

Publications (H-index: 64)

International peer-reviewed articles

1. Adhia, D., Ramakrishanan, M., Matthew, J., Smith, M. **Vanneste, S.** & De Ridder, D. (in press). Exploring electroencephalographic infraslow neurofeedback treatment for chronic low back pain: A pilot, safety and feasibility randomized controlled trial. *Scientific report*.
2. Arulchelvan, E. & **Vanneste, S.** (in press). Novel neurostimulation approaches targeting the hippocampus to improve episodic memory: A review. *Brain Research*.
3. Berglund-Barraza A., Carey, S., Hart J., **Vanneste, S.** & Evans J. L. (in press). Modulating phonological working memory with anodal High-Definition transcranial direct current stimulation (HD-tDCS) to the left anterior portion of the supplementary motor area (preSMA). *Journal of Speech Language and Hearing Research*.
4. Byczynski, G. & **Vanneste, S.** (in press). Modulating motor learning with brain stimulation: stage-specific perspectives for transcranial and transcutaneous delivery. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*.
5. De Ridder, D., Friston, K., Sedley, W. & **Vanneste, S.** (in press). A parahippocampal-sensory Bayesian vicious circle generates pain or tinnitus. *Brain Communication*.
6. Ehrenberg, J. A., Kelberman, M.A., Liu, K. Y., Dahl, M. J., Weinshenker, D., Falgàs, N., Dutt, S., Mather, M., Betts, M. J., Winer, J. R., Teipel, S., Weigand, A. J., Eschenko, O., Hämmerer, D., Leiman, M., Counts, S. E., Shine, J. M., Robertson, I., Levey, A. I., Lancini, E., Ludwig, M., Son, G., Schneider, C., Van Egroo, M., Liguori, C., Wang, Q., Vazey, E. M., Rodriguez-Porcel, F., Haag, L., Bondi, M., **Vanneste, S.**, Freeze, W. M., Yi, Y. J., Maldinov, M., Gatchel, J., Satpati, A., Babiloni, C., Kremen, W. S., Robert Howard, R., Jacobs, H. I. L., Grinberg, L. T. (in press). Priorities for research on neuromodulatory subcortical systems in Alzheimer's disease: Position paper from the NSS PIA of ISTAART. *Alzheimer & Dementia*.
7. Grootjans Y., Byczynski, G. & **Vanneste, S.** (in press). The use of non-invasive brain stimulation in auditory perceptual learning: A review. *Hearing Research*.
8. Langguth, B., Kleinjung, T., Schlee, W., **Vanneste, S.** & De Ridder, D. (in press). Tinnitus guidelines and their evidence base: current situation and considerations for future directions. *Journal of Clinical Medicine*.
9. Luckey, A. M., Adcock, K. & **Vanneste, S.** (in press). Peripheral nerve stimulation: A neuromodulation-based approach. *Neuroscience & Biobehavioral Reviews*.
10. Luckey, A. M., McLeod, S. L., Huang, Y., Mohan, A. & **Vanneste, S.** (in press). Making memories last: The peripheral effect of direct current stimulation on strengthening memories. *Elife*.
11. **Vanneste, S.** & De Ridder, D. (in press). BurstDR spinal cord stimulation rebalances pain input and pain suppression in the brain in chronic neuropathic pain. *Brain Stimulation*.
12. Adcock, K. & **Vanneste, S.** (2022). Neuroinflammation in Tinnitus. *Current Otorhinolaryngology Reports*, 10, 322-328.

