

C. V.

Personal

Name: Vanneste

First name: Sven

Current Position(s)

- Associate Professor at the School of Behavioral and Brain Sciences, University of Texas at Dallas, 2013-present
- Guest Professor of Neuroscience at the Research Group Translational Neuroscience, Department of ENT, Faculty of Medicine and Health Science, University of Antwerp, USA, 2013- present
- Honorary Research Associate Professor in the Department of Surgical Sciences, University of Otago, New Zealand, 2015 - present
- Director Lab of Clinical and Integrative neuroscience, University of Texas at Dallas, 2013 - present
- Director of Neuromodulation, Center for Brain Health, University of Texas at Dallas, 2016 - present
- Clinical Director, Texas Biomedical Device Center, University of Texas at Dallas, 2016 - present
- Member of the management committee COST-action BM1306: Better Understanding the Heterogeneity of Tinnitus to Improve and Develop New Treatments. 2014 - present
- Workgroup leader of COST-action BM1306: Workgroup Neuroimaging. 2014 - present

Previous work experience

- 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
- Research 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

Education

- PhD in Medical Science: Neuroscience (Antwerp University, 2011)
- Master in Science: Theoretical & Experimental Psychology (Ghent University, 2004)

- Bachelor in Science: Psychology (Ghent University, 2001)
- Master in Arts: Criminology (Ghent University, 2000)
- Bachelor in Arts: Criminology (Ghent University, 1998)

Others

- Co-founder of the Research group *The Moral Brain*
- Organizer of International Conferences:
 1. International conference on tinnitus (TRI 2012): the art and science of neuromodulation, 13-16 June 2012, Bruges (300 participants)
 2. 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 2007, April, 14th 2007, July 7th, 2007) Ghent
- Member of Research Communities:
 1. The Moral Brain group, Ghent University (<http://www.themoralbrain.be>)
 2. Neurostimulation workgroup, Tinnitus Research Initiative (http://www.tinnitusresearch.org/en/workgroups/neurostimulation_workgroup_en.php)
 3. Pharmagroup, Tinnitus Research Initiative (http://www.tinnitusresearch.org/en/workgroups/neurostimulation_workgroup_en.php)
 4. Brain innovations, a consortium between the University Hospital Antwerp, Technical University Delft and Erasmus University Rotterdam (<http://www.braininnovations.nl/>)

Teaching Experience

- 2016 - present: 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 the 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

- Callier Research Committee (2013 - present)

- PhD appointment Committee (2013 - present)
- Member of the Education committee on Biomedical Science, Faculty of Biomedical Science, University of Antwerp (2013- present)
- Member of the Council of the Faculty of Medicine and Health sciences, University of Antwerp (2012- present)

Promotor/Supervisor

1. Kathleen Joos. The involvement of the emotional brain network in non-pulsatile tinnitus. Received 2014.
2. Annick Gilles. Noise-induced tinnitus in adolescents: prevalence, detection and prevention. Received 2014.
3. Anusha Mohan. Metastability in chronic neurological diseases. Expected 2017
4. Hye Bin Yoo. Structural and functional changes in aging. Expected 2017
5. Jeffery Hullfish. The role of paradoxical rewarding in chronic diseases. Expected 2018

Doctoral Committee

1. Bambi Dela Rosa. Electrophysiological dynamics during visual threat processing in combat-related PTSD. Defense 2016.
2. Michael Borland. Understanding and optimizing VNS directed plasticity
3. Julie Fratontini: How does high definition-transcranial direct current stimulation enhance statistical learning in auditory and visual modalities?
4. Elizabeth Buell: Optimizing Parameters to Enhance Targeted Plasticity in the Auditory Cortex.

Publications

International peer-reviewed articles

1. De Ridder, D. & **Vanneste, S.** (in press). Occipital nerve field tDCS normalizes imbalance between pain detecting and pain inhibitory pathways in fibromyalgia. *Neurotherapeutics*.
2. Song, J.J., Kim, K., Mertens, G., Van de Hyening, P., De Ridder, D., **Vanneste, S.**, Park, K.J., Choi, C. & Choi, J.W. (in press). Cortical activity modulation by dynamic peripheral reafferentation: cochlear implant-induced cortical activity changes in single-sided deafness patients with tinnitus. *Frontiers in Human Neuroscience*.
3. To, W. T., Ost, J., Hart, J. Jr., De Ridder, D. & **Vanneste, S.** (in press). Changing brain networks through non-invasive neuromodulation. *Journal of Neural Transmission*.
4. **Vanneste, S.**, Joos, K., Ost, J. & De Ridder, D. (in press). Influencing connectivity and cross-frequency coupling by real-time source localized neurofeedback of the posterior cingulate cortex reduces tinnitus related distress. *Neurobiology of Stress*.
5. Mohan, A., De Ridder, D. & **Vanneste, S.** (2017). Robustness and dynamicity of functional networks in phantom percept. *Neuroimage*, 146, 171-187.
6. Alsalman, O., Ost, J., Vanspauwen, R., Blaivie, C., De Ridder, D. & **Vanneste, S.** (2016). The neural correlates of chronic symptoms of vertigo proneness in humans. *Plos One*, 4, e0152309.
7. Alsalman, O., Tucker, D., **Vanneste, S.** (2016). Acute Autonomic, Immune and Endocrine Stress-Related Responses in Tinnitus: An exploratory study. *Frontiers in Neuroscience*, 10, 388.
8. Bin Yoo, H., De Ridder, D. & **Vanneste S.** (2016). White matter changes in tinnitus: is it all age and hearing loss. *Brain connectivity*, 1, 84-93.
9. Clark, J. L., Pustejovsky, C., **Vanneste, S.** (2016). Objective and perceptual comparisons of two bluetooth hearing aid assistive devices. *Disability and Rehabilitation: Assistive Technology*, 4, 1-4.
10. De Ridder, D. & **Vanneste, S.** (2016). Burst and tonic spinal cord stimulation share a common anti-nociceptive mechanism. *Neuromodulation*, 1, 47-59.
11. De Ridder, D. & **Vanneste, S.** (2016). Does Tonic Spinal Cord Stimulation Really Influence the Medial Pain System? *Neuromodulation*, 2, 227-228.

