From Clinical Practice to Basic Neuroscience and Back - An international conference on 'Tinnitus'", from June 24th to 26th, 2009, in Stresa, Italy, Talk: Neural correlates of distress in tinnitus.
72. **Vanneste S.** (2009). 3rd TRI Meeting "From Clinical Practice to Basic Neuroscience and Back - An international conference on 'Tinnitus'", from June 24-26 in Stresa, Italy. Talk: The relationship between tinnitus intensity and tinnitus related distress.
73. **Vanneste, S.** (2009). Burst TMS for tinnitus. Neurostimulation workgroup, April 21, University Antwerp, Antwerp, Belgium.

74. **Vanneste, S.** (2009). International neuromodulation society 9th world congress 11-15 September, Seoul, South Korea. Talk: Transcranial direct current stimulation: a Preliminary study 4.
75. **Vanneste, S.** (2009). The neural correlates of distress. Neurostimulation workgroup, April 20, University Antwerp, Antwerp, Belgium.
76. **Vanneste, S.** (2009). The neural correlates of tinnitus. Opening TRI-center, April 22, University Hospital, Antwerp, Antwerp, Belgium
77. **Vanneste, S.** (2009). Workshop Centre for intellectual property (CIR) KU Leuven, Leuven, February 20.
78. **Vanneste, S.** (2009). Workshop on Cheater/Cooperator Detection, Sapporo, Hokkaido University, March 29-30 2009. Invited Speaker.
79. Depoorter, B., & **Vanneste, S.** (2006). Norms and Enforcement: The Case against Copyright Litigation. Workshop on Law and Economics. University of Hamburg.
80. Van Hiel, A. & **Vanneste, S.** (2006). From tragedy to disaster: Welfare effects of commons and anticommons dilemmas. Abstracts of the IAREP-SABE Conference, 309, Sorbonne.
81. **Vanneste, S.** & Braeckman, J. (2006). You can judge a book by its cover: The sequel. A kernel of truth in predictive cheating detection. 18th Annual conference by the Society for Human Behavior and Evolution, 53. University of Pennsylvania.
82. **Vanneste, S.** & Depoorter, B. (2006). Gentle nudges v. hard shoves: an empirical study on the conflict between norms and enforcement in copyright law. Abstracts of the IAREP-SABE Conference, 85. Sorbonne.
83. **Vanneste, S.** (2006). Buyer-seller transactions under the anticommons property regime. *Paper presented at 5th Tilburg Symposium on Psychology and Economics: Games and Decisions*, University of Tilburg.
84. **Vanneste, S.** (2006). Gentle nudges v. hard shoves: an empirical study on the conflict between norms and enforcement in copyright law. Annual meeting of the Belgian Association for Psychological Science, 84, Université Liege.
85. Dare-Mattiacci, G., **Vanneste, S.**, and Van Hiel, A. (2005). Anticommons and the most-favored-nation Clause. Erasmus Law and Economics Conference, Ghent University.
86. Depoorter, B., & **Vanneste, S.** (2005). Gentle Nudges v. Hard Shoves in Copyright Law: An Empirical Study on the Conflict between Norms and Enforcement Canadian Association of Law & Economics Annual Conference, University of Toronto.
87. Depoorter, B., & **Vanneste, S.** (2005). Gentle Nudges v. Hard Shoves in Copyright Law: An Empirical Study on the Conflict between Norms and Enforcement. Latin American Association of Law & Economics Annual Conference, U.C. at Berkeley.
88. Depoorter, B. & **Vanneste, S.** (2004). *Copyright Enforcement: Gentle Nudges or Hard Shaves. Casle working paper session*, Ghent University.
89. Depoorter, B. & **Vanneste, S.** (2004). *Copyright Enforcement: Gentle Nudges or Hard Shaves. Works in Progress Intellectual Property Colloquium*, Boston College.

90. Depoorter, B., & **Vanneste, S.** (2004). Copyright Litigation Impossibility. George Mason Law School, Arlington, VA.
91. Depoorter, B., & **Vanneste, S.** (2004). Gentle Nudges v. Hard Shoves in Copyright Law: An Empirical Study on the Conflict between Norms and Enforcement. Boston University School of Law, MA, WPIP Workshop.
92. **Vanneste, S.** & Bouckaert, B. (2004). Restrictions on real estate market in Central- and East-European Enlargement Counties: An Explanatory Theory. *Casle working paper session, Ghent University*
93. **Vanneste, S.**, Van Hiel, A., Parisi, F., Depoorter, B., & Mervielde, I. (2004). From "tragedy" to "disaster": Welfare effects of commons and anticommons dilemmas. *3rd Tilburg Symposium on Psychology and Economics: Games and Decisions*, University of Tilburg.
94. **Vanneste, S.** & Depoorter, B. (2003). Putting Humpty Dumpty back together: experimental verification of the anticommons tragedy. *Casle working paper session*, Gent University.

