

Resume

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-...
- Honorary Research Associate Professor in the Department of Surgical Sciences, University of Otago, New Zealand, 2015 -...
- Director Lab for Clinical & Integrative Neuroscience, University of Texas at Dallas - Callier Center for Communication Disorders, 2013 - ...
- Director of Neuromodulation, University of Texas at Dallas - Center for Brain Health, 2016 - ...
- Clinical Director, University of Texas at Dallas – Texas Biomedical Device Center, 2016 - ...
- Brai3n research clinical, founder and executive director, 2017 ...
- Member Institutional Review Board UT Dallas, 2017 - ...
- Member Texas Pain Research Consortium, 2017 - ...
- Member of the management committee COST-action BM1306: Better Understanding the Heterogeneity of Tinnitus to Improve and Develop New Treatments. 2014 -...
- Workgroup leader of COST-action BM1306: Workgroup Neuroimaging. 2014 -...
- Principal Investigator for the Tinnitus Research Initiative, Pharmagroup, 2011 - ...

Previous work experience

- Guest professor of Neuroscience at the Research Group Translational Neuroscience, Department of ENT, Faculty of Medicine and Health Science, University of Antwerp, USA, 2013-2016
- 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
- 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

- 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. 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

- 2016 - ... : 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

- Ad Hoc tenure Committee
- System neuroscience PhD appointment Committee (2017 - ...)
- Callier Research Committee (2013 - ...)
- Callier Post-doc appointment Committee (2013 - ...)
- Communication disorder PhD appointment Committee (2013 - ...)
- 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. Received 2014.
2. Mark Plazier. Greater Occipital Nerve stimulation: a surgical treatment for Fibromyalgia. Received 2017.
3. Anusha Mohan. Brain networks in tinnitus. Expected 2018
4. Hye Bin Yoo. Real-Time Changes in Brain during Transcranial C2 Stimulation Measured by Dynamic Functional Connectivity. Expected 2018
5. Jeffery Hullfish. Functional MRI and tinnitus. Expected 2019
6. Yuefeng Huang. Improving learning using peripheral nerve stimulation. Expected 2020

Doctoral Committee

1. Bambi De la Rosa. Electrophysiological dynamics during visual threat processing in combat-related PTSD. Defense 2016.
2. Michael Borland. Understanding and optimizing VNS directed plasticity.
3. Julie Fratantoni. Theta entrainment to modulate cognitive control of language functions.
4. Elizabeth Buell. Optimizing parameters to enhance targeted plasticity in auditory cortex.

Publications (H-index: 42)

International peer-reviewed articles

1. Mohan, A., Davidson, C., De Ridder, D. & **Vanneste, S.** (in press). Effective Connectivity Analysis of Inter-And Intra-Modular Hubs in Phantom Sound Perception – Identifying the Core Distress Network. *Neuropsychiatry*.
2. Shekhawat, G. J. & **Vanneste, S.** (in press). High-definition transcranial direct current stimulation of the dorsolateral prefrontal cortex for tinnitus modulation: a preliminary trial. *Journal of Neural Transmission*.
3. **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*.
4. **Vanneste, S.**, Song, J. J. & De Ridder, D. (in press). Thalamocortical dysrhythmia detected by machine learning. *Nature communication*.
5. Yoo, H. B., Ost, J., Joos, W., Van Havenbergh, T., De Ridder, D. & **Vanneste S.** (in press). Adding Prefrontal Transcranial Direct Current Stimulation before Occipital Nerve Stimulation in Fibromyalgia. *The Clinical Journal of Pain*.
6. Ahmed, S., Yearwood, T., De Ridder, D. & **Vanneste, S.** (2018). Burst and High Frequency Stimulation: Underlying Mechanism of Action. *Expert in Medical Devices*, 15, 61-70.
7. Borland, B. S., Engineer, C. T., Vrana, W. A., Moreno, N. A., Engineer, N. D., **Vanneste, S.**, Sharma, P., Pantalia, M. C. Lane, M. C., Rennaker, R. L., Kilgard, M. P. (2018). The interval between VNS-tone pairings determines the extent of cortical map plasticity. *Neuroscience*, 369, 76-86.
8. Engineer, C.T., Rahebi, K.C., Borland, Buell, E.P., Im, K. W., Wilson, L.G., Sharma, P., **Vanneste, S.**, Harony-Nicolas, H., Buxbaum, J. D. & Kilgard, M. P. (2018). Shank3-deficient rats' exhibit degraded cortical responses to sound. *Autism Research*, 1, 59-68.