12. De Ridder, D. & **Vanneste, S.** (2016). Response: A Systematic Evaluation of Burst Spinal Cord Stimulation for Chronic Back and Limb Pain. *Neuromodulation*, 7, 785-786.
13. De Ridder, D. & **Vanneste, S.** (2016). Vision on the future of medical devices in spinal cord stimulation: what medical devices are needed? *Expert Review in Medical Devices*, 3, 233-242.
14. De Ridder, D., Congedo, M., Song, J. J., & **Vanneste, S.** (2016). Whole scalp EEG power change is not a prerequisite for further EEG processing. *Hearing Research*, 399, 215 – 216.
15. De Ridder, D., Manning, P., Gleu, P., Cape, G., Langguth, B. & **Vanneste, S.** (2016). Anterior cingulate implant for alcohol addiction: case report. *Neurosurgery*, 6, 883-893.
16. De Ridder, D., Manning, P., & **Vanneste, S.** (2016). Allostasis in health and food addiction. *Scientific report*, 6, 37126
17. De Ridder, D., Manning, P., Lioeng, L. L., Ross, S., Sutherland, W., Horwath, C., & **Vanneste, S.** (2016). Activity of the dorsal anterior cingulate cortex differentiates between addictive and non-addictive forms of obesity. *Scientific report*, 6, 34122.
18. De Ridder, D., Sime, M. J., Taylor, P., Johnson, R., Menovsky, T. & **Vanneste, S.** (2016). Microvascular decompression of the optic nerve for paroxysmal phosphenes and visual field deficit. *World journal of Neurosurgery*, 85, 365-367.
19. De Ridder, D., **Vanneste, S.**, Gillet, G., Manning, P., Glue, P. & Langguth, B. (2016). Psychosurgery reduces uncertainty and increases free will. *Neuromodulation*, 3, 170-179.
20. De Ridder, Leong, S.L., Manning, P., **Vanneste, S.** & Glue, P. (2016). Case Report: Anterior Cingulate Implant for Obsessive Compulsive Disorder. *World Neurosurgery*, 16, 31034-31038.
21. Kim, S.H., Jang, J. H., Lee S. Y., Koo J. W., **Vanneste S.**, De Ridder, D., Song J. J., (2016). Neural substrates predicting short-term improvement of tinnitus loudness and distress after modified tinnitus retraining therapy. *Scientific Reports*, 6, e29140.
22. Lefaucheur, J.-P., Antal, A., Ayache, S. S., Benninger, D. H., Brunelin, J., Cogiamanian, F., Cotelli, M., De Ridder, D., Ferrucci, R., Langguth, B., Marangolo, P., Mylius, V., Nitsche, M., Padberg, F., Palm, U., Poulet, E., Priori, A., Rossi, S., Schecklmann, M., **Vanneste, S.**, Ziemann, U., Garcia-Larrea, L., Paulus, W. (in press). Evidence-based guidelines on the therapeutic use of transcranial direct current stimulation (tDCS). *Clinical Neurophysiology*, 128, 56-92.
23. Mohan, A., De Ridder, D. & **Vanneste, S.** (2016). Emerging hubs in phantom perception connectomics. *Neuroimage: Clinical*, 11, 181-194.
24. Mohan, A., De Ridder, D. & **Vanneste, S.** (2016). Graph theoretical analysis of brain connectivity in phantom sound perception. *Scientific Reports*, 6, 19683.
25. Pattyn T., Van Den Eede, F., **Vanneste, S.**, Cassiers, L., Van De Heyning, P., Sabbe, B. C. G. (2016). Tinnitus and anxiety disorders: a review. *Hearing research*, 333, 255-265.
26. Plazier, M., Van Camp, T., Menovsky, T., Ost, J., De Ridder, D. & **Vanneste** (2016). A simple technique for surgical placement of occipital nerve stimulators without anchoring the lead. *Journal of Neurological Surgery A: Central Europe Neurosurgery*, 5, 441-446.
27. To, W. T., Hart, J. jr., De Ridder, D. & **Vanneste, S.** (2016). The influence of stimulation parameters on the efficacy of conventional and high-definition transcranial direct current stimulation in humans. *Expert in Medical Devices*, 2, 1-14.
28. Van Dijk, P & **Vanneste, S.** (2016). Neuroimaging WG3. Neuroimaging as a window on the heterogeneity of tinnitus. *ENT & Audiology News*, 1, 73-74.
29. **Vanneste, S.** & De Ridder, D. (2016). Fundamental pathophysiological differences in phantom sound depend on the hearing loss. *Neuroimage*, 129, 80-94.
30. **Vanneste, S.**, Faber, M, Langguth, B. & De Ridder, D. (2016). Is cognitive impairment in tinnitus associated with neurophysiological changes in the hippocampus? *Brain Research*, 1642, 170-179.
31. Yoo, H. B., De Ridder, D. & **Vanneste S.** (2016). The Importance of Aging in Cortical Thickness Changes within Tinnitus Patients. *Brain Topography*, 29, 885-896.
32. Beebe Palumbo, D., Joos, K., De Ridder, D. & **Vanneste, S.** (2015). The management and outcomes of pharmacological treatments for tinnitus. *Current Neuropharmacology*, 13, 692-700.

33. De Ridder, D. & **Vanneste, S.** (2015). Multitarget surgical neuromodulation: Combined C2 and auditory cortex implantation for tinnitus. *Neuroscience letters*, 591, 202-206.
34. De Ridder, D. & **Vanneste, S.**, Langguth, B. & Llinas R. (2015). Thalamocortical dysrhythmia: a theoretical update in tinnitus? *Frontiers in Neuroscience*, 6, 124-130.
35. De Ridder, D., Congedo, M. & **Vanneste, S.** (2015). The neural correlates of subjective and objective loudness perception in auditory phantom perception. *Brain & Behavior*, 5, e00331.
36. De Ridder, D., Joos, K. & **Vanneste, S.** (2015). Anterior cingulate implants for tinnitus: EEG and TMS as predictive tests? *Journal of Neurosurgery*, 28, 1-9.
37. 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*, 4, 575-580.
38. De Ridder, D., Lenders, M. W. P.M. , De Vos, C. C., Dijkstra-Scholten, C., Wolters, R.Vancamp, T., Van Looy, P., Van Havenbergh, T. & **Vanneste, S.** (2015). A two center comparative study on tonic versus burst spinal cord stimulation: amount of responders and amount of pain suppression. *The Clinical Journal of Pain*, 5, 433-437.
39. De Ridder, D., Van Camp, T., Lenders, M. W., De Vos, C. C. & **Vanneste, S.** (2015). Is preoperative pain duration important in spinal cord stimulation: a comparison between tonic and burst stimulation. *Neuromodulation*, 1, 13-17.
40. De Ridder, D., **Vanneste, S.**, Elogyhen, A. B., Langguth, B. & de Nora, M. (2015). All treatments in tinnitus are Experimental, Controversial and Futuristic. *Journal of the American Academy of Audiology*, 6, 595-597.
41. De Ridder, D., **Vanneste, S.**, Plazier, M. & Vancamp, T. (2015). Mimicking the brain: Evaluation of St Jude Medical's Prodigy Chronic Pain System with Burst Technology. *Expert review of Medical Devices*, 12, 143-150.
42. Elgoyhen, A.B., De Ridder, D., Langguth, B. & **Vanneste, S.** (2015). Phantom Sound Perception: the Ringing in the Brain. *Nature Reviews Neuroscience*, 10, 632-642.
43. Focquaert, F. & Vanneste, S. (2015). Autism spectrum traits in normal individuals: a VBM analysis. *Frontiers in Humans Neuroscience*, 9, 264-270.
44. Joos, K, De Ridder, D. & **Vanneste, S.** (2015). The deferential effect of low versus high random noise stimulation. *Experimental brain research*, 5, 1433-1440.
45. Moller, A.R., Salvi, R., De Ridder, D., Kleinjung, T. & **Vanneste, S.** (2015). Pathology of Tinnitus and Hyperacusis-Clinical Implications. *Biomed Research International*, 2015, 608437.
46. Pickut, B., Vanneste, S., Hirsch, M. A., Mariën, P., Crosiers, D., Van Hecke, W., Kerckhofs, E., Parizel, P. & Cras, P. (2015). Mindfulness Training Among Individuals with Parkinson's Disease: Neurobehavioral Effects. *Parkinson's Disease*, 2015, 816404.
47. Plazier, M., Ost, J., Snijders, E., Gilbers, M., Vancamp, T. Stassijns, G., De Ridder, D. & **Vanneste, S.** (2015). Laser evoked potentials in fibromyalgia: the influence of greater occipital nerve stimulation on cerebral pain processing. *Neuromodulation*, 5, 376-383.
48. Plazier, M., Ost, J., Stassijns, G., De Ridder, D. & **Vanneste, S.** (2015). C2 nerve field stimulation for the treatment of Fibromyalgia: A prospective, double-blind, randomized, controlled cross-over study. *Brain Stimulation*, 4, 751-757.
49. Plazier, M., Ost, J., Stassijns, G., De Ridder, D. & **Vanneste, S.** (2015). Pain characteristics in fibromyalgia: understanding the multiple dimensions of pain. *Clinical Rheumatology*, 4, 775-783.
50. Plazier, M., Tchen, S., Ost, J., De Ridder, D. & **Vanneste, S.** (2015). Is transcranial direct current stimulation an effective predictor for invasive occipital nerve stimulation treatment success in fibromyalgia patients? A placebo-controlled pilot study. *Neuromodulation*, 7, 623-629.
51. Song, J. J., **Vanneste, S.** & De Ridder, D. (2015). Dysfunctional noise canceling of the rostral anterior cingulate cortex in tinnitus. *Plos One*, 10, e0123538.
52. Song, J. J., **Vanneste, S.**, Hyun Park, J., Van de Heyning, P. & De Ridder, D. (2015). How does the Cochlear Implant Users Process Speech and Non-speech Sounds? An ALE meta-analysis on the Neural Correlates of Lexical- versus Non-lexical Auditory. *Human Brain mapping*, 5, 1982-1994.