Popular scientific talks

1. **Vanneste S.** (2022). Science café: Brain stimulation. University Ghent, Bruges, Belgium, April 19.
2. **Vanneste, S.** (2021). Tinnitus: diagnostics and treatment? Howest, Bruges, November 19.
3. **Vanneste, S.** (2020). Insight into tinnitus? Howest, Bruges, November 20.
4. **Vanneste, S.** (2020). Het geheugen ontrafeld/Unraveling memory. Breinwijzer, Ghent, October, 22.
5. **Vanneste S.** (2013). Forensische neurobiologische diagnose & behandeling: een toekomst visie. Symposium: Schuld onder de Schedel, May 31, Gent.
6. **Vanneste S.** (2013). Neuromodulatie als een potentiële behandeling voor verslaving. Stedelijk Overlegplatform Drugs Antwerpen (SODA), May 21, Antwerpen.

Posters

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1. Adcock, K., Meade, E. Leong, S. L. , Lim, H. & **Vanneste, S.** (2023). Towards precision medicine for tinnitus: Feasibility of deep learning to predict patient outcomes. Computational Psychiatry Conference July 6-8. Dublin, Ireland
 2. Byczynski, G., Lochbihler, A., Grootjans, Y., Knight, M., Arulchelvan, E., Scarlat, J. S., Gillan, G., Lopez Escamez, J. A., **Vanneste, S.** (2023). Using Multidimensional Psychiatry to Assess Transdiagnostic Genetic Overlap. Computational Psychiatry Conference July 6-8. Dublin, Ireland
 3. Chen, F., **Vanneste, S.** & Yasoda-Mohan, A. (2023). Resistance to Update Internal Contexts during Auditory Prediction Error (PE) Processing Underlying the Mechanism of Chronic Tinnitus. 12th International Tinnitus Research Initiative Conference, June 6-9, Dublin, Ireland.
 4. Ó Sé, C., Yasoda-Mohan, A., Chen, F., Allard, R., Ost, J. & **Vanneste, S.** (2023). Auditory Uncertainty Increases Susceptibility to Visual Illusion. 12th International Tinnitus Research Initiative Conference, June 6-9, Dublin, Ireland.

5. Arulchelvan, E. & **Vanneste, S.** (2023). Using a novel tES approach to diminish accelerated long-term forgetting in aMCI. School of Psychology Research Symposium, March 7, Dublin, Ireland.
6. Byczynski, G & **Vanneste, S.** (2023). Investigating the Effect of Peripheral Nerve Stimulation on Motor Learning. School of Psychology Research Symposium, March 7, Dublin, Ireland.
7. Chiang H. S., Kraut, M., **Vanneste, S.** & Hart, J. (2021) Modulation of the superior medial frontal cortex using anodal high-definition transcranial direct current stimulation affects frontal midline theta oscillations during a Go-Nogo task in veterans with chronic traumatic brain injury. Brain stimulation conference, December 6-9th, Charleston, USA.
8. van Dijk, P., Adjamian, P, Hall, D., de Kleine, E., Maudoux, A., Toffanin, P. TINNET MRI study group: P. Adjamian, P. Brüggemann, A. Cacace, Y.-C. Chen, E. De Kleine, E. Diesch, S. Francis, P. Gander, A. Gilles, H. Guest, D. Golm, D., Hall, S. Hebert, A. Holt, F. Husain, P. Hyvärinen, E. Koops, D., Langers, C. Lanting, P. Lau, A. Londero, A. Leaver, A. Maudoux, B.-K. Min, P. Neff, A. Norena, M. Pedemonte, T. Poepl, O. Profant, J. Rauschecker, L. Renier, L. Roberts, R. Salvi, R. Schaette, M., Schecklmann, W. Schlee, S. Schmidt, G. Searchfield, W. Sedley, A. Seydell-Greenwald, J.-J. Song, S. Shore, P. Tass, R. Tyler, P., Van Dijk, **S. Vanneste**, E. Wallhaeusser-Franke, N. Weisz, M., Wrzosek, C.-W. Yu. (2018). Consensus on MRI studies in tinnitus: a TINNET Delphi. 10th International Tinnitus Research Initiative Conference, 13–16th March 2018, Regensburg, Germany.
9. Hullfish, J., Abenes, I, Kovacs, S. Sunaert, S., De Ridder, D. & **Vanneste, S.** (2018). Predictive-brain mechanisms of phantom perception pathology. 10th International Tinnitus Research Initiative Conference, 13–16th March 2018, Regensburg, Germany.
10. Anusha, M., De Ridder, D. & **Vanneste, S.** (2018). Distress-dependent temporal binding of regions encoding disorder-specific and disorder-general behavioral manifestations of phantom percepts. 10th International Tinnitus Research Initiative Conference, 13–16th March 2018, Regensburg, Germany.
11. Ahmed, S. & **Vanneste, S.** (2017). The Underlying Effect of Burst Stimulation on Chronic Pain using Multi-modal Neuroimaging: EEG, fMRI and PET. Congress of Neurological Surgeons, 7–11th October 2017 in Boston, USA.
12. Leong, S. K., De Ridder, D., **Vanneste, S.**, Sutherland, W., Ross, S., Manning, P. (2017). Effect of transcranial pink noise stimulation of dorsal anterior cingulate cortex on food craving. 2nd International Brain Stimulation Conference, 5 - 8 March 2017, Barcelona, Spain
13. Ross, S., **Vanneste, S.**, De Ridder, D. & Manning, P. (2016). qEEG Investigation of the Neural Correlates of Obesity and Food Addiction. 31 Oct – 4 Nov, Obesity week, New Orleans, USA.
14. Yearwood, T., Falowski, S., Venkatesan, L. & **Vanneste, S.** (2016). Comparison of Neural Activity during Tonic and Burst Spinal Cord Stimulation: A SUNBURST Substudy. NANS and NIC Joint Meeting, June 25-29, Baltimore, USA.
15. Adjamian P., Cederroth C.R., Gallus S., Hall D.A., Langguth B., Kleinjung T., Lopez-Escamez J.A., Mazurek B., Meyer M., Moriotti A., Norena A., Probst T., Schlee W., Searchfield G., Shekhawat R., Van Dijk P., **Vanneste S.**, Weisz N. (2016). Frontiers Research Topic: Towards an Understanding of