9. Han, J.J., Jang J. H, De Ridder, D., **Vanneste, S.**, Koo J. W. & Song, J. J. (2018). Increased parietal circuit-breaker activity in delta frequency band and abnormal delta/theta band connectivity in salience network in hyperacusis subjects. *Plos One*, *13*, e0191858.
10. Huang, Y., Mohan, A., De Ridder, D., Sunaert, S. & **Vanneste, S.** (2018). The neural correlates of the unified percept of alcohol-related craving: a fMRI and EEG study. *Scientific Reports*, *8*: 923.
11. Leong, S. K, De Ridder, D, **Vanneste, S.**, Sutherland, W., Ross, S. & Manning P. (2018). High definition transcranial pink noise stimulation of anterior cingulate cortex on food craving: an explorative study. *Appetite*. *120*, 673-678.
12. D'Arcy, S., Hamilton, C., Hughes, S., **Vanneste, S.**, Hall, D. A., Langguth, B. & Conlon, B. (2017). Bi-modal stimulation in the treatment of tinnitus: a study protocol for an exploratory trial to optimise stimulation parameters and patient subtyping. *BMJ open*, *7*, 1-9.
13. De Ridder, D., Leong, S.L., Manning, P., **Vanneste, S.** & Glue, P. (2017). Anterior Cingulate Implant for Obsessive Compulsive Disorder. *World Neurosurgery*, *97*, 754-777.
14. De Ridder, D. & **Vanneste, S.** (2017). State of the Art: Novel Applications for Cortical Stimulation. *Neuromodulation*, *20*, 206-214.
15. De Ridder, D., Perera, S. & **Vanneste, S.** (2017). Is 10 kHz stimulation and burst stimulation fundamentally the same? *Neuromodulation*, *20*, 650-653.
16. De Ridder, D. & **Vanneste, S.** (2017). Occipital nerve field tDCS normalizes imbalance between pain detecting and pain inhibitory pathways in fibromyalgia. *Neurotherapeutics*, *14*, 484-501.
17. De Ridder, D., **Vanneste, S.** & Langguth, B. (2017). Deep Brain Stimulation of the Ventral Anterior Limb of the Internal Capsule for Treatment-Resistant Depression: A Randomized Clinical Trial. *Annals of Translational Medicine*, *5*, 167-172.
18. 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. (2017). Evidence-based guidelines on the therapeutic use of transcranial direct current stimulation (tDCS). *Clinical Neurophysiology*, *128*, 56-92.
19. Lee, S. Y., Nam D. W., Koo, J. K., De Ridder, D., **Vanneste, S.** & Song, J. J. (2017). No auditory experience, no tinnitus: Lessons from subjects with congenital- and acquired single-sided deafness. *Hearing Research*, *354*, 9-15.
20. Mohan, A., De Ridder, D. & **Vanneste, S.** (2017). Robustness and dynamicity of functional networks in phantom percept. *Neuroimage*, *146*, 171-187.
21. Mohan, A. & **Vanneste, S.** (2017). Adaptive and maladaptive neural compensatory consequences of sensory deprivation-From a phantom percept perspective. *Progress in Neurobiology*, *153*, 1-17.
22. Mohan, A., Moreno, N., Song, J. J., De Ridder, D. & **Vanneste, S.** (2017). Evidence for behaviorally segregated, spatio-temporally overlapping subnetworks in phantom sound perception. *Brain Connectivity*, *7*, 197-210.
23. Song, J.J., Kim, K., Sunwoo, W., Lee, S. P., Mertens, G., Van de Heyning, P., De Ridder, D., **Vanneste, S.**, Park, K.J., Choi, C. & Choi, J.W. (2017). A Quantitative Electroencephalography Study on Cochlear Implant-Induced Cortical Changes in Single-Sided Deafness with Tinnitus. *Frontiers in Human Neuroscience*, *10*.3389, 1-10.
24. To, W. T., De Ridder, D., Menovsky, T., Hart, J. & **Vanneste, S.** (2017). The role of the dorsal Anterior Cingulate Cortex (dACC) in a cognitive and emotional counting Stroop task: Two cases. *Restorative neurology and neuroscience*, *35*, 333-345.
25. To, W. T., Ost, J., Hart, J. De Ridder, D. & **Vanneste, S.** (2017). The added value of auditory cortex transcranial Random Noise Stimulation (tRNS) after bifrontal transcranial Direct Current Stimulation (tDCS) for tinnitus. *Journal of Neural Transmission*, *124*, 79-88.
26. To, W. T., Ost, J., Hart, J., & **Vanneste, S.** (2017). Differential effects of bifrontal and occipital nerve stimulation on pain and fatigue using transcranial direct current stimulation in fibromyalgia patients. *Journal of Neural Transmission*, *124*, 799-808.
27. Tyler, R., Cacace, A., Stocking, C., Tarver, B., Engineer, N., Martin, J., Deshpande, A., Stecker, N., Pereira, M., Kilgard, M., Burrell, C., Pierce, D., Rennaker, R. & **Vanneste, S.** (2017). Vagus Nerve Stimulation Paired with Tones for the Treatment of Tinnitus: A Prospective Randomized Double-blind Controlled Pilot Study in Humans. *Scientific Report*, *7*, e11960.
28. **Vanneste, S.**, Ost, J., & De Ridder, D. (2017). Resting state electrical brain activity and connectivity in fibromyalgia. *Plos One*. e0178516.