53. Van Havenbergh, T., Vancamp, T., Van Looy, P., **Vanneste, S.** & De Ridder, D. (2015). Spinal cord stimulation for the treatment of chronic back pain patients: 500 Hz vs 1000 Hz burst stimulation. *Neuromodulation*, *1*, 9-12.
54. **Vanneste, S.** & De Ridder, D. (2015). Distress state dependent seed based functional connectivity on resting state EEG in tinnitus. *Brain Connectivity*, *6*, 371-383.
55. **Vanneste, S.**, Van de Heyning, P. & De Ridder, D. (2015). Is VBM useful in functional pathologies such as tinnitus? Structural VBM changes do not reflect electrophysiological EEG changes. *Plos One*, *10*, e0115122.
56. Claes, L., Stamberger, H., Van de Heyning, P., De Ridder, D. & **Vanneste, S.** (2014). Auditory cortex tACS and tRNS for tinnitus: single versus multiple sessions. *Neural Plasticity*, e 436713
57. Dammekens, E. *, **Vanneste, S. ***, Ost, J. & De Ridder, D. (2014). Neural correlates of high frequency repetitive transcranial magnetic stimulation improvement in post-stroke non-fluent aphasia. A case study. *Neurocase*, *20*, 1-9.
58. De Ridder, D. & **Vanneste, S.** (2014). Auditory cortex stimulation might be efficacious in a subgroup of tinnitus patients. *Brain Stimulation*, *7*, 917-918.
59. De Ridder, D. & **Vanneste, S.** (2014). Targeting the parahippocampal area by auditory cortex stimulation in tinnitus. *Brain Stimulation*, *7*, 709-717.
60. De Ridder, D., Joos, K. & **Vanneste, S.** (2014). The enigma of the tinnitus-free dream-state in a Bayesian world. *Neural Plasticity*, 612147, 1-5.
61. De Ridder, D., **Vanneste, S.** & Focquaert, F. (2014). Outstanding questions concerning the regulation of cognitive enhancement devices. *Journal of Law and the Biosciences*, *1*, 316-321.
62. De Ridder, D., **Vanneste, S.***, Engineer, N. & Kilgard, M. (2014). Safety and Efficacy of Vagus Nerve Stimulation Paired with Tones for the Treatment of Tinnitus: A case series. *Neuromodulation*, *17*, 170-179.
63. De Ridder, D., **Vanneste, S.**, & Freeman, W. (2014). The Bayesian brain: phantom percepts resolve sensory uncertainty. *Neuroscience & Biobehavioral Reviews*, *44*, 4-15.
64. De Ridder, D., **Vanneste, S.**, Weisz, N., Schlee, W., Londero, A., Elgoyhen, A.B. & Langguth, B. (2014). An integrative model of auditory phantom perception: Tinnitus as a unified percept of interacting separable subnetworks. *Neuroscience and Biobehavioral reviews*, *44*, 16-32.
65. De Vos, C., Bom, M., **Vanneste, S.** & De Ridder, D. (2014). Burst Spinal Cord Stimulation evaluated in patients with failed back surgery syndrome and painful diabetic neuropathy. *Neuromodulation*, *17*, 152-159.
66. Elgoyhen, A.B., Langguth, B., Novak, W., Schecklmann, M., De Ridder, D. & **Vanneste, S.** (2014). Identifying Tinnitus-Related Targets Based on a Side-Effect Network Analysis. *CPT: Pharmacometrics & Systems Pharmacology*, *3*, e1.
67. Joos, K., De Ridder, D., Boey, R. & **Vanneste S.** (2014). Resting state functional connectivity in adults with developmental stuttering. *Frontiers in Human Neuroscience*, *8*, 783
68. Joos, K., De Ridder, D., Van De Heyning, P. & **Vanneste S.** (2014). Polarity specific suppression effects of transcranial direct current stimulation for tinnitus. *Neural Plasticity*, 930860, 1-8.
69. Joos, K., Gilles, A., Van de Heyning, P., De Ridder, D. & **Vanneste, S.** (2014). From sensation to percept: the neural signature of auditory event-related potentials. *Neuroscience and Biobehavioral Reviews*, *42*, 148-156.
70. Plazier, M., De Kever, I., **Vanneste, S.**, Menovsky, T., Thimineur, M., Stassijns, G., De Ridder, D. (2014). Occipital nerve stimulation in Fibromyalgia: A double-blind placebo controlled pilot study. *Neuromodulation*, *17*, 256-263.
71. Schecklmann, M., Landgrebe, M., Langguth, B. & Tinnitus Research Initiative database study group: Vielsmeier, V., Kleinjung, T., Lehner, A., Kreuzer, P., 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., Koller M. (2014). Phenotypic characteristics of hyperacusis in tinnitus. *Plos One*, e86944, 1-7.
72. Song, J. J., Staelens, S., Deleye, S., Ceyssens, S., Gilles, A., Mertens, G., de Bodt, M., **Vanneste, S.**, De Ridder, D. & Van de Heyning, P. (2014). Neural correlates of conversion deafness in a cochlear implant patient: a molecular imaging study using H₂¹⁵O-PET. *Otology & Neurotology*, *220*, 585.