- Tinnitus Heterogeneity. 10th International Tinnitus Research Initiative Conference and 1st EU Cost Action (TINNET) Conference, 6th – 18th March 2016, TRI 2016, Nottingham, U.K.
16. Alsaman, O., Yoo, Hye Bin, Mohan, A. & **Vanneste, S.** (2015). Acute autonomic, endocrine, and immune stress related responses in tinnitus. June 7-10, TRI 2015, AnnArbor, Michigan.
 17. Das, T., **Vanneste, S.**, Piarulli, A., Moirhomme, Q., Laureys, S., Owen, A. M., De Ridder, D. & Soddu, A. (2015). Complexity and Missing information measures in tinnitus. June 7-10, TRI 2015, AnnArbor, Michigan.
 18. Pajuelo, A., De La Calle-Gil, A., Peña, A., **Vanneste, S.** & Vancamp, T. (2015). Targeted Spinal Cord Stimulation for Localized Pain Syndromes: First Spanish Experiences and Outcomes. 12th International Neuromodulation Society World Congress, 6-11 June, Montreal, Canada.
 19. Van Camp, T., De Ridder, D. & **Vanneste, S.** (2015). From Tonic to Burst: Re-capturing Pain Relief.
 20. De Coster, O., Barbe, E., Kesteloot, G., **Vanneste S.**, Vancamp, T. (2013). Electrophysiological evaluation of different static postures using a constant current device. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 21. de Vos, C., Bom, M., **Vanneste, S.**, Lenders, M. & De Ridder, D. (2013). Burst Spinal Cord Stimulation evaluated in patients with Failed Back Surgery Syndrome and Painful Diabetic Neuropathy. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 22. Logé, D., De Coster, O., Van Eynde, R., **Vanneste S.**, Vancamp, T. (2013). Neurostimulation efficacy: a Belgian multi-center experience from 2004 to 2012. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 23. Plazier, M., Snijders, E., Gilbers, M., Van Camp, T., Ost, J., **Vanneste, S.**, Menovsky T., Van Havenbergh, T. & De Ridder, D. (2013). Occipital nerve stimulation changes the Laser Evoked potentials: a clue to what happens in the brain. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 24. Plazier, M., **Vanneste, S.**, Ots, J., Menovsky, T., Stassijns, G. & De Ridder, D. (2013). efficacy of greater occipital nerve stimulation in the treatment of fibromyalgia. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 25. Van Havenbergh, T., Van Paesschen, R. De Smedt, K. Beghmans, D., Vanneste, S. Van Camp, T. (2013). A single-center experience with a five-column paddle lead. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 26. Vancamp, T., **Vanneste, S.**, Salaun, B., Lenders, M. W. P. M, Plazier, M., Menovsky, T., De Ridder, D. (2013). Preliminary outcomes with a new stimulation design: respond comparison and budget impact modelling. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
 27. Wahlstedt, A., Leljevalh E., Vancamp, T. & **Vanneste, S.** (2013). Reproducibility and feasibility of burst stimulation: preliminary results. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.