13. Adcock, K., Robertson, I, Lawlor, B. & **Vanneste, S.** (2022). Diminishing accelerated long-term forgetting in mild cognitive impairment: study protocol for a prospective, double-blind, placebo-controlled, randomized controlled trial. *Contemporary Clinical Trials Communications*, 30, 100989.
14. Adhia, D. B., Mani, R., Reynolds, J., Hall, M., **Vanneste, S.**, De Ridder, D. (2022). High-definition transcranial infraslow pink noise stimulation can reduce functional and effective connectivity between targeted cortical areas in individuals with chronic low back pain: A pilot randomized placebo-controlled study. *Neuromodulation*, 22, 1225-1229.
15. Adhia, D. B., Mani, R., Reynolds, J., **Vanneste, S.**, De Ridder, D. (2022). Safety and feasibility of high-definition transcranial infraslow pink noise stimulation in chronic low back pain: A protocol for pilot randomised controlled trial. *BMJ Open*, 12, e056842.
16. Adhia, D. B., Mani, R., Turner, P., **Vanneste, S.**, De Ridder, D. (2022). Infraslow neurofeedback training alters effective connectivity in individuals with chronic low back pain: A secondary analysis of a pilot randomized placebo-controlled study. *Brain Sciences*, 11, 1514.
17. Brunoni, A. R., Ekhtiari, H., Antal, A., Auvichayapat, P., Baeken, C., Benseñor, I. M., Bikson, M., Boggio, P., Brighina, F., Brunelin, J., Carvalho, S., Caumo, W., Ciechanski, P., Charvet, V., Clark, V. Datta, A., Deng, Z. D., De Raedt, R., De Ridder, D., Fitzgerald, P. B., Floel, A., Frohlich, F., George, M. Ghobadi-Azbari, P., Goerigk, S., Hamilton, R. H., Haverzadeh, S. J., Hoy, K., Kadosh, R. C., Kidgell, D. J., Khojasteh, A., Laureys, S., Lavidor, M., Leite, J., Lisanby, S. H., Loo, C., Martin, D. M., Miniussi, C., Mondino, M., Monte-Silva, K., Morales-Quezada, L., Nitsche, M. A., Okano, A. H., Oliveira, C. S., Onarheim, B.1, Padberg, F., Nakamura-Palacios, E. M., Palm, U., Paulus, W., Plewnia, C., Razza, R. T., Rehn, E., Schellhorn, K., Simis, M., Suen, P., Thibaut, A., Valiengo, L. C. L., Vanderhasselt, M. A. **Vanneste, S.**, Venkatasubramanian, G., Violante, I. R., Wexler, A., Woods, A. Zare-Bidoky, M., & Fregni, F. (2022). Digitizing Portable Transcranial Electric Stimulation Clinical Trials: Scoping Review, Process Mapping, and Recommendations from a Delphi Panel. *Clinical Neurophysiology*, 143, 154-165.
18. Chiang, H. S., Motes, M., Kraut, M., **Vanneste, S.** & Hart, J. (2022). High-Definition transcranial Direct Current Stimulation modulates theta response during a Go-NoGo task in traumatic brain injury. *Clinical Neurophysiology*, 143, 34-47.
19. Chiang, H. S., Shakal, S. Strain, J. F., Womack, K., Kraut, M., **Vanneste, S.**, Hart, J. Jr. (2022). Reversal of unilateral hand movement dysfunction by High-Definition transcranial Direct Current Stimulation in a patient with chronic traumatic brain injury. *Brain Stimulation*, 15, 283-285.
20. Conlon, B., Hamilton, C., Meade, E., Leong, S. L., O'Connor, C., Langguth, B., **Vanneste, S.**, Hall, D. A., Hughes, S., Lim, H. H. (2022) Bimodal neuromodulation for tinnitus treatment: Adjusting stimulus features over time achieves greater improvements in symptoms in a large randomized clinical study. *Scientific Reports*, 12, 10845.
21. De Ridder, D., **Vanneste, S.**, Smith, M. & Adhia, D. (2022). Pain and the triple network model. *Frontiers in Neurology*, 13, 1-13.

22. De Ridder, D., **Vanneste, S.**, Song, J. J. & Divya (2022). Tinnitus and the triple network model: a perspective. *Clinical & Experimental Otorhinolaryngology*, 3, 205-212.
23. Lee, S. J., Park, J., Lee, S. Y., Koo, J. W., **Vanneste, S.**, De Ridder, D., Lim, S & Song, J. J. (2022). Triple Network Activation Causes Tinnitus in Patients with Sudden Sensorineural Hearing Loss: A Model-based Volume-Entropy Analysis. *Frontiers in Neuroscience*, 16, 1028776.
24. Luckey, A. M., McLeod, S. L., Mohan, A. & Vanneste, S. (2022). Potential Role for Peripheral Nerve Stimulation on Learning and Long-Term Memory: A Comparison of Alternating and Direct Current Stimulations. *Brain Stimulation*, 15, 536-545.
25. Mohan, A., Leong, S. L., De Ridder, D. & **Vanneste, S.** (2022). Symptom dimensions to address heterogeneity in tinnitus. *Neuroscience & Biobehavioural reviews*, 134, 1-12.
26. Mohan, A., Luckey, A., Weisz, N. & **Vanneste, S.** (2022). Predisposition to domain-wide maladaptive changes in predictive coding in auditory phantom perception. *Neuroimage*, 248, 1-10.
27. Piarulli, A.*, **Vanneste, S.***, Nemirovsky, I., Kandeean, S., Maudoux, A., Gemignani, A. & De Ridder, D., Soddu, A.+. (2022). Tinnitus and Distress: An Electroencephalography Classification Study. *Brain Communications*.
28. Raymaekers, V., Bamps, S., Donkersloot, P., Duyvendak, W., Put, E., Roosen, G., Vanvolsem, S., Wissels, S., **Vanneste, S.**, De Ridder, D. & Plazier, M. (2022). Patient Profiling in Patients with Sciatica Due to Lumbar Disc Herniation. *Clinical Neurology and Neurosurgery*, 217, 107246.
29. Ahmed, S., Mohan, A., Yoo, H. B., To, W. T., Kovacs, S., Sunaert, S., De Ridder, D. & **Vanneste, S.** (2021). Structural correlates of the audiological and emotional components of chronic tinnitus. *Progress in Brain Research*, 262, 487-509.
30. Chiang, H. S., Motes, M., O'Hair, R, **Vanneste, S.**, Kraut, M. & Hart, J. (2021). Baseline frontal lobe function predicts response to high-definition transcranial direct current stimulation targeting the superior medial frontal cortex as measured by verbal fluency and event-related potentials in chronic traumatic brain injury. *Neuroscience Letters*, 764, 1-7.
31. Chiang, H. S., Shakal, S., **Vanneste, S.**, Kraut, M. & Hart, J. (2021). Case Report: Reversing limb apraxia and improving verbal retrieval deficits with High-Definition transcranial Direct Current Stimulation targeting the pre-Supplementary Motor Area in a patient with chronic traumatic brain injury. *Frontiers in Neurology*, 12, 1-8.
32. Conlon, B., Langguth, B., Hamilton, C., Hughes, S., Meade, E., O'Connor, C., Schecklmann, M., Hall, D. A., **Vanneste, S.**, Leong, S. L., Subramanian, T., D'Arcy, S. & Lim, H. H. (2021). Bimodal neuromodulation combining sound and tongue stimulation reduces tinnitus symptoms in a large randomized clinical study. *Science Translational Medicine*, eletter response letter.
33. De Ridder, D., Adhia, D. & **Vanneste, S.** (2021). The anatomy of pain and suffering in the brain and its clinical implications. *Neuroscience & Biobehavioral Reviews*, 130, 125-146.
34. De Ridder, D., Langguth, B. & **Vanneste, S.** (2021). Vagus Nerve Stimulation for Tinnitus: a perspective. *Progress in Brain Research*, 262, 451-467.