73. Song, J. J., De Ridder, Weisz, N, Schlee, W., D., Van de Heyning, P. & **Vanneste, S.** (2014). Hyperacusis-associated pathological resting-state brain oscillations in the tinnitus brain: a hyperresponsiveness network with paradoxically inactive auditory cortex. *Brain Structure and Function*, *219*, 1113-1128.
74. Song, J. J., **Vanneste, S.**, Van de Heyning, P. & De Ridder, D. (2014). Onset-related differences in neural substrates of tinnitus-related distress: the anterior cingulate cortex in late-onset tinnitus, and the orbitofrontal cortex in early-onset tinnitus. *Brain Structure and Function*, *4*, 1113-1151.
75. **Vanneste** (2014). Tuning the tinnitus brain? *The hearing journal*, *67*, 6.
76. **Vanneste, S.**, Congedo, M. & De Ridder, D. (2014). Pinpointing a highly specific pathological functional connection that turns phantom sound into distress. *Cerebral cortex*, *9*, 2268-2282.
77. **Vanneste, S.**, Joos, K. Langguth, B., To, W. T., & De Ridder, D. (2014). Resting-state neural activity and functional connectivity in tinnitus patients using a maladaptive coping strategy. *Plos One*, *e88253*, 1-714
78. Vanneste, S., Ost, J., Langguth, B. & De Ridder, D. (2014). rTMS by double-cone coil prefrontal stimulation for medication resistant chronic depression: a case report. *Neurocase*, *20*, 61-68.
79. Zeman, F., Koller, M., Langguth, B., Landgrebe, M. & Tinnitus Research Initiative database study group: Figueiredo, R., Azevedo, A., Rates, M., Binetti, C., Elgoyhen, A.B., De Ridder, D., Vanneste, S., Staudinger, S., Frank, E., Kreuzer, P., Poepl, T., Lehner, A., Schecklmann, M. (2014). Which tinnitus-related aspects are relevant for quality of life and depression: results from a large international multicentre sample. *Health Quality Life Outcome*, *12*, 1-10.
80. De Ridder, D. & **Vanneste, S.** (2013). The artful mind: sexual selection and an evolutionary neurobiological approach to aesthetic appreciation. *Perspectives in Biology and Medicine*, *56*, 327-340.
81. De Ridder, D., Menovsky, T., Kamerling, N., Plazier, M., & **Vanneste, S.** (2013). Burst spinal cord stimulation for limb and back pain. *World neurosurgery*, *80*, 642-649.
82. De Ridder, D., Plazier, M., Menovsky, T., Kamerling, N., & **Vanneste, S.** (2013). C2 subcutaneous stimulation for failed back surgery syndrome: Case report. *Neuromodulation*, *5*, 1518-1525.
83. De Ridder, D., Song, J. J. & **Vanneste, S.** (2013). Frontal cortex TMS for tinnitus. *Brain Stimulation*, *6*, 355-362.
84. De Ridder, D., **Vanneste, S.** & Menovsky, T. (2013). Pulsatile tinnitus due to a tortuous siphon-like internal carotid artery successfully treated by arterial remodeling: A Case report. *Case report in Otolaryngology, ID 938787*, 1-4.
85. De Ridder, D., Verplaetse, J., & **Vanneste, S.** (2013). The predictive brain and the “free will” illusion. *Frontiers in Theoretical and Philosophical Psychology*, *131*, 1-3.
86. Logé, D., **Vanneste, S.** & Vancamp, T. (2013). Long-Term Outcomes of Spinal Cord Stimulation with Percutaneously Introduced Paddle Leads in the Treatment of FBSS and Lumboischialgia. *Neuromodulation*, *16*, 537-545.
87. Pickut, B., Van Hecke, W., Kerckhofs, E., Mariën, P., **Vanneste, S.**, Cras, P. & Parizel, P. M. (2013). Mindfulness Based Intervention in Parkinson’s disease leads to structural changes on MRI. A randomized controlled longitudinal trial. *Clinical neurology and neurosurgery*, *115*, 2419-2425.
88. Song, J. J., De Ridder, D., Van de Heyning, P. & **Vanneste, S.** (2013). “Distressed aging”: The differences in brain activity between early- and late onset tinnitus. *Neurobiology and Aging*, *34*, 1853-1863.
89. Song, J. J., Kleine Punte, A., De Ridder, D., **Vanneste, S.** & Van de Heyning, P. (2013). Neural substrates predicting improvement of tinnitus after cochlear implantation in patients with single-sided deafness: a preliminary report. *Hearing Research*, *299*, 1-9.
90. **Vanneste, S.** & De Ridder, D. (2013). Brain areas controlling heart rate variability in tinnitus and tinnitus-related distress. *Plos One*, *8*, e59728.
91. **Vanneste, S.** & De Ridder, D. (2013). Differences between a single session and repeated sessions of 1 Hz TMS by double-cone coil prefrontal stimulation for the improvement of tinnitus. *Brain Stimulation*, *6*, 155-159.
92. **Vanneste, S.** & De Ridder, D. (2013). The effect of naltrexone on the perception and distress in tinnitus: An open label pilot study. *International journal of clinical pharmacology and therapeutics*, *51*, 5-11.

93. **Vanneste, S.**, Fregni, F. & De Ridder, D. (2013). Head-to-head comparison of transcranial random noise stimulation, transcranial AC stimulation and transcranial DC stimulation for tinnitus. *Frontiers in Psychiatry*, 4, 1-7.
94. **Vanneste, S.**, Song, J. J. & De Ridder, D. (2013). Tinnitus and musical hallucinosis: the same but more. *Neuroimage*, 82, 373-383.
95. **Vanneste, S.**, van Dongen, M., De Vree, B., Hiseni, S., van der Velden, E., Strydis, C., Norena, A., Serdijn, W. & De Ridder, D. (2013). Does enriched acoustic environment in humans abolish chronic tinnitus clinically and electrophysiologically? A double blind placebo controlled study. *Hearing Research*, 296, 141-148.
96. **Vanneste, S.**, Walsh, V., Van De Heyning, P. & De Ridder, D. (2013). Comparing the suppression of tACS and tDCS in a tinnitus population. A placebo controlled study. *Experimental Brain Research*, 226, 25-31.
97. De Ridder, D. & **Vanneste, S.** (2012). EEG driven tDCS versus bifrontal tDCS. *Frontiers in Psychiatry*, 3, 84-92.
98. De Ridder, D., van der Loo, E., **Vanneste, S.**, Gais, S., Plazier, M., Menovsky, T. et al. (2011). Theta-gamma dysrhythmia and auditory phantom perception: a case report. *Journal of Neurosurgery*, 114, 912-921.
99. De Ridder, D., **Vanneste, S.**, Adriaenssens, I., Po Kee Lee, A., Van de Heyning, P. & Möller, A. (2012). Vascular compression and tinnitus: a pathophysiological investigation. *Acta Neurochirurgica: European Journal of Neurosurgery*, 5, 678-685.
100. De Ridder, D., **Vanneste, S.**, Menovsky, T. & Langguth, B. (2012). Surgical brain modulation for tinnitus: the past, present and future. *Journal of Neurosurgical sciences*, 56, 323-340.
101. 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*, 77, 778-784.
102. De Ridder, D., **Vanneste, S.**, Van Laere, K., Menovsky, T. (2012). Chasing somatosensory reorganization: fMRI and PET guided sensory cortex implant for phantom eye perception associated with anesthesia dolorosa. A case report. *World Neurosurgery*, 12, 1441-1446.
103. Elgoyhen, A. B., Langguth, B., **Vanneste, S.**, & De Ridder, D. (2012). Tinnitus: Network pathophysiology-network pharmacology. *Frontiers in System Neuroscience*, 6, 1-12.
104. Faber, M.* , **Vanneste, S.***, Fregni, F., & De Ridder, D. (2011). Top down prefrontal affective modulation of tinnitus with multiple sessions of tDCS of dorsolateral prefrontal cortex. *Brain Stimulation*, 4, 492-498.
105. Joos, K., **Vanneste, S.**, & De Ridder, D. (2012). Disentangling mood and distress networks in the tinnitus brain. *Plos One*, 7, e40544.
106. 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. (2012). Trauma-associated Tinnitus: Audiological, Demographic and Clinical Characteristics. *Plos One*, 7, e45599.
107. Landgrebe, M., Zeman, F., Koller, M., Hajak, G., Flor, H., Cacace, A., Baguley, D., Hiller, W., Kleinjung, T., Lainez, J.M., De Ridder, D., **Vanneste, S.**, Van de Heyning, P., Coelho, C., Khedr, E., Londero, A., Mennemeier, M., Dornhoffer, J., Figueiredo, R. Azevedo, A., Searchfield, G., Piccirillo, J., Martin, H., Rupprecht, R., & Langguth, B. (2012). Methodological aspects of clinical trials in tinnitus: A proposal for an international standard. *Journal of Psychosomatic Research*, 73, 112-121.
108. Langguth, B., Schecklmann, M., Lehner, A., Landgrebe, M., Poepl, T., Kreuzer, P., Weisz, N., **Vanneste, S.**, De Ridder, D. (2012). Neuroimaging and neuromodulation: complementary approaches for identifying the neuronal correlates of tinnitus. *Frontiers in system neuroscience*, 6, 1-20.
109. Plazier, M., Joos, K., **Vanneste, S.**, Ost, J., & De Ridder, D. (2012). Bifrontal and bioccipital transcranial Direct Current Stimulation (tDCS) does not induce mood changes in healthy volunteers: a double blind placebo controlled study. *Brain Stimulation*, 5, 454-461.