28. Joos, K., **Vanneste, S.** & De Ridder, D. (2013). The enigma of the tinnitus-free dream-state. Data from 100 questionnaires and its implications for the pathophysiology of tinnitus. 7th International TRI conference: Valencia, Spain.
29. Joos, K., **Vanneste, S.** & De Ridder, D. (2013). Multisensory congruence treatment for tinnitus. 7th International TRI conference: Valencia, Spain.
30. Kreuzer, P.M., Landgrebe, M., Schecklmann, M., Staudinger, S., Langguth, B. and the TRI Database Study Group: Vielsmeier, V., Kleinjung, T., Lehner, A., Poepl, T. B., Figueiredo, R., Azevedo, A., Binetti, A. C., Elgoyhen, A. B., Rates, M., Coelho, C., **Vanneste, S.**, De Ridder, D., Van de Heyning, P., Zeman, F., Mohr, M., Koller, M. (2013). Hyperacusis in tinnitus: A TRI database analysis. 7th International TRI conference: Valencia, Spain.
31. Song, J. J., De Ridder, D., Weisz, H., Schlee, W., Van de Heyning, P. & **Vanneste, S.** (2013). Pathological oscillations in Hyperacusis brain events without sound stimuli: A hyperresponsiveness network with paradoxically inactive auditory cortex. 7th International TRI conference: Valencia, Spain.
32. de Vos, C., Bom, M., **Vanneste, S.**, Lenders, M. & De Ridder, D. (2013). Burst Spinal Cord Stimulation evaluated in patients with Failed Back Surgery Syndrome and Painful Diabetic Neuropathy the Fourth International Congress on Neuropathic Pain, Toronto, Canada, May 23 – 26.
33. Pickut, B., Van Hecke, W., Kerckhofs, E., **Vanneste, S.**, Cras, P., Parizel, P. M. (2013). Mindfulness based intervention in Parkinson's leads to increases in gray matter density. 65th AAN Annual Meeting in San Diego, USA, March 16–23.
34. Gilles, A., **Vanneste, S.**, De Ridder, D., Van de Heyning, P. (2012). Central activity in a young tinnitus population: A QEEG analysis. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
35. Logé, D., **Vanneste, S.**, Vancamp T. & De Ridder, D. (2012). Percutaneously implanted plate electrodes: a long-term follow-up of 23 patients. Poster presented at 6th World Congress of the World Institute of Pain Miami Beach, Florida, USA, February 4-6, 2012.
36. Song J.J., **Vanneste S.**, Van de Heyning P. & De Ridder D. (2012). Lessons from two ALE meta-analysis of PET studies on tinnitus and cochlear implants. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
37. Song, J. J., Staelens, S., Deleye, S., Gilles, A., Mertens, G., de Bodt, M., **Vanneste, S.**, De Ridder, D., & Van de Heyning, P. (2012). Diagnosis of Conversion Deafness in a Cochlear Implant Patient: Possible Role of Functional Imaging, B-ENT, Belgium, March 24, 2012.
38. Song, J. J., Staelens, S., Deleye, S., Gilles, A., Mertens, G., de Bodt, M., **Vanneste, S.**, De Ridder, D., & Van de Heyning, P. (2012). Diagnosis of Conversion Deafness in a Cochlear Implant Patient: Possible Role of Functional Imaging. 7th International symposium on Objective Measures in Auditory Implants in Amsterdam, September 19-22, 2012.
39. Song, J. J., **Vanneste, S.**, Gilles, A., Mertens, G., de Bodt, M., De Ridder, D., & Van de Heyning, P. (2012). EEG measurements as an objective measure for tinnitus patients with a Cochlear Implant

Patient: Possible Role of Functional Imaging, 7th International symposium on Objective Measures in Auditory Implants in Amsterdam, September 19-22, 2012.

40. Hiseni S., Sawigun, C., Vanneste, S., van der Velden, E4, De Ridder, D, & Serdijn, W. A. (2011). A Nano Power CMOS Tinnitus Detector for a Fully Implantable Closed-Loop Neurodevice. *Conference on Biomedical circuits and system*.
41. Logé, D., **Vanneste, S.**, Vancamp T. (2011). A long-term follow-up of 6 patients implanted with a perc-paddle lead. Poster presented at the INS congress, London.
42. Schecklmann, M., **Vanneste, S.**, De Ridder, D., Kreuzer, P. Pöpl T. B., Langrebe M., Langguth, B. (2011). Clinical improvement and normalization of deviated brain activity by individualized rTMS in a patient with chronic tinnitus and facial pain. 5th International TRI conference: The Neuroscience of Tinnitus, State University New York at Buffalo. Poster Presentation.