29. **Vanneste, S.**, Martin, J., Rennaker, R. L. & Kilgard, M. (2017). Pairing sound with vagus nerve stimulation modulates cortical synchrony and phase coherence in tinnitus: An exploratory retrospective study. *Scientific Reports*, *7*, e17345.
30. 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.
31. Alsalman, O., Tucker, D. & **Vanneste, S.** (2016). Salivary Stress-Related Responses in Tinnitus: A Preliminary Study in Young Male Subjects with Tinnitus. *Frontiers in Neuroscience*, *10*, 388.
32. 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.
33. De Ridder, D. & **Vanneste, S.** (2016). Burst and Tonic Spinal Cord Stimulation: Different and Common Brain Mechanisms. *Neuromodulation*, *19*, 47-59.
34. De Ridder, D. & **Vanneste, S.** (2016). Does Tonic Spinal Cord Stimulation Really Influence the Medial Pain System? *Neuromodulation*, *19*, 227-228.
35. De Ridder, D. & **Vanneste, S.** (2016). Response: A Systematic Evaluation of Burst Spinal Cord Stimulation for Chronic Back and Limb Pain. *Neuromodulation*, *19*, 785-786.
36. 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*, *13*, 233-242.
37. 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*, *339*, 215-216
38. De Ridder, D., Joos, K. & **Vanneste, S.** (2016). Anterior cingulate implants for tinnitus: report of 2 cases. *Journal of Neurosurgery*, *124*, 893-901.
39. 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.
40. De Ridder, D., Manning, P., & **Vanneste, S.** (2016). Allostasis in health and food addiction. *Scientific report*, *6*, 37126.
41. De Ridder, D., Manning, P., Lioeng, L. L., Ross, S., Sutherland, W., Horwath, C., & **Vanneste, S.** (2016). The brain, obesity and addiction: an EEG neuroimaging study. *Scientific report*, *6*, 34122.
42. 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.
43. De Ridder, D., **Vanneste, S.**, Gillet, G., Manning, P., Glue, P. & Langguth, B. (2016). Psychosurgery reduces uncertainty and increases free will. *Neuromodulation*, *19*, 170-179.
44. 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.
45. Mohan, A., De Ridder, D. & **Vanneste, S.** (2016). Emerging hubs in phantom perception connectomics, *NeuroImage: Clinical*, *11*, 181-194.
46. Mohan, A., De Ridder, D. & **Vanneste, S.** (2016). Graph theoretical analysis of brain connectivity in phantom sound perception. *Scientific Reports*, *6*, 19683.
47. 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.
48. Plazier, M., Van Camp, T., Menovsky, T., Ost, J., De Ridder, D. & **Vanneste, S.** (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.
49. 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*, *13*, 1-14.
50. Van Dijk, P & **Vanneste, S.** (2016). Neuroimaging WG3. Neuroimaging as a window on the heterogeneity of tinnitus. *ENT & Audiology News*, *1*, 73-74.
51. **Vanneste, S.** & De Ridder, D. (2016). Deafferentation-based pathophysiological differences in phantom sound: Tinnitus with and without hearing loss. *Neuroimage*, *129*, 80-94.
52. **Vanneste, S.**, Faber, M., Langguth, B. & De Ridder, D. (2016). The neural correlates of cognitive dysfunction in phantom sounds. *Brain Research*, *1642*, 170-179.