* The first two authors equally contributed to the manuscript

110. Song, J. J., **Vanneste, S.**, Van de Heyning, P. & De Ridder, D. (2012). Transcranial direct current stimulation in tinnitus patients: a systemic review and meta-analysis. *The Scientific World Journal*, 2012, 1-7.
111. Song, J.J., De Ridder, D., Van de Heyning, P. & **Vanneste, S.** (2012). Mapping the tinnitus-related brain activation: an ALE meta-analysis of PET studies. *Journal of Nuclear Medicine*, 53, 1550-1557.
112. Vanneste, S. & De Ridder, D. (2012). Non-invasive and invasive neuromodulation for the treatment of tinnitus: An overview. *Neuromodulation*, 15, 350-360.
113. **Vanneste, S.** & De Ridder, D. (2012). Parietal double cone coil stimulation in tinnitus. *Experimental Brain Research*, 221, 337-343.
114. **Vanneste, S.** & De Ridder, D. (2012). The auditory and non-auditory brain areas involved in tinnitus. An emergent property of multiple parallel overlapping subnetworks. *Frontiers in system neuroscience*, 6, 1-9.
115. **Vanneste, S.** & De Ridder, D. (2012). The involvement of the left ventrolateral prefrontal cortex in tinnitus: A TMS Study. *Experimental Brain Research*, 221, 345-350.
116. **Vanneste, S.** & De Ridder, D. (2012). The use of alcohol as a moderator for tinnitus-related distress. *Brain Topography*, 25, 97-105.
117. **Vanneste, S.**, Figueiredo, R. & De Ridder, D. (2012). Treatment of Tinnitus with Cyclobenzaprine: An open label study. *International journal of clinical pharmacology and therapeutics*, 5, 338-44.
118. **Vanneste, S.**, Joos, K. & De Ridder, D. (2012). Prefrontal cortex based sex differences in tinnitus perception: same tinnitus intensity, same tinnitus distress, different mood. *Plos One*, 7, e31182.
119. De Ridder, D., **Vanneste, S.**, Congedo, M. (2011). The distressed brain: An independent component analysis in tinnitus. *Plos One*, 6, e24273.
120. De Ridder, D., **Vanneste, S.**, Kovacs, S., Sunaert, S. & Geert Dom (2011). Transient alcohol craving suppression by rTMS of dorsal anterior cingulate: an fMRI and LORETA EEG study. *Neuroscience Letters*, 496, 5-10.
121. De Ridder, D., **Vanneste, S.**, Kovacs, S., Sunaert, S., Menovsky, T., Van de Heyning, P. et al. (2011). Transcranial magnetic stimulation and extradural electrode implants on secondary auditory cortex for tinnitus suppression. *Journal of Neurosurgery*, 114, 912-921.
122. Depoorter, B., Van Hiel A., **Vanneste, S.** (2011). Copyright Backlash. *Southern California Law Review*.
123. Hiseni S., Sawigun, C., **Vanneste, S.**, van der Velden, E., De Ridder, D. & Serdijn, W. A. (2011). A Nano Power CMOS Tinnitus Detector for a Fully Implantable Closed-Loop Neurodevice. *Conference Proceedings IEEE Biomedical circuits and system*.
124. Plazier, M., **Vanneste, S.**, Dekelver, I., Thimineur, M. & De Ridder, D. (2011). Peripheral nerve stimulation for fibromyalgia. *Progress in Neurology Surgery*, 24, 133-46.
125. van der Loo, E., Congedo, M., **Vanneste, S.**, Van de Heyning, P. & De Ridder, D. (2011). Insular Lateralization in Tinnitus Distress. *Autonomic Neuroscience: Basic and Clinical*, 165, 191-194.
126. Van Zimmeren, E., **Vanneste, S.**, Matthijs, G., Vanhaverbeke, W. & Van Overwalle, G. (2011). Opportunities for Open Innovation and Collaborative Patent Licensing in Medical Biotechnology. *Trends in Biotechnology*, 29, 569-576.
127. **Vanneste, S.**, & De Ridder, D. (2011). Bifrontal transcranial direct current stimulation modulates tinnitus intensity and tinnitus distress related brain activity. *European Journal of Neuroscience*, 34, 605-614.
128. **Vanneste, S.**, Focquaert, F., Van de Heyning & De Ridder, D. (2011). Different resting state brain activity and functional connectivity in patients who respond and not respond to bifrontal tDCS for tinnitus suppression. *Experimental Brain Research*, 210, 217-227.
129. **Vanneste, S.**, Langguth, B., & De Ridder, D. (2011). Do tDCS and TMS influence tinnitus temporally transiently via a direct cortical and indirect somatosensory modulating effect? A combined TMS-tDCS and TENS study. *Brain stimulation*, 4, 242-52.
130. **Vanneste, S.**, Plazier, M., Van de Heyning, P., & De Ridder, D. (2011). rTMS frequency dependent tinnitus improvement by double-cone coil prefrontal stimulation. *Journal of Neurology, Neurosurgery and Psychiatry*, 82, 1160-1164.
131. **Vanneste, S.**, Plazier, M., van der Loo, E., Ost, J., Meeus, O., Van de Heyning, P., et al. (2011). Validation of the Mini-TQ in a Dutch-speaking population. A rapid assessment for tinnitus-related distress. *B-ENT*, 7, 31-36.