Clinical trials

1. Electrical Stimulation of the Intralaminar Nuclei of the Central Thalamus for Improvement of Disability Due to Post-traumatic, Chronic, Severe to Moderately Severe Cognitive Impairment: A Feasibility Study (Stim-CTI). Antwerp Belgium.
2. A Proof-of-Concept Pilot Study Assessing Vagus Nerve Stimulation (VNS) Paired with Tones for Tinnitus. Antwerp Belgium.
3. A Randomized Controlled Pilot Study to Examine the Efficacy of Greater Occipital Nerve (C2) Stimulation in the Treatment of Fibromyalgia. Antwerp Belgium.
4. A Single Center Feasibility Study to Assess the Performance of the Spinal Modulation Neurostimulator System for the Management of Chronic Intractable Pain and Movement Disorders. Antwerp Belgium.
5. A blinded randomized pilot study assessing vagus nerve stimulation (VNS) paired with tones for tinnitus vs. VNS with unpaired tones. Dallas, USA.

Dissemination

1. Round table: The path towards more effective treatments and a cure. Tinnitus and Hyperacusis Masterclass 2021, January 27, UCL, London.
2. Round table: Collaboration between industry and researcher to find a cure for tinnitus. 10th International Tinnitus Research Initiative Conference, March 13–16, 2018, Regensburg, Germany.

Awards

1. 'I'm in pain and nobody believes me': Why do doctors take women's pain less seriously? Irish Examiner, 2023.
2. New research aims to help the brain 'unlearn' tinnitus. Radio show News talk. 2023
3. Getting to the bottom of the phantom sounds of tinnitus Irish Times, 2023
4. TRI event covered by Irish daily news, Near FM, Medical Independent, Irish Times, 2023

5. Best Neuroscientist in Ireland based Brainresearch.com 2022, 2023
6. Best poster award: Byczynski, G & **Vanneste, S.** (2023). Investigating the Effect of Peripheral Nerve Stimulation on Motor Learning. School of Psychology Research Symposium, March 7, Dublin, Ireland.
7. Selected as Featured Article: “Conlon, B., Langguth, B., Hamilton, C., Hughes, S., Meade, E., O’Connor, C., Schecklmann, M., Hall, D. A., **Vanneste, S.**, Leong, S. L., Subramanian, T., D’Arcy, S. & Lim, H. H. (2020). Bimodal neuromodulation combining sound and tongue stimulation reduces tinnitus symptoms in a large randomized clinical study. *Science Translational Medicine*, 12, 1-12.” In Science, Science Translation Medicine, JAMA, New Scientist, IEENewspaper and New Item in the USA, Ireland, U.K., France, Belgium, Netherlands
8. Postdoctoral publication of the year for 2020 for the paper Mohan, A., Bhamoo, N., Riquelme, J. S., Long, S., Norena, A. & **Vanneste, S.** (2020). Investigating functional changes in the brain to intermittently induced auditory illusions and its relevance to chronic tinnitus. *Human Brain Mapping*.
9. APS select award for paper Borland, M., Vrana, W. A., Moreno, N. A., Fogarty, E., Buell, E. p., **Vanneste, S.**, Hays, S. A., Kilgard, M. & Engineer, C. T. (2019). Pairing vagus nerve stimulation with tones drives plasticity across the auditory pathway. *Journal of Neurophysiology*.
10. Highly cited Research in Neuromodulation, 2018
11. Selected as Featured Article: “**Vanneste, S.**, Song, J. J. & De Ridder, D. (2018). Thalamocortical dysrhythmia detected by machine learning. *Nature communications*, 9, 1-13. In Wikipedia pages, News outlets include IEEE.
12. Selected as Featured Article: “Vanneste, S., Song, J. J. & De Ridder, D. (2013). Tinnitus and musical hallucinosis: the same but more. *Neuroimage*, 82, 373-383.” In New Scientist
13. Silver Frontiers Spotlight Award: Special Issue: Towards an Understanding of Tinnitus Heterogeneity. 2018
14. Best poster award “Anusha, M., De Ridder, D. & **Vanneste, S.** (2018). Distress-dependent temporal binding of regions encoding disorder-specific and disorder-general behavioral manifestations of phantom percepts. 10th International Tinnitus Research Initiative Conference, 13–16th March 2018, Regensburg, Germany.”
15. Best poster award “Tchen, S., & **Vanneste, S.** (2014). A Controlled Study Examining the Effects of Tinnitus on Attention Task Reaction Time. 15th Annual Texas Audiology Association Conference. The Woodlands Waterway Marriott. October 18-20, 2014.
16. Best poster award “electronic circuits and systems” at the ICT.OPEN 2011: Hiseni S., Sawigun, C., **Vanneste, S.**, van der Velden, E4, De Ridder, D. & Serdijn, W. A. (2011). A Nano Power CMOS Tinnitus Detector for a Fully Implantable Closed-Loop Neurodevice.
17. Selected article featured: “De Ridder, D., Kilgard, M., Engineer, N. & **Vanneste, S.** (2015). Placebo-controlled Vagal Nerve Stimulation Paired with Tones in a Patient with Refractory Tinnitus: A Case Report. *Otology & Neurotology*, 36, 575-580.” In Dallas Morning, CBNBS, FOX.