35. De Ridder, D., Maxiazyk, J., D. & **Vanneste, S.** (2021). The future of neuromodulation: smart neuromodulation. *Expert in Medical Devices*, 18, 307-317.
36. De Ridder, D., Schlee, W. **Vanneste, S.**, Londero, A., Norena, A., Weisz, N., Kleinjung, T., Shekhawat, G. S., Elgoyhen, A. B., Song, J. J., Andersson, G., Azevedo, A. A., Baguley, D. M., Biesinger, E., Binetti, C. , Del Bo, L. Cederroth, C. R., Cima, R., van Dijk, P., Eggermont, J. J., Figueiredo, R., Fuller, T. E., Gallus, S., Gilles, A., Hall, D. A. Van de Heyning, P., Hoare, D. J., Khedr, E. M., Kikidis, D., Kleinstäuber, M., Kreuzer, P. M., Lai, J. T., Lainez, J. M., Landgrebe, M., Po-Hung Li, L., Lim, H. H., Liu, T. C., Lopez-Escamez, J. A., Mazurek, B., Moller, A. R., Neff, P., Pantev, C., Park, S. N. , Piccirillo, J. F., Poepl, T. B., Rauschecker, J. P., Salvi, R., Sanchez, T., Schecklmann, M., *Schiller*, A., Tyler, R., Vielsmeier, Vlaeyen, J. W. S., Zhang, J., Zheng, Y., de Nora, M. & Langguth, B. (2021). Tinnitus and Tinnitus Disorder: Theoretical and Operational Definitions. An international multidisciplinary proposal. *Progress in Brain Research*, 260, 1-25.
37. De Ridder, D. & **Vanneste, S.** (2021S). The Bayesian brain in imbalance: medial, lateral and descending pathways in tinnitus and pain – A perspective. *Progress in Brain Research*, 262, 309-334.
38. Huang, Y., Mohan, A., McLeod, Luckey, A., Hart, J. jr., & **Vanneste, S.** (2021). Polarity-specific high-definition transcranial direct current stimulation of the anterior and posterior default mode network improves remote memory retrieval. *Brain Stimulation*, 14, 1005-1014.
39. Klein, H., S., **Vanneste, S.** & Pinkham, A. (2021). The limited effect of neural stimulation on visual attention and social cognition in individuals with schizophrenia. *Neuropsychologia*, 157, 107880.
40. Langguth, B. Kleinjung T., De Ridder, D., Vanneste, S. & Schlee, W. (2021). Preference: An Interdisciplinary Approach Towards Individualized Treatment: Results from the European Graduate School for Interdisciplinary Tinnitus Research. *Progress in Brain Research*, 263, xix-xxii.
41. Langguth, Kleinjung, T. De Ridder, D. Schlee, W., & Vanneste, S. (2021). Preference: An Interdisciplinary Approach Towards Individualized Treatment: From Heterogeneity to Personalized Medicine. *Progress in Brain Research.*, 262, xxvii-xxxi.
42. Lee, S.-Y., Chang, M., Kwon, B., Choi, B. Y., Koo, J.-W., Moon, T., **Vanneste, S.** & Song, J.J. (2021). Is the posterior cingulate cortex an on-off switch for tinnitus? A comparison between hearing loss subjects with and without tinnitus. *Hearing Research*, 411, 1-11.
43. Leong, S.L., De Ridder, D., Deer, T. & **Vanneste, S.** (2021). Potential therapeutic effect of low amplitude burst spinal cord stimulation on pain. *Neuromodulation*, 24, 574-580.
44. Luckey, A. M., Robertson, I. H., Lawlor, B., Mohan, A. & **Vanneste, S.** (2021). Sex Differences in Locus Coeruleus: A Heuristic Approach That May Explain the Increased Risk of Alzheimer's Disease in Females. *Journal of Alzheimer's Disease*, 83, 502-522.
45. Schlee W., Langguth, B., Kleinjung, T., Vanneste, S. & De Ridder, D. (2021). Preference: An Interdisciplinary Approach Towards Individualized Treatment: Towards understanding the complexity of tinnitus. *Progress in Brain Research*, 260, xxxv-xlii.