132. **Vanneste, S.**, Plazier, M., van der Loo, E., Van de Heyning, P., & De Ridder, D. (2011). The difference between uni- and bilateral auditory phantom percept. *Clinical Neurophysiology*, 122, 578-287.
133. **Vanneste, S.**, To, W. T., & De Ridder, D. (2011). The psychometric properties of the Tinnitus Handicap Questionnaire in a Dutch-speaking population. *Clinical Otolaryngology*, 36, 9-16.
134. **Vanneste, S.**, Van de Heyning, P., & De Ridder, D. (2011). Contralateral parahippocampal gamma-band activity determines noise-like tinnitus laterality. *Neuroscience*, 199, 481-490.
135. **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. *European Journal of Neuroscience*, 34, 718-731.
136. Vonhögen, L. H., Vancamp, T., **Vanneste, S.**, Pollet, W., Dirksen, R., Bakker, P., Mestrom, I., van de Looij, T., Plazier, M., De Ridder, D. (2011). Percutaneously implanted plate electrodes in failed back surgery syndrome (FBSS). *Neuromodulation*, 14, 319-324.
137. De Ridder, D., **Vanneste, S.**, Adriaenssens, I., Lee, A. P., Plazier, M., Menovsky, T., et al. (2010). Microvascular decompression for tinnitus: significant improvement for tinnitus intensity without improvement for distress. A 4-year limit. *Neurosurgery*, 66, 656-660.
138. De Ridder, D., **Vanneste, S.**, Plazier, M., van der Loo, E., & Menovsky, T. (2010). Burst spinal cord stimulation: toward paresthesia-free pain suppression. *Neurosurgery*, 66, 986-990.
139. Focquaert, F., Steven-Wheeler, M. S., **Vanneste, S.**, Doron, K. W., & Platek, S. M. (2010). Mindreading in individuals with an empathizing versus systemizing cognitive style: An fMRI study. *Brain Research Bulletin*, 83, 214-222.
140. **Vanneste, S.**, Plazier, M., Ost, J., van der Loo, E., Van de Heyning, P., & De Ridder, D. (2010). Bilateral dorsolateral prefrontal cortex modulation for tinnitus by transcranial direct current stimulation: a preliminary clinical study. *Experimental Brain Research*, 202, 779-785.
141. **Vanneste, S.**, Plazier, M., Van de Heyning, P., & De Ridder, D. (2010). Transcutaneous electrical nerve stimulation (TENS) of upper cervical nerve (C2) for the treatment of somatic tinnitus. *Experimental Brain Research*, 204, 283-287.
142. **Vanneste, S.**, Plazier, M., van der Loo, E., Ost, J., Van de Heyning, P., & De Ridder, D. (2010). Burst transcranial magnetic stimulation: which tinnitus characteristics influence the amount of transient tinnitus suppression? *European Journal of Neurology*, 17, 1141-1147.
143. **Vanneste, S.**, Plazier, M., van der Loo, E., Van de Heyning, P., & De Ridder, D. (2010). The Differences in Brain Activity between Narrow Band Noise and Pure Tone Tinnitus. *PLoS One*, 5, e13618.
144. **Vanneste, S.**, Plazier, M., van der Loo, E., Van de Heyning, P., Congedo, M., & De Ridder, D. (2010). The neural correlates of tinnitus-related distress. *Neuroimage*, 52, 470-480.
145. Verplaetse, J., & Vanneste, S. (2010). Is cheater/cooperator detection an in-group phenomenon? Some preliminary findings. *Letters on Evolutionary Behavioral Science*, 1, 10-14.
146. De Ridder, D., **Vanneste, S.**, van der Loo, E., Plazier, M., Menovsky, T., & van de Heyning, P. (2009). Burst stimulation of the auditory cortex: a new form of neurostimulation for noise-like tinnitus suppression. *Journal of Neurosurgery*, 112, 1289-1294.
147. van der Loo, E., Gais, S., Congedo, M., **Vanneste, S.**, Plazier, M., Menovsky, T., et al. (2009). Tinnitus intensity dependent gamma oscillations of the contralateral auditory cortex. *PLoS One*, 4, e7396.
148. Van Hiel, A., **Vanneste, S.**, & De Cremer, D. (2008) Why did they claim too much, or too little? The role of causal attributions in explaining level of cooperation in commons and anticommens dilemmas. *Journal of Applied Social Psychology*, 38, 173-197.
149. **Vanneste, S.**, Verplaetse, J., Van Hiel, A., & Braeckman, J. (2007). Attention bias towards non-cooperative people. A dot probe classification study in cheating detection. *Evolution & Human Behavior*, 4, 272-276.
150. Verplaetse, J., **Vanneste, S.**, & Braeckman, J. (2007). You Can Judge a Book By Its Cover: The Sequel. A Kernel of Truth in Predictive Cheating Detection. *Evolution & Human Behaviour*, 4, 260-271.
151. Depoorter, B. & **Vanneste, S.** (2006). Norms and Enforcement: The Case against copyright litigation. *Oregon Law Review*, 84, 1127-1180.

152. Depoorter, B. & **Vanneste, S.** (2006). Putting Humpty Dumpty back together: Experimental Evidence of Anticommons Tragedies. *Journal of Law, Economics & Policy*, 1, 1-24.
153. **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.
154. Depoorter, B., Parisi, P. & **Vanneste, S.** (2005). Problems with the enforcement of copyright law: Is there a Social Norm Backlash? *International Journal of Economics of Business*, 3, 361-369.

National peer-reviewed articles

1. Luigjes, J., Breteler, R., De Ridder, D. & **Vanneste, S.** (in press). Neuromodulatie als interventie voor verslaving: Stand van zaken en toekomstperspectief. *Tijdschrift voor Psychiatrie*.
2. Joos, K., De Ridder D., **Vanneste S.** (2012) De neurale netwerken van stotteren en de therapeutische mogelijkheden van transcranieële Direct Current Stimulatie (tDCS) en Transcraaniële Magnetische Stimulatie (TMS). *Logopedie*.
3. Dammekens, E., **Vanneste, S.**, & De Ridder, D. (2010). Toepassing van niet-invasieve technieken van hersenstimulatie bij personen met afasie. *Logopedie*, 39-46.
4. De Geest, G., Depoorter, B., & **Vanneste, S.** (2005). Naschrift. *Nederlands Juristenblad*, 12, 638.
5. **Vanneste, S.** (2005). Freakonomics: a rogue economist explores the hidden side of everything. *Panopticon: Tijdschrift voor strafrecht, criminologie en forensisch welzijnswerk*, 5, 90-91.
6. **Vanneste, S.** (2005). Op zoek naar de nieuwe polygraaf? *Panopticon: Tijdschrift voor strafrecht, criminologie en forensisch welzijnswerk*, 4, 74-78.
7. De Geest, G., Depoorter, B., & **Vanneste, S.** (2004). Hoe groot zijn de inherente beperkingen van rechtseconomie bij criminaliteitsvraagstukken? *Nederlands Juristenblad*, 37, 1920-1944.
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, D., Vanneste, S. (in press). Fundamentals of Burst Stimulation of the Spinal Cord and Brain. In *Neuromodulation 2e, VOL1*, edited by Eliot Kramer and Joseph Pancrazio. Elsevier.
2. De Ridder, **Vanneste, S.**, D., Stöckl T., Langguth, B. & To, W. T. (in press). Non-invasive transcranial magnetic and electrical stimulation: working mechanisms. In *Rhythmic Stimulation Procedures in Neuromodulation*, edited by James Evans & Robert Turner, London: Elsevier.
3. 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.
4. 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.
5. 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,
6. Dammekens, E., Lafosse, C., Van Kerckhoven, L., Buys, R., Ost, J., & **Vanneste, S.** (2013). Transcraaniële direct current stimulatie en taaltherapie. In *Het (voor)beeldig beeld*, edited by E. Robert, E. Visch-Brink, A.-S. Beckamn. Anterp: Garant,
7. 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
8. 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.
9. **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.
10. **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. 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, Tokio. (Translated in Japanese)
2. Verplaetse, J., De Schrijver, Vanneste, S., & Braeckman, J. (2009). *The moral Brain: Essays on the evolutionary and neuroscientific aspects of morality*. Springer, New York.