18. Selected article featured: “De Ridder, D., Manning, P. Glue, P., Cape, G., Langguth, B. & **Vanneste, S.** (2016). Anterior Cingulate Implant for Alcohol Dependence: Case Report. *Neurosurgery*, 78, 883-893.”
In Belgian and Dutch newspaper and Local News stations.
19. Selected as Featured Article in European Journal of Neuroscience: “**Vanneste, S.**, Van de Heyning, P., & De Ridder, D. (2011). The neural network of phantom sound changes in time: A comparison between recent onset and chronic tinnitus patients.” With Commentary on Featured Article by Rodolfo Llinas (2011) Tinnitus: where is the source. In European Journal of Neuroscience.
20. Selected as article in World Neurosurgery for prospective: “De Ridder, D., **Vanneste, S.**, van der Loo, E., Plazier, M., Menovsky, T., Van de Heyning P., Kovacs, S., Sunaert, S. (2012). Dorsolateral prefrontal cortex TMS and electrode implant for intractable tinnitus: case report. *World Neurosurgery*, 778-784.”
with commentary on Article by “Aziz, T. Z. (2012) Tinnitus and the neurosurgeon. *World Neurosurgery*, 77, 650.” and “Taira, T. (2012). Tinnitus: From traditional concept to challenges to loosen the Gordian knot. *World Neurosurgery*, 77, 651-652”.
21. Highly cited Research in World Neurosurgery, 2016
22. FWO (The Research Foundation - Flanders) travel grant 2012: Visiting scholar at the Neuromodulation center at Harvard University.
23. Selected as Featured Article “**Vanneste, S.**, Van Hiel, A., Parisi, P., & Depoorter, B. (2006). From 'Tragedy' to 'Disaster': Welfare Effects of Commons and Anticommons Dilemmas. *International Review of Law & Economics*, 26, 104-122. in the New Yorker.

Editorial Board/Work

Journals

- Frontiers in Psychiatry 2013- 2020
- Plos One 2013- ...
- Scientific Reports 2019- 2021
- BioMed Research International (Special Issue: Pathology of Tinnitus and Hyperacusis-Clinical Implications)
- Frontiers (Special Issue: Frontiers Research Topic: Towards an Understanding of Tinnitus Heterogeneity)

Books

- Book Progress in Brain Research: Tinnitus - An Interdisciplinary Approach Towards Individualized Treatment: *From Heterogeneity to Personalized Medicine* (Vol. 1), Elsevier.
- Book Progress in Brain Research: Tinnitus - An Interdisciplinary Approach Towards Individualized Treatment: *Towards understanding the complexity of tinnitus* (Vol. 2), Elsevier.

- Book Progress in Brain Research: Tinnitus - An Interdisciplinary Approach Towards Individualized Treatment: *Results from the European Graduate School for Interdisciplinary Tinnitus Research* (Vol. 3), Elsevier.
- Textbook of Tinnitus, Springer

Grant Review Board

- FWO review board
- Centre Hospitalier Universitaire de Nice applications
- Department of Defense - CDMRP

Reviewer for Grant proposals

Action on Hearing Loss (RNID; www.actiononhearingloss.org.uk)

Alzheimer Association (AA; <https://www.alz.org/>)

Auckland Medical Research Foundation (<http://www.medicalresearch.org.nz/>)

British Tinnitus Association (BTA; <https://www.tinnitus.org.uk/>)

Department of Defense: Congressional Directed Medical Research Program: (<http://cdmrp.army.mil/>)

Deutsche Forschungsgemeinschaft (<http://www.dfg.de/>)

European Research Council (<http://erc.europa.eu>)

Foundation Agir pour L'audition: Research and prevention (www.agirpourlaudition.org)