46. Song, J. J., Park, J., Koo, J.W., Lee, S.-Y., **Vanneste, S.**, De Ridder, D., Hong, S., Lim, S. (2021). The balance between Bayesian inference and default mode determines the generation of tinnitus from decreased auditory input: A volume entropy-based. *Human Brain Mapping*, 42, 4059-4073.
47. Springfield, C., Isa, R. I., Bass, E. E., **Vanneste, S.** & Pinkham, A. E. (in press). Preliminary Evidence for the Efficacy of Transcranial Direct Current Stimulation to the Ventrolateral Prefrontal Cortex for Reducing Subclinical Paranoid Ideation: Preliminary Efficacy of tDCS to Reduce Paranoia. *British Journal of Clinical Psychology*.
48. Stoeckl, T., **Vanneste, S.**, Langguth, B., Schlee, B., Mielke, S., De Ridder, D. (in press). Hypermirroring: a novel empathy disorder? *Heliyon*.
49. To, W. T., Song, J. J., Mohan, A., De Ridder, D. & **Vanneste, S.** (2021) Thalamocortical dysrhythmia underpins the log-dynamics in phantom sounds. *Progress in Brain Research*, 262, 511-526.
50. **Vanneste, S.** & De Ridder, D. (2021). Chronic pain as a brain imbalance between pain input and pain suppression. *Brain Communication*, 3, 1-13.
51. **Vanneste, S.**, Luckey, A., S. L. McLeod, Robertson I. H. & To, W. T. (2021). Impaired posterior cingulate cortex–parahippocampus connectivity is associated with episodic memory retrieval problems in amnesic mild cognitive impairment. *European Journal of Neuroscience*, 53, 3125-3141.
52. **Vanneste, S.**, Mohan, A., De Ridder, D. & To, W. T. (2021). The BDNF Val⁶⁶Met polymorphism regulates vulnerability to chronic stress and phantom perception. *Progress in Brain Research*, 260, 301-326.
53. Yoo, H. B., Mohan, A., De Ridder, D. & **Vanneste, S.** (2021). Paradoxical Relationship between Distress and Functional Network Topology in Phantom Sound Perception. *Progress in Brain Research*, 260, 367-395.
54. Conlon, B., Langguth, B., Hamilton, C., Hughes, S., Meade, E., O'Connor, C., Schecklmann, M., Hall, D. A., **Vanneste, S.**, Leong, S. L., Subramanian, T., D'Arcy, S. & Lim, H. H. (2020). Bimodal neuromodulation combining sound and tongue stimulation reduces tinnitus symptoms in a large randomized clinical study. *Science Translational Medicine*, 12, 1-12.
55. De La Rosa, B., Spence, J., Motes, M., To, W., **Vanneste, S.**, Hart Jr., J. & Kraut, M. A. (2020). Identification of selection and inhibition components in a go/no go task from EEG spectra using Machine learning model. *Brain & Behavior*, 12, 1-15.
56. De Ridder, D., Vancamp, T., Falowski, S. & **Vanneste, S.** (in press). All bursts are equal, but some are more equal: true burst stimulation versus clustered tonic stimulation. *Expert Review in Medical Devices*, 4, 289-295.
57. De Ridder, D. & **Vanneste, S.** (2020). Confusion about “burst stimulation”. *Neuromodulation*, 23, 140-141.
58. Han, J. J., De Ridder, D., **Vanneste, S.** Chen, Y-C, Koo, J. W., & Song, J. J. (2020). Pre-treatment ongoing cortical oscillatory activity predicts improvement of tinnitus after partial peripheral reafferentation with hearing aids. *Frontiers in Neuroscience*, 14, 410.