53. Yoo, H. B., De Ridder, D. & **Vanneste S.** (2016). The Importance of Aging in Gray Matter Changes Within Tinnitus Patients Shown in Cortical Thickness, Surface Area and Volume. *Brain Topography*, 29, 885-896.
54. Yoo, H. B., De Ridder, D. & **Vanneste S.** (2016). White matter changes in tinnitus: is it all age and hearing loss? *Brain connectivity*, 6, 84-93.
55. 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.
56. De Ridder, D. & **Vanneste, S.** (2015). Multitarget surgical neuromodulation: Combined C2 and auditory cortex implantation for tinnitus. *Neuroscience letters*, 591, 202-206.
57. De Ridder, D. & **Vanneste, S.**, Langguth, B. & Llinas R. (2015). Thalamocortical dysrhythmia: a theoretical update in tinnitus? *Frontiers in Neuroscience*, 6, 124-130.
58. De Ridder, D., Congedo, M. & Vanneste, S. (2015). The neural correlates of subjectively perceived and passively matched loudness perception in auditory phantom perception. *Brain & Behavior*, 5, e00331.
59. 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.
60. 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*, 31, 433-437.
61. 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*, 18, 13-17.
62. 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*, 26, 595-597.
63. 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.
64. Elgoyhen, A.B., De Ridder, D., Langguth, B. & **Vanneste, S.** (2015). Tinnitus: perspectives from human neuroimaging. *Nature Reviews Neuroscience*, 10, 632-642.
65. Focquaert, F. & **Vanneste, S.** (2015). Autism spectrum traits in normal individuals: a VBM analysis. *Frontiers in Humans Neuroscience*, 9, 264-270.
66. Joos, K, De Ridder, D. & **Vanneste, S.** (2015). The deferential effect of low versus high random noise stimulation. *Experimental brain research*, 5, 1433-1440.
67. 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.
68. 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.
69. 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.
70. 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.
71. Plazier, M., Ost, J., Stassijns, G., De Ridder, D. & **Vanneste, S.** (2015). Pain characteristics in fibromyalgia: understanding the multiple dimensions of pain. *Clinical Rheumatology*, 34, 775-783.
72. 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*, 18, 623-629.
73. Song, J. J., **Vanneste, S.** & De Ridder, D. (2015). Dysfunctional noise canceling of the rostral anterior cingulate cortex in tinnitus. *Plos One*, 10, e0123538.
74. Song, J. J., **Vanneste, S.**, Hyun Park, J., Van de Heyning, P. & De Ridder, D. (2015). The role of the salience network in processing lexical and nonlexical stimuli in cochlear implant users: an ALE meta-analysis of PET studies. *Human Brain mapping*, 36, 1982-1994.
75. 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*, 18, 9-12.

76. **Vanneste, S.** & De Ridder, D. (2015). Stress-Related Functional Connectivity Changes between Auditory Cortex and Cingulate in Tinnitus. *Brain Connectivity*, 6, 371-383.
77. **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.
78. 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*, e436713.
79. 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.
80. De Ridder, D. & **Vanneste, S.** (2014). Auditory cortex stimulation might be efficacious in a subgroup of tinnitus patients. *Brain Stimulation*, 7, 917-918.
81. De Ridder, D. & **Vanneste, S.** (2014). Targeting the parahippocampal area by auditory cortex stimulation in tinnitus. *Brain Stimulation*, 7, 709-717.
82. De Ridder, D., Joos, K. & **Vanneste, S.** (2014). The enigma of the tinnitus-free dream-state in a Bayesian world. *Neural Plasticity*, e612147.
83. 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.
84. 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.
85. De Ridder, D., **Vanneste, S.**, & Freeman, W. (2014). The Bayesian brain: phantom percepts resolve sensory uncertainty. *Neuroscience & Biobehavioral Reviews*, 44, 4-15.
86. 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.
87. 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.
88. 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.
89. Joos, K., De Ridder, D., Boey, R. & **Vanneste S.** (2014). Functional connectivity changes in adults with developmental stuttering: a preliminary study using quantitative electro-encephalography. *Frontiers in Human Neuroscience*, e00783.
90. 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*, e930860.
91. 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.
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Reports