Fonds voor wetenschappelijk onderzoek

National Institute of Health (NIH <http://www.nih.gov/>)

Nederlandse Organisatie voor Wetenschappelijk Onderzoek (<http://www.nwo.nl/>)

Neurological Foundation of New Zealand (<http://www.neurological.org.nz>)

Swiss National Science Foundation (FNSNF; <http://www.snf.ch>)

The Fund for Scientific Research-FNRS (F.R.S.-FNRS; <http://www.fnr.be>)

The Netherlands Organisation for Health Research and Development (<http://www.zonmw.nl/>)

Welcome Trust (<https://wellcome.ac.uk/>)

Reviewer for Scientific Journals

- | | |
|---|---|
| 1. Advances in Research | 38. International Journal of Emergency Mental Health |
| 2. Austin Journal of Clinical Neurology | 39. International Journal of Environmental Research and Public Health |
| 3. Behavioral Brain Research | 40. Internet Interventions |
| 4. BioMed Research | 41. JAMA |
| 5. BMC Neurology | 42. JAMA Otolaryngology-Head & Neck Surgery |
| 6. BMC Neuroscience | 43. Journal of Molecular Pathophysiology |
| 7. BMC Health Services Research | |

8. BMJ Open
9. Brain
10. Brain Plasticity
11. Brain Research
12. Brain Stimulation
13. Brain Structure and Function
14. Brain Topography
15. British Journal of Medicine and Medical Research
16. Case Reports in Neurological Medicine
17. Computers in Biology and Medicine
18. Chiropractic & Manual Therapies
19. Clinical Neurology and Neurosurgery
20. Comprehensive Psychiatry
21. Cerebral Cortex
22. Developmental Neuropsychology
23. Ear and Hearing
24. European Archives of Oto-Rhino-Laryngology and Head & Neck
25. European Psychiatry
26. European Journal of Neuroscience
27. Expert Review of Medical Device
28. Evolution & Human Behavior
29. Frontiers in Cellular Neuroscience
30. Frontiers in Psychiatry
31. Frontiers in Neuroscience
32. Frontiers in System Neuroscience
33. Hearing Research
34. IEEE Transactions on Neural Systems & Rehabilitation Engineering
35. International Journal of Neurophysiology
36. Human Brain Mapping
37. International Journal of Audiology
44. Journal of Neural Engineering
45. Journal of Neurology
46. Journal of Neuroscience Methods
47. Journal of Psychosomatic Research
48. Journal of Speech, Language and Hearing Research
49. Medical Science Monitor
50. Neural Plasticity
51. Neuroimage
52. Neuropsychiatric Disease and Treatment
53. Neurorehabilitation & Neural Repair
54. Neuromodulation
55. Neuroscience & Biobehavioral Reviews
56. Neurosurgery
57. Pain
58. Patient Preference and Adherence
59. Personality and Individual Difference
60. Plos Medicine
61. Plos One
62. Progress in Neuro-Psychopharmacology & Biological Psychiatry
63. Psychomusicology: Music, Mind, and Brain
64. Restorative neurology and neuroscience
65. Scientific reports
66. Social Psychiatry and Psychiatric Epidemiology
67. The Journal Clinical Neuroradiology
68. The European Journal of Pharmacology
69. The Laryngoscope
70. Trends in Cognitive Sciences
71. Trials
72. World Journal of Biological Psychiatry

Research Support

Current

- Title: Identification and validation of a biomarker for tinnitus: an objective data-driven personalized approach to diagnosis of chronic tinnitus – The TIDE project. Rainwater Charitable Foundation (PI). \$1,806,701.
- Title: The longitudinal relationship between tinnitus and cognitive decline. AA (Supervisor). €25,000.
- Title: Digital Storytelling of dementia for healthcare students. AA (Supervisor): €25,000.
- Title: Science Foundation Ireland Fellowship Programme. 1/10/20223 – 30/09/2025 (PI) €120,000
- Title: Investigating Peripheral Nerve Stimulation on Motor Task Learning. Supervisor – Irish Research Council Postgraduate fellowship. 1/10/20223 – 30/09/2025 (PI) €65,910
- Title: Multi-site confirmatory efficacy treatment trial of combat-related PTSD Supporting Agency: Department of the Army. Performance Period: 9/1/2017 – 8/31/2024 (co-PI): \$6,964,372
- Title: High-Definition Transcranial Direct Current Stimulation on Episode Memory in Individuals with Amnesic Mild Cognitive Impairment and History of TBI- DOD InCASA Period: 1/1/2021 – 12/31/2024 (co-PI) \$1,000,000.
- Title: Dementia Trials Ireland (DTI). Health Research Board CTN-2021-003. Period: 9/1/2021 – 8/31/2026 (co-PI) €1,000,000.
- Title: Diminishing accelerated long-term forgetting in mild cognitive impairment -Alzheimer's Association - Alzheimer's Association Research Grant (AARG). Period: 1/1/2022 – 12/31/2024 (PI) €250,000.
- Title Disrupting the Migraine continuum of care for resource constrained settings. Acronym: TARA Horizon- HORIZON-HLTH-2021-TOOL-06-01 (co-PI) €8,869,892.