Reports

1. 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). Vrangelijst Studie- en Examenvaardigheden Levenslang Leren VaSEV-LLL. Vocvo, Mechelen.

Presentations

Invited talks

1. **Vanneste, S.** (2015). Commonalities between fibromyalgia and tinnitus. Central Gating of Tinnitus and Chronic Pain, University of Munich, September 6th, Germany.
2. **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.
3. **Vanneste, S.** (2015). Log-dynamics in phantom sounds: Identify tinnitus subtypes and their neurobiological underpinnings. Regensburg. April 29th. Germany
4. **Vanneste S.** (2015). Fibromyalgia an enigma? Invited talk at Center for Longevity, The University of Texas at Dallas, April 6th, USA.
5. **Vanneste S.** (2015). Tuning the Brain: Neuromodulation as a Possible Panacea for treating non-pulsatile tinnitus? Invited Talk at Otolaryngology-2015, March 20th, Dubai
6. **Vanneste, S.** (2014). How brain networks are involved in tinnitus. Invited talk at University Medical Hospital Groningen, November 28th, The Netherlands.
7. Vanneste, S. (2014). Tinnitus treatment: an overview. Invited talk at St-Augustinus Hospital, November 26th, Belgium.
8. **Vanneste, S.** (2014). Robbed of silence by tinnitus: How the brain is involved in tinnitus? Invited talk Texas Audiology Association, October 24th, USA.
9. **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
10. **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
11. **Vanneste, S.** (2013). Flash: series: Why does the brain generate tinnitus? Invited talk at The University of Texas at Dallas, September 27th, USA
12. **Vanneste, S.** (2013). Neuromodulation as a tool to understand Tinnitus. Invited talk at The University of Auckland, June 19th, New Zealand.
13. **Vanneste S.** (2013). Forensische neurobiologische behandeling. Symposium: Schuld onder de Schedel, May 31th, Ghent University, Belgium.
14. **Vanneste, S.** (2013). The neural correlates of tinnitus. Invited talk at the University of Buenos Aires, February 4th, Argentina.
15. **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.
16. **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.

17. **Vanneste, S.** (2012). The neuroscience of tinnitus. September 7th. Invited talk the Harvard Medical School, Cambridge, USA.

Conferences

1. Mohan A.M., De Ridder D.D.R., **Vanneste S.** (2016). Emerging network connectomics in phantom sound perception. 10th International Tinnitus Research Initiative Conference and 1st EU Cost Action (TINNET) Conference, 6th – 18th March 2016, TRI 2016, Nottingham, U.K.
2. 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, 6th – 18th March 2016, TRI 2016, Nottingham, U.K.
3. 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, 6th – 18th March 2016, TRI 2016, Nottingham, U.K.
4. 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.
5. Tyler, R. & **Vanneste, S.** (2015). Vagus Nerve Stimulation paired with tones for the treatment of tinnitus. Audiology Now, March 25–28, San Antonio, TX.
6. 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.
7. **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.
8. **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.
9. De Ridder, D., Congedo, M., & **Vanneste, S.** (2014). Parahippocampal-auditory cortex communication in tinnitus. March 13-15, TRI 2014, Auckland New-Zealand.
10. **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.
11. 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.
12. De Ridder, D. & **Vanneste, S.** (2013). Similarities between tinnitus and pain. Neurological foundation, University of Auckland, June 4, Auckland, New Zealand.
13. 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.
14. De Ridder, D. & **Vanneste, S.** (2013). Non-invasive neuromodulation: Merely Investigational or treatment tool. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
15. De Ridder, D. & **Vanneste, S.** (2013). Phantom perceptions. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
16. 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.
17. 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.
18. 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.

19. Plazier, M., **Vanneste, S.** & De Ridder, D. (2013). A window to the brain during occipital nerve stimulation in Fibromyaglia patients: a PET scan study. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
20. 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.
21. Wahlstedt, A., Leljevahl 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.
22. 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.
23. 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.
24. **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.
25. 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.
26. 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.
27. **Vanneste, S.** (2013). Using TMS as a diagnostic and treatment tool for tinnitus: different targets. Meeting Mica group, February 22nd, Antwerp, Belgium.
28. 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
29. 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
30. **Vanneste, S.** (2013). Multisensory stimulation for the treatment of tinnitus. Meeting Sins group, January 29th, Delft, The Netherlands.
31. 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.
32. 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.
33. 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 sate fMRI. 6th International TRI conference: The art and science of innovation. Bruges Belgium.
34. 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.
35. 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.
36. **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.
37. De Ridder, D., & **Vanneste, S.** (2011). Frontal & Parietal TMS. X International Tinnitus Seminar. March 16 to 19, Florianopolis – Santa Catarina, Brazil.

38. 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.
39. Killgard, 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.
40. **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.
41. 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
42. **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.
43. **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
44. **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.
45. **Vanneste, S.** (2010). Acute versus chronic tinnitus. Neurostimulation workgroup, October 29, Université Paris-Descartes, Faculté de Médecine, Hôpital Européen Georges Pompidou Paris, France.
46. **Vanneste, S.** (2010). Filling the Gap. December 8, 2010. University of Regensburg, Regensburg, Germany.
47. **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.
48. **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.
49. **Vanneste, S.** (2009). Burst TMS for tinnitus. Neurostimulation workgroup, April 21, University Antwerp, Antwerp, Belgium.
50. **Vanneste, S.** (2009). International neuromodulation society 9th world congress 11-15 September, Seoul, South Korea. Talk: Transcranial direct current stimulation: a Preliminary study 4.
51. **Vanneste, S.** (2009). The neural correlates of distress. Neurostimulation workgroup, April 20, University Antwerp, Antwerp, Belgium.
52. **Vanneste, S.** (2009). The neural correlates of tinnitus. Opening TRI-center, April 22, University Hospital, Antwerp, Antwerp, Belgium
53. **Vanneste, S.** (2009). Workshop Centre for intellectual property (CIR) KU Leuven, Leuven, February 20.
54. Vanneste, S. (2009). Workshop on Cheater/Cooperator Detection, Sapporo, Hokkaido University, March 29-30 2009. Invited Speaker.
55. Depoorter, B., & **Vanneste, S.** (2006). Norms and Enforcement: The Case against Copyright Litigation. Workshop on Law and Economics. University of Hamburg.
56. 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.
57. **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.
58. **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.
59. **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.

60. **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.
61. Dare-Mattiacci, G., **Vanneste, S.**, and Van Hiel, A. (2005). Anticommons and the most-favored-nation Clause. Erasmus Law and Economics Conference, Ghent University.
62. 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.
63. 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.
64. Depoorter, B. & **Vanneste, S.** (2004). *Copyright Enforcement: Gentle Nudges or Hard Shaves. Casle working paper session, Ghent University.*
65. Depoorter, B. & **Vanneste, S.** (2004). *Copyright Enforcement: Gentle Nudges or Hard Shaves. Works in Progress Intellectual Property Colloquium, Boston College.*
66. Depoorter, B., & **Vanneste, S.** (2004). Copyright Litigation Impossibility. George Mason Law School, Arlington, VA.
67. 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.
68. **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*
69. **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.
70. **Vanneste, S.** & Depoorter, B. (2003). Putting Humpty Dumpty back together: experimental verification of the anticommons tragedy. *Casle working paper session, Ghent University*

Popular scientific talks

1. **Vanneste S.** (2013). Forensische neurobiologische diagnose & behandeling: een toekomst visie. Symposium: Schuld onder de Schedel, May 31, Gent.
2. **Vanneste S.** (2013). Neuromodulatie als een potentiële behandeling voor verslaving. Stedelijk Overlegplatform Drugs Antwerpen (SODA), May 21, Antwerpen.