59. Leong, S. L., Robertson, I. H., Lawlor, B. & **Vanneste, S.** (2020). Associations between hypertension, treatment, and cognitive function in the Irish Longitudinal Study on Ageing. *Journal of Clinical Medicine*, *9*, 1-18.
60. Leong, S. L., Tchen, S., Robertson, I., Alsalman, O., To, W. T. & **Vanneste, S.** (2020). The interruptive effect of tinnitus-related-distress on attention. *Scientific Report*, *10*, 11911.
61. Leong, S.L., Glue, P., Manning, P., **Vanneste, S.**, Lim, J. & De Ridder, D. Anterior cingulate cortex implants for alcohol addiction: a feasibility study. *Neurotherapeutics*, *3*, 1287-1299.
62. Luckey, A. M, McLeod, L. S., Robertson, I. H., To, W. T., & **Vanneste, S.** (2020). Greater occipital nerve stimulation boosts associative memory in older individuals. *Neurorehabilitation & Neural Repair*, *11*, 1020-1029.
63. Mohan, A., Bhamoo, N., Riquelme, J. S., Long, S., Norena, A. & **Vanneste, S.** (2020). Investigating functional changes in the brain to intermittently induced auditory illusions and its relevance to chronic tinnitus. *Human Brain Mapping*, *41*, 1819-1832.
64. Mohan, A., Davidson, C., De Ridder, D. & **Vanneste, S.** (2020). Effective Connectivity Analysis of Inter- and Intra-Modular Hubs in Phantom Sound Perception – Identifying the Core Distress Network. *Brain Imaging and Behavior*, *14*, 289-307.
65. Motes, M., Spence, J., Yeatman, K., Jones, P., Luttrell, M., O'Hair, R., Shakal, S. To, W. T., **Vanneste, S.**, Kraut, M., H. & Hart, J. (2020). High-Definition Transcranial Direct Current Stimulation to Improve of Verbal Retrieval Deficits in Chronic Traumatic Brain Injury. *Journal of Neurotrauma*, *37*, 170-177.
66. **Vanneste, S.**, Mohan, A., Yoo, H. B., Huang, Y. Luckey, A. M., Mcleod, L., Tabit, M. N., Souza, R., McIntyre, C., Chapman, S., Robertson, I. H. & To, W. T. (2020) The peripheral effect of direct current stimulation on brain circuits involving memory. *Science Advances*, *45*, eaax9538
67. Yearwood, T., De Rider, Dirk, Yoo, H. B, Falowski, S., Venkatesan, L., To, W. T. & **Vanneste, S.** (2020). Comparison of Neural Activity in Chronic Pain Patients during Tonic and Burst Spinal Cord Stimulation using fluorodeoxyglucose Positron Emission Tomography. *Neuromodulation*, *23*, 56-63.
68. Borland, M., Vrana, W. A., Moreno, N. A., Fogarty, E., Buell, E., **Vanneste, S.**, Hays, S. A., Kilgard, M. & Engineer, C. T. (2019). Pairing vagus nerve stimulation with tones drives plasticity across the auditory pathway. *Journal of Neurophysiology*, *122*, 659-671.
69. Brown, P., **Relish Consortium** & Zhou, Y. (2019). Large expert-curated database for benchmarking document similarity detection in biomedical literature search. *Database: The Journal of Biological Databases and Curation*, 1-66.
70. Cederroth, C. R., Gallus, S., Hall, D. A., Kleinjung, T., Langguth, B., Maruotti, A., Meyer, M, Norena, A., Probs, T., Pryss, R., Searchfield, G., Shekhawat, G., Spiliopoulou, M., **Vanneste, S.** & Schlee, W. (2019). Towards an Understanding of Tinnitus Heterogeneity. *Frontiers in Aging Neuroscience*, *11*, 1-7.
71. Colon, B. Hamilton, C., Hughes, S. Meade, E., Hall, D. A., **Vanneste, S.**, Langguth, B. & Lim, H. (2019). Non-invasive bi-modal neuromodulation for the treatment of tinnitus: a study protocol for a

- second large-scale double-blind randomised clinical trial to optimise stimulation parameters. *JMIR Research Protocols*, 8, e13176.
72. Das, N., Spence, J. S., Aslan, S., **Vanneste, S.**, Mudar, R., Rackley, A., Quiceno, M. & Chapman, S. B. (2019). Cognitive Training and Transcranial Direct Current Stimulation in Mild Cognitive Impairment: A Randomized Pilot Trial. *Frontiers Neuroscience*, 13, 1-14.
 73. Huang, Y., Hullfish, J., De Ridder, D. & **Vanneste S.** (2019). Meta-analysis of functional subdivisions within human posteromedial cortex. *Brain Structure and Function*, 224, 435-452.
 74. Hullfish, J., Abenes, I., Yoo, H. B., De Ridder, D. & **Vanneste, S.** (2019). Frontostriatal network dysfunction as a domain-general mechanism underlying phantom perception. *Human Brain Mapping*, 40, 2241-2251.
 75. Hullfish, J., Sedley, W. & **Vanneste, S.** (2019). Prediction and perception: insights for (and from) tinnitus. *Neuroscience & Biobehavioral Reviews*, 102, 1-12.
 76. Kandeepan, A.*, Maudoux, A.*, de Paula, D. R., Zheng, J. Y., Cabay, J. E., Gomez, F., Chronik, B. A., De Ridder, D., **Vanneste, S.*** & Soddu, A.* (in press). Tinnitus distress: a paradoxical attention to the sound? *Journal of Neurology*, 266, 2197-2207.
 77. Lee, S.Y., Rhee, J., Shim, Y J, Kim, Y., Koo J.-W., De Ridder, D., **Vanneste, S.** & Song, J. J. (2019). Changes in the resting-state cortical oscillatory activity 6 months after modified tinnitus retraining therapy. *Frontiers in Neuroscience*, 13, 1-10.
 78. Mani, R., Adhia, D. A., Leong, S. L., **Vanneste, S.** & De Ridder D. (2019). Sedentary behaviour facilitates anti-nociceptive pain modulation profile in middle-aged and older adults with persistent musculoskeletal pain: a cross-sectional investigation. *Pain Reports*, 4, 1-12.
 79. Pinkham, A., Bass, E., Klein, H. & **Vanneste, S.** (2019). Stimulating the brain to improve introspective accuracy in schizophrenia. *Schizophrenia Bulletin*, 45, S185-S186.
 80. Prashad, S., Dedrick, E. S., To, W. T., **Vanneste, S.** & Filbey, F. M. (2019). Testing the role of the posterior cingulate cortex in processing salient stimuli in cannabis users: an rTMS study. *European Journal of Neuroscience*, 50, 2357-2369.
 81. **Vanneste, S.** (2019). Clinical translation of VNS therapy for tinnitus patients. *Brain Stimulation*, 12, 419.
 82. **Vanneste, S.** (2019). Enhancing rehabilitative therapies with vagus and trigeminal nerve stimulation to treat neurological disease: Lessons learned from Tinnitus. *Brain Stimulation*, 12, 410.
 83. **Vanneste, S.**, Alsalman, O. & De Ridder, D. (2019). Top-down and bottom-up regulated auditory phantom perception. *The Journal of Neuroscience*, 39, 364-378.
 84. **Vanneste, S.**, To, W. T. & De Ridder, D. (2019). Tinnitus and neuropathic pain share a common neural substrate in the form of specific brain connectivity and microstate profiles. *Neuropsychopharmacology & Biological Psychiatry*, 88, 388-400.
 85. Ahmed, S., Plazier, M., Ost, J., Stassijns, G., Deleye, S., Ceyssens, S., Dupant, P., Stroobants, S., Staelens, S. De Ridder, D. & **Vanneste S.** (2018). The effect of occipital nerve field stimulation on the