Pending

- Title: Non-invasively re-training the tinnitus brain using electrical-sound stimulation. RNID (PI) €300,000.
- Title: Strategies to optimize deep learning for personalized treatment. SFI Industry RDI Fellowship Programme (PI). €1000,000.

Previous

- Title: Causally investigating the dimensional variability in tinnitus as an imbalance between top-down and bottom-up neural processes. Supervisor – Irish Research Council Postdoctoral fellowship. (PI) €91,910.
- Title: Predicting the success of Lenire™ using machine and deep learning models - Enterprise Ireland (PI) €146,093
- Title: Predictors of therapy success using trigeminal and auditory neuromodulation for the treatment of tinnitus Supervisor – Irish Research Council Postdoctoral fellowship. (PI) €91,910.

- Title: Shape shifting phantom sounds: The genetic and neurobiological factors involved the chronification. Supporting Agency: H2020- Proposal Preparation Support. €14,434.
- Title: Direct Current Stimulation for Pain Treatment of Gulf War Illness. Supporting Agency: DoD/CDMRP Performance Period: 9/1/2017 – 8/31/2020 (PI) \$956,198.
- Title: Targeted Neuroplasticity Training to Accelerate Complex Skill Learning DARPA. Performance Period: 01/01/2017 – 12/31/2020 (Co-PI/Workgroup leader) \$ 5,899,042.
- Title: UTSW ENT developmental research grant 2013 – 2019 (PI) yearly \$35,000.
- Texas Biomedical Device Center 2014-2015: A Blinded Randomized Pilot Study Assessing Vagus Nerve Stimulation (VNS) Paired with Tones for Tinnitus vs. VNS with Unpaired Tones - MicroTransponder's Serenity System (PI). \$150,000.
- High-definition transcranial direct current stimulation modulates the cingulate cortex Supporting Agency: UT Dallas Faculty Research Initiative. Performance Period: 10/30/2014 – 8/31/2015. (PI) \$5,000
- Subtyping of tinnitus by neuroimaging and catechol-O-methyltransferase genotyping Supporting Agency: UT Dallas Faculty Research Initiative. Performance Period: 10/30/2015 – 8/31/2016. (PI) \$5,000
- Neural changes in acute tinnitus induced by the Zwicker tone illusion. Supporting Agency: UT Dallas Faculty Research Initiative. Performance Period: 10/30/2016 – 8/31/2017. (PI) \$5,000
- Title: Callier Care Fund for Tinnitus Patients Supporting Agency: The Dallas Foundation: Mary M. Jalonick Advised Fund Period: yearly (PI) \$120,000
- Title: Non-invasive Brain Stimulation to Improve Memory Retrieval in Patients with Mild Cognitive Impairment. Supporting Agency: Darrell K. Royal Research Fund for Alzheimer's disease Performance period: 9/1/2015 – 8/31/2018 (PI) \$169,000
- Title: Postdoctoral Fellowship. Supporting Agency: Private donation. Performance period: 9/1/2016 – 8/31/2018. (PI) \$120,000
- Stavros Niarchos Foundation 2010-2013: Prevention of tinnitus persistence after acoustic trauma in adolescents and young adults: a pathophysiologically based approach (co-PI). €120,000
- Microtransponder. 2010-2011: A Proof-of-Concept Pilot Study Assessing Vagus Nerve Stimulation (VNS) Paired with Tones for Tinnitus (co-PI). €120,000
- Neurobiologische differentiatie van de paniekstoornis (jeugdtraumata?) en comorbide aandoeningen. Legaat (co-PI). €50,000
- Post-doctoral FWO Fellowship (The Research Foundation - Flanders) 2011-2014: to perform full-time research as a postdoctoral level for 3 years, including travel costs and operating funds (Receiver). €300,000.

- Clinical trial, Spinal Modulation, 2012-2013: A Single Center Feasibility Study to Assess the Performance of the Spinal Modulation Neurostimulator System for the Management of Chronic Intractable Pain and Movement Disorders; 06-SMI-2012 (co-PI). €200,000
- TOP BOF financiering UA 2011-2015: How is an auditory conscious percept generated? (PI) €4000,000