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Diagnostic Instruments

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Presentations

Invited talks

1. **Vanneste, S.** (2018). Pathophysiological differences in phantom sound: subtypes in tinnitus. 10th International Tinnitus Research Initiative Conference, 6th – 18th March 2018, Regensburg, Germany.
2. **Vanneste, S.** (2017). Top-down and bottom-up neuromodulation approaches to improve memory encoding and retrieval. December 7, Trinity College, Ireland.
3. **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.
4. **Vanneste, S.** (2017). Driving brain plasticity in a targeted and selective way: Insights from Research on Tinnitus and Fibromyalgia. January 24, Trinity College, Ireland
5. **Vanneste, S.** (2015). Commonalities between fibromyalgia and tinnitus. Central Gating of Tinnitus and Chronic Pain, University of Munich, September 6th, Germany.
6. **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.
7. **Vanneste, S.** (2015). Log-dynamics in phantom sounds: Identify tinnitus subtypes and their neurobiological underpinnings. Regensburg. April 29th. Germany

8. **Vanneste S.** (2015). Fibromyalgia an enigma? Invited talk at Center for Longevity, The University of Texas at Dallas, April 6th, USA.
9. **Vanneste S.** (2015). Tuning the Brain: Neuromodulation as a Possible Panacea for treating non-pulsatile tinnitus? Invited Talk at Otolaryngology-2015, March 20th, Dubai
10. **Vanneste, S.** (2014). How brain networks are involved in tinnitus. Invited talk at University Medical Hospital Groningen, November 28th, The Netherlands.
11. Vanneste, S. (2014). Tinnitus treatment: an overview. Invited talk at St-Augustinus Hospital, November 26th, Belgium.
12. **Vanneste, S.** (2014). Robbed of silence by tinnitus: How the brain is involved in tinnitus? Invited talk Texas Audiology Association, October 24th, USA.
13. **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
14. **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
15. **Vanneste, S.** (2013). Flash: series: Why does the brain generate tinnitus? Invited talk at The University of Texas at Dallas, September 27th, USA
16. **Vanneste, S.** (2013). Neuromodulation as a tool to understand Tinnitus. Invited talk at The University of Auckland, June 19th, New Zealand.
17. **Vanneste S.** (2013). Forensische neurobiologische behandeling. Symposium: Schuld onder de Schedel, May 31th, Ghent University, Belgium.
18. **Vanneste, S.** (2013). The neural correlates of tinnitus. Invited talk at the University of Buenos Aires, February 4th, Argentina.
19. **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.
20. **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.
21. **Vanneste, S.** (2012). The neuroscience of tinnitus. September 7th. Invited talk the Harvard Medical School, Cambridge, USA.

Conferences

1. 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, 6th – 18th March 2018, Regensburg, Germany.
2. 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, 6th – 18th March 2018, Regensburg, Germany.
3. 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. 11-14 January, 2018, Las Vegas, USA.
4. 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.
5. 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. 22nd-24th May, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland.
6. 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. 22nd-24th May, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland.
7. Shekhawat, G.S. & **Vanneste, S.**(2017). Optimization of Transcranial Direct Current Stimulation for Tinnitus Management. 22nd-24th May, XII International Tinnitus Seminar & WTC 1st World Tinnitus Congress, Warsaw, Poland.

8. 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.
9. 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.
10. Song, J.J., **Vanneste, S.**, De Ridder, D. & Jang, J.H. (2016). Improvement t 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.
11. 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, AnnArbor, Michigan.
12. Tyler, R. & **Vanneste, S.** (2015). Vagus Nerve Stimulation paired with tones for the treatment of tinnitus. *Audiology Now*, March 25–28, San Antonio, TX.
13. 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.
14. **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.
15. **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.
16. De Ridder, D., Congedo, M., & **Vanneste, S.** (2014). Parahippocampal-auditory cortex communication in tinnitus. March 13-15, TRI 2014, Auckland New-Zealand.
17. **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.
18. 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.
19. De Ridder, D. & **Vanneste, S.** (2013). Similarities between tinnitus and pain. Neurological foundation, University of Auckland, June 4, Auckland, New Zealand.
20. 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.
21. De Ridder, D. & **Vanneste, S.** (2013). Non-invasive neuromodulation: Merely Investigational or treatment tool. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
22. De Ridder, D. & **Vanneste, S.** (2013). Phantom perceptions. New Zealand Audiological Society, June, 23-26, Dunedin, New Zealand.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.