Posters

1. 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.
2. 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.
3. Adjajian 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.
4. Alsalman, 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.
5. 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.

6. 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.
7. Van Camp, T., De Ridder, D. & **Vanneste, S.** (2015). From Tonic to Burst: Re-capturing Pain Relief.
8. 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.
9. 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.
10. 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.
11. 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.
12. Plazier, M., **Vanneste, S.**, Ots, J., Menosvky, 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.
13. 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.
14. 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: responds comparison and budget impact modelling. 11th World Congress, International Neuromodulation Society, June 8-13, Berlin, Germany.
15. Wahlstedt, A., Leljevahl 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.
16. 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.
17. Joos, K., **Vanneste, S.** & De Ridder, D. (2013). Multisensory congruence treatment for tinnitus. 7th International TRI conference: Valencia, Spain.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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*.
29. 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.
30. 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-CT). 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.

Awards

1. 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.
2. 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.

3. 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”.
4. FWO (The Research Foundation - Flanders) travel grant 2012: Visiting scholar at the Neuromodulation center at Harvard University.

Editorial Board

Frontiers in Psychiatry

Plos One

BioMed Research International (Special Issue: Pathology of Tinnitus and Hyperacusis-Clinical Implications)

Frontiers (Special Issue: Frontiers Research Topic: Towards an Understanding of Tinnitus Heterogeneity)

Reviewer for Grant proposals

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

Auckland Medical Research Foundation (www.medicalresearch.org.nz)

National Institute of Health (NIH; www.nih.gov/)

Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO; www.nwo.nl)

Neurological Foundation of New Zealand (www.neurological.org.nz)

Swiss National Science Foundation (FNSNF; www.snf.ch)

The Fund for Scientific Research-FNRS (F.R.S.-FNRS; www.fnrs.be)

Reviewer for Scientific Journals

- | | |
|--|---|
| 1. Advances in Research | 38. International Journal of Environmental Research and Public Health |
| 2. Austin Journal of Clinical Neurology | 39. Internet Interventions |
| 3. Behavioral Brain Research | 40. JAMA |
| 4. BioMed Research | 41. Journal of Molecular Pathophysiology |
| 5. BMC Neurology | 42. Journal of Neural Engineering |
| 6. BMC Neuroscience | 43. Journal of Neurology |
| 7. BMC Health Services Research | 44. Journal of Neuroscience Methods |
| 8. BMJ Open | 45. Journal of Psychosomatic Research |
| 9. Brain | 46. Journal of Speech, Language and Hearing Research |
| 10. Brain Plasticity | 47. Medical Science Monitor |
| 11. Brain Research | 48. Neural Plasticity |
| 12. Brain Stimulation | 49. Neuroimage |
| 13. Brain Structure and Function | 50. Neuropsychiatric Disease and Treatment |
| 14. Brain Topography | 51. Neurorehabilitation & Neural Repair |
| 15. British Journal of Medicine and Medical Research | 52. Neuromodulation |
| 16. Case Reports in Neurological Medicine | 53. Neuroscience & Biobehavioral Reviews |
| 17. Computers in Biology and Medicine | 54. Neurosurgery |
| 18. Chiropractic & Manual Therapies | 55. Pain |
| 19. Clinical Neurology and Neurosurgery | 56. Patient Preference and Adherence |
| 20. Comprehensive Psychiatry | |

- | | |
|--|--|
| 21. Developmental Neuropsychology | 57. Personality and Individual Difference |
| 22. Ear and Hearing | 58. Plos Medicine |
| 23. European Archives of Oto-Rhino-Laryngology and Head & Neck | 59. Plos One |
| 24. European Psychiatry | 60. Progress in Neuro-Psychopharmacology & Biological Psychiatry |
| 25. European Journal of Neuroscience | 61. Progress in Neurobiology |
| 26. Expert Review of Medical Device | 62. Psychomusicology: Music, Mind, and Brain |
| 27. Evolution & Human Behavior | 63. Restorative neurology and neuroscience |
| 28. Frontiers in Cellular Neuroscience | 64. Scientific reports |
| 29. Frontiers in Psychiatry | 65. Social Psychiatry and Psychiatric Epidemiology |
| 30. Frontiers in Neuroscience | 66. The journal Clinical Neuroradiology |
| 31. Frontiers in System Neuroscience | 67. The European Journal of Pharmacology |
| 32. Hearing Research | 68. The Laryngoscope |
| 33. IEEE Transactions on Neural Systems & Rehabilitation Engineering | 69. Trends in Cognitive Sciences |
| 34. International Journal of Neurophysiology | 70. Trials |
| 35. Human Brain Mapping | 71. World Journal of Biological Psychiatry |
| 36. International Journal of Audiology | |
| 37. International Journal of Emergency Mental Health | |

Research Support

- Stavros Niarchos Foundation 2010-2013: Prevention of tinnitus persistence after acoustic trauma in adolescents and young adults: a pathophysiologically based approach.
- Microtransponder. 2010-2011: A Proof-of-Concept Pilot Study Assessing Vagus Nerve Stimulation (VNS) Paired with Tones for Tinnitus.
- Intellect Medical, Inc. 2009-2011: 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-CT). Support for 20 patients.
- Postdoctoral Fellowship (The Research Foundation - Flanders). 2011-2014: Auditory conscious percept.
- TOP BOF financiering UA 2011-2015: How is an auditory conscious percept generated?
- University of Texas at Dallas Clinical trial grant 2013-2016: A Blinded Randomized Pilot Study Assessing Vagus Nerve Stimulation (VNS) Paired with Tones for Tinnitus vs. VNS with Unpaired Tones - MicroTransponder's Serenity System.
- COST-action BM1306 2014-2018: Better Understanding the Heterogeneity of Tinnitus to Improve and Develop New Treatments.
- Darell Royal Foundation for Alzheimer Research 2015-2018: Non-invasive brain stimulation to improve memory retrieval in patients with mild cognitive impairment.
- Private donation 2016-2018: The development of new types of spin cord stimulation.

- UT Dallas Faculty Research Initiative 2016-2017: Subtyping of tinnitus by neuroimaging and catechol-O-methyltransferase genotyping.
- UT Dallas Faculty Research Initiative 2017-2018: High definition transcranial direct current stimulation modulates the cingulate cortex
- UT Dallas Faculty Research Initiative 2017-2018: Neural changes in acute tinnitus induced by the Zwicker tone illusion
- DARPA 2017-2021: Targeted Neuroplasticity Training to Accelerate Complex Skill Learning Performance.
- CDMRP/GWIRP 2016-2020: Treatment of memory Disorders in Gulf War Illness with High Definition Transcranial Direct Cortical Stimulation.
- CDMRP/DOD 2017-2020: Treating PTSD with Neurostimulation and Cognitive Processing Therapy.