descending pain pathway in patients with fibromyalgia: a water PET and EEG imaging study. *BMC Neurology*, 18, 191-201.

86. 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.
87. Beebe Palumbo, D., Alsalman, O., De Ridder, D., Song J. J. & **Vanneste, S.** (2018). Misophonia and potential underlying mechanisms. *Frontiers in Psychology*, 9, 953-964.
88. 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.
89. 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.
90. 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.
91. 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.
92. Hullfish, J., Abenes, I., Kovacs, S., Sunaert, S., De Ridder, D., **Vanneste, S.** (2018). Functional connectivity analysis of fMRI data collected from human subjects with chronic tinnitus and varying levels of tinnitus-related distress. *Data in Brief*, 21, 779-789.
93. Hullfish, J., Abenes, I., Kovacs, S., Sunaert, S., De Ridder, D., **Vanneste, S.** (2018). Functional brain changes in auditory phantom perception evoked by different stimulus frequencies. *Neuroscience Letters*, 683, 160-167.
94. 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.
95. Leong, S. L., Glue, P. Manning, P., **Vanneste, S.**, Lim, J. & De Ridder, D. (2018). A randomised, double-blind, placebo-controlled parallel trial of closed-loop infraslow brain training in food addiction. *Scientific Reports*, 8, 11659.
96. Mohan, A., Alexandra, S. J., Johnson, C. V., De Ridder, D., & **Vanneste, S.** (2018). Effect of distress on transient network dynamics and topological equilibrium in phantom sound perception. *Progress in Neuropsychopharmacology & Biological Psychiatry*, 84, 79-92.
97. Mohan, A., De Ridder, D., Idiculla, R., Dsouza, C., & **Vanneste, S.** (2018). Distress-dependent temporal binding of regions encoding disorder-specific and disorder-general behavioral manifestations of phantom percepts. *European Journal of Neuroscience*, 48, 1743-1764.

98. Pattyn, T., **Vanneste, S.**, De Ridder, D., Van Rompaey, V., Veltman, D., Van de Heyning, P., Sabbe, B., & Van Den Eede, F. (2018). Differential electrophysiological correlates of panic disorder in non-pulsatile tinnitus. *Journal of Psychosomatic Research*, 109, 57-62.
99. Shekhawat, G. J. & **Vanneste, S.** (2018). High-definition transcranial direct current stimulation of the dorsolateral prefrontal cortex for tinnitus modulation: a preliminary trial. *Journal of Neural Transmission*, 125, 163-171.
100. Shekhawat, G. J. & **Vanneste, S.** (2018). Optimization of Transcranial Direct Current Stimulation of Dorsolateral Prefrontal Cortex: A Non-Linear Dose-Response Effect. *Scientific Reports*, 8311.
101. Stoeckl-Drax, T., **Vanneste, S.**, Langguth, B. Mielke, S., De Ridder, D. (2018). Hypermirroring-a novel empathy disorder or a gift? *International Journal of Psychophysiology* 131, S123.
102. To, W. T., De Ridder, D., Hart, J. Jr., & **Vanneste, S.** (2018). Changing brain networks through non-invasive neuromodulation. *Frontiers in Human Neuroscience*, 12, 128.
103. To, W. T., Eroh, W., Hart, J. & **Vanneste, S.** (2018). Exploring the effects of anodal and cathodal high-definition transcranial direct current stimulation targeting the dorsal anterior cingulate cortex. *Scientific Reports*, 8, 4454.
104. **Vanneste, S.**, Alsalman, O. & De Ridder, D. (2018). COMT and the neurogenetic architecture of hearing loss induced tinnitus. *Hearing research*, 365, 1-15.
105. **Vanneste, S.**, Joos, K., Ost, J. & De Ridder, D. (2018). Influencing connectivity and cross-frequency coupling by real-time source localized neurofeedback of the posterior cingulate cortex reduces tinnitus related distress. *Neurobiology of Stress*, 8, 211-224.
106. **Vanneste, S.**, Song, J. J. & De Ridder, D. (2018). Thalamocortical dysrhythmia detected by machine learning. *Nature communications*, 9, 1-13.
107. Yoo, H. B., de la Concha, E. O., De Ridder, D., Pickut, B., **Vanneste, S.** (2018). The Functional Alterations in Top-Down Attention Streams of Parkinson's disease Measured by Electroencephalogram. *Scientific Reports*, 8, 10609.
108. Yoo, H. B., Ost, J., Joos, W., Van Havenbergh, T., De Ridder, D. & **Vanneste S.** (2018). Adding Prefrontal Transcranial Direct Current Stimulation before Occipital Nerve Stimulation in Fibromyalgia. *The Clinical Journal of Pain*, 34, 421-427.
109. 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.
110. 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.
111. De Ridder, D. & **Vanneste, S.** (2017). State of the Art: Novel Applications for Cortical Stimulation. *Neuromodulation*, 20, 206-214.
112. De Ridder, D., Perera, S. & **Vanneste, S.** (2017). Is 10 kHz stimulation and burst stimulation fundamentally the same? *Neuromodulation*, 20, 650-653.