29. 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.
30. 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.
31. **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.
32. 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.
33. 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.
34. **Vanneste, S.** (2013). Using TMS as a diagnostic and treatment tool for tinnitus: different targets. Meeting Mica group, February 22nd, Antwerp, Belgium.
35. 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
36. 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
37. **Vanneste, S.** (2013). Multisensory stimulation for the treatment of tinnitus. Meeting Sins group, January 29th, Delft, The Netherlands.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. **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.
44. De Ridder, D., & **Vanneste, S.** (2011). Frontal & Parietal TMS. X International Tinnitus Seminar. March 16 to 19, Florianopolis – Santa Catarina, Brazil.
45. 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.
46. 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.
47. **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.
48. **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
49. **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.

50. **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
51. **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.
52. **Vanneste, S.** (2010). Acute versus chronic tinnitus. Neurostimulation workgroup, October 29, Université Paris-Descartes, Faculté de Médecine, Hôpital Européen Georges Pompidou Paris, France.
53. **Vanneste, S.** (2010). Filling the Gap. December 8, 2010. University of Regensburg, Regensburg, Germany.
54. **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.
55. **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.
56. **Vanneste, S.** (2009). Burst TMS for tinnitus. Neurostimulation workgroup, April 21, University Antwerp, Antwerp, Belgium.
57. **Vanneste, S.** (2009). International neuromodulation society 9th world congress 11-15 September, Seoul, South Korea. Talk: Transcranial direct current stimulation: a Preliminary study 4.
58. **Vanneste, S.** (2009). The neural correlates of distress. Neurostimulation workgroup, April 20, University Antwerp, Antwerp, Belgium.
59. **Vanneste, S.** (2009). The neural correlates of tinnitus. Opening TRI-center, April 22, University Hospital, Antwerp, Antwerp, Belgium
60. **Vanneste, S.** (2009). Workshop Centre for intellectual property (CIR) KU Leuven, Leuven, February 20.
61. **Vanneste, S.** (2009). Workshop on Cheater/Cooperator Detection, Sapporo, Hokkaido University, March 29-30 2009. Invited Speaker.
62. Depoorter, B., & **Vanneste, S.** (2006). Norms and Enforcement: The Case against Copyright Litigation. Workshop on Law and Economics. University of Hamburg.
63. 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.
64. **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.
65. **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.
66. **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.
67. **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.
68. Dare-Mattiaci, G., **Vanneste, S.**, and Van Hiel, A. (2005). Anticommons and the most-favored-nation Clause. Erasmus Law and Economics Conference, Ghent University.
69. 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.
70. 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.
71. Depoorter, B. & **Vanneste, S.** (2004). *Copyright Enforcement: Gentle Nudges or Hard Shaves. Casle working paper session, Ghent University.*
72. Depoorter, B. & **Vanneste, S.** (2004). *Copyright Enforcement: Gentle Nudges or Hard Shaves. Works in Progress Intellectual Property Colloquium, Boston College.*
73. Depoorter, B., & **Vanneste, S.** (2004). Copyright Litigation Impossibility. George Mason Law School, Arlington, VA.

74. 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.
75. **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*
76. **Vanneste, S.**, Van Hiel, A., Parisi, F., Depoorter, B., & Mervielde, I. (2004). From "tragedy" to "disaster": Welfare effects of commons and anticommens dilemmas. *3rd Tilburg Symposium on Psychology and Economics: Games and Decisions*, University of Tilburg.
77. **Vanneste, S.** & Depoorter, B. (2003). Putting Humpty Dumpty back together: experimental verification of the anticommens tragedy. *Casle working paper session, Gent 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.

Research Support

Current

- Title: Postdoctoral Fellowship. Supporting Agency: Private donation. Performance period: 9/1/2016 – 8/31/2018. (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) \$159,000
- 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: UTSW ENT developmental research grant 2013 - ... (PI) yearly \$35,000
- Title: Targeted Neuroplasticity Training to Accelerate Complex Skill Learning DARPA. Performance Period: 01/01/2017 – 12/31/2020 (Co-PI) \$ 5,899,042
- Title: Treatment of memory Disorders in Gulf War Illness with High Definition Transcranial Direct Cortical Stimulation Supporting Agency: CDMRP/GWIRP. Performance Period: 9/1/2016 – 8/31/2019 (Co-PI) \$ 950,899
- Title: Multi-site confirmatory efficacy treatment trial of combat-related PTSD Supporting Agency: Department of the Army. Performance Period: 9/1/2017 – 8/31/2022 (Co-PI): \$6,964,372
- Title: Callier Care Fund for Tinnitus Patients Supporting Agency: The Dallas Foundation: Mary M. Jalonick Advised Fund Period: 1/1/2018 – 12/31/2018 (PI)