113. 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.
114. 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.
115. 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.
116. 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.
117. Mohan, A., De Ridder, D. & **Vanneste, S.** (2017). Robustness and dynamicity of functional networks in phantom percept. *Neuroimage*, 146, 171-187.
118. 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.
119. 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.
120. 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.
121. 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.
122. 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.
123. 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.
124. 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.

125. **Vanneste, S.**, Ost, J., & De Ridder, D. (2017). Resting state electrical brain activity and connectivity in fibromyalgia. *Plos One*. e0178516.
126. **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.
127. Alsaman, 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.
128. Alsaman, 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.
129. 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.
130. De Ridder, D. & **Vanneste, S.** (2016). Burst and Tonic Spinal Cord Stimulation: Different and Common Brain Mechanisms. *Neuromodulation*, 19, 47-59.
131. De Ridder, D. & **Vanneste, S.** (2016). Does Tonic Spinal Cord Stimulation Really Influence the Medial Pain System? *Neuromodulation*, 19, 227-228.
132. 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.
133. 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.
134. 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
135. De Ridder, D., Joos, K. & **Vanneste, S.** (2016). Anterior cingulate implants for tinnitus: report of 2 cases. *Journal of Neurosurgery*, 124, 893-901.
136. 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.
137. De Ridder, D., Manning, P., & **Vanneste, S.** (2016). Allostasis in health and food addiction. *Scientific report*, 6, 37126.
138. De Ridder, D., Manning, P., Loeng, L. L., Ross, S., Sutherland, W., Horwath, C., & **Vanneste, S.** (2016). The brain, obesity and addiction: an EEG neuroimaging study. *Scientific report*, 6, 34122.
139. 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.
140. 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.
141. 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.

142. Mohan, A., De Ridder, D. & **Vanneste, S.** (2016). Emerging hubs in phantom perception connectomics, *NeuroImage: Clinical*, 11, 181-194.
143. Mohan, A., De Ridder, D. & **Vanneste, S.** (2016). Graph theoretical analysis of brain connectivity in phantom sound perception. *Scientific Reports*, 6, 19683.
144. 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.
145. Pickut, B. A., Van Hecke, W., Cras, P., Kerckhofs, E., Vanneste, S., Crosiers, D., Marien, P. & Parizel, P. M. (2016). The effect of an eight-week mindfulness training intervention on emotion related brain activation in people with Parkinson's disease. *Movement Disorders*, 31, S419.
146. 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.
147. 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.
148. Van Dijk, P & **Vanneste, S.** (2016). Neuroimaging WG3. Neuroimaging as a window on the heterogeneity of tinnitus. *ENT & Audiology News*, 1, 73-74.
149. **Vanneste, S.** & De Ridder, D. (2016). Deafferentation-based pathophysiological differences in phantom sound: Tinnitus with and without hearing loss. *Neuroimage*, 129, 80-94.
150. **Vanneste, S.**, Faber, M., Langguth, B. & De Ridder, D. (2016). The neural correlates of cognitive dysfunction in phantom sounds. *Brain Research*, 1642, 170-179.
151. 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.
152. 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.
153. 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.
154. De Ridder, D. & **Vanneste, S.** (2015). Multitarget surgical neuromodulation: Combined C2 and auditory cortex implantation for tinnitus. *Neuroscience letters*, 591, 202-206.
155. De Ridder, D. & **Vanneste, S.**, Langguth, B. & Llinas R. (2015). Thalamocortical dysrhythmia: a theoretical update in tinnitus? *Frontiers in Neuroscience*, 6, 124-130.
156. 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.
157. 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.

158. 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.
159. 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.
160. 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.
161. 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.
162. Elgoyhen, A.B., De Ridder, D., Langguth, B. & **Vanneste, S.** (2015). Tinnitus: perspectives from human neuroimaging. *Nature Reviews Neuroscience*, 10, 632-642.
163. Focquaert, F. & **Vanneste, S.** (2015). Autism spectrum traits in normal individuals: a VBM analysis. *Frontiers in Humans Neuroscience*, 9, 264-270.
164. Joos, K, De Ridder, D. & **Vanneste, S.** (2015). The deferential effect of low versus high random noise stimulation. *Experimental brain research*, 5, 1433-1440.
165. 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.
166. 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.
167. 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.
168. 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.
169. 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.
170. 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.
171. Song, J. J., **Vanneste, S.** & De Ridder, D. (2015). Dysfunctional noise canceling of the rostral anterior cingulate cortex in tinnitus. *Plos One*, 10, e0123538.

172. 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.
173. 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.
174. **Vanneste, S.** & De Ridder, D. (2015). Stress-Related Functional Connectivity Changes between Auditory Cortex and Cingulate in Tinnitus. *Brain Connectivity*, 6, 371-383.
175. **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.
176. 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.
177. 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.
178. De Ridder, D. & **Vanneste, S.** (2014). Auditory cortex stimulation might be efficacious in a subgroup of tinnitus patients. *Brain Stimulation*, 7, 917-918.
179. De Ridder, D. & **Vanneste, S.** (2014). Targeting the parahippocampal area by auditory cortex stimulation in tinnitus. *Brain Stimulation*, 7, 709-717.
180. De Ridder, D., Joos, K. & **Vanneste, S.** (2014). The enigma of the tinnitus-free dream-state in a Bayesian world. *Neural Plasticity*, e612147.
181. 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.
182. 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.
183. De Ridder, D., **Vanneste, S.**, & Freeman, W. (2014). The Bayesian brain: phantom percepts resolve sensory uncertainty. *Neuroscience & Biobehavioral Reviews*, 44, 4-15.
184. 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.
185. 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.

186. 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.
187. 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.
188. 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.
189. 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.
190. Plazier, M., De Kelder, 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.
191. 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.
192. Song, J. J., Staelens, S., Deleye, S., Ceysens, 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*, 35, 1780-1784.
193. 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.
194. 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*, 219, 1113-1151.
195. **Vanneste** (2014). Tuning the tinnitus brain? *The hearing journal*, 67, 6.
196. **Vanneste, S.**, Congedo, M. & De Ridder, D. (2014). Pinpointing a highly specific pathological functional connection that turns phantom sound into distress. *Cerebral cortex*, 24, 2268-2282.
197. **Vanneste, S.**, Joos, K., Langguth, B., To, W. T., & De Ridder, D. (2014). Neuronal correlates of maladaptive coping: an EEG-study in tinnitus patients. *Plos One*, e88253.
198. **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.
199. 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.
200. 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.
 201. 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.
 202. 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.
 203. De Ridder, D., Song, J. J. & **Vanneste, S.** (2013). Frontal cortex TMS for tinnitus. *Brain Stimulation*, 6, 355-362.
 204. 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.
 205. De Ridder, D., **Vanneste, S.**, Van Laere, K., Menovsky, T. (2013). Chasing map plasticity in neuropathic pain. *World Neurosurgery*, 6, 901-905.
 206. 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.
 207. 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.
 208. 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.
 209. 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.
 210. 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.
 211. **Vanneste, S.** & De Ridder, D. (2013). Brain areas controlling heart rate variability in tinnitus and tinnitus-related distress. *Plos One*, 8, e59728.
 212. **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.
 213. **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.

214. **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.
215. **Vanneste, S.**, Song, J. J. & De Ridder, D. (2013). Tinnitus and musical hallucinosis: the same but more. *Neuroimage*, 82, 373-383.
216. **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.
217. **Vanneste, S.**, Walsh, V., Van De Heyning, P. & De Ridder, D. (2013). Comparing immediate transient tinnitus suppression using tACS and tDCS: a placebo-controlled study. *Experimental Brain Research*, 226, 25-31.
218. De Ridder, D. & **Vanneste, S.** (2012). EEG driven tDCS versus bifrontal tDCS. *Frontiers in Psychiatry*, 3, 84-92.
219. 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.
220. 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.
221. 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.
222. 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.
223. Elgoyhen, A. B., Langguth, B., **Vanneste, S.**, & De Ridder, D. (2012). Tinnitus: Network pathophysiology-network pharmacology. *Frontiers in System Neuroscience*, 6, 1-12.
224. 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.
225. Joos, K., **Vanneste, S.**, & De Ridder, D. (2012). Disentangling mood and distress networks in the tinnitus brain. *Plos One*, 7, e40544.
226. 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,

* The first two authors equally contributed to the manuscript.

- P., Zeman, F., Mohr, M., Koller, M. (2012). Trauma-associated Tinnitus: Audiological, Demographic and Clinical Characteristics. *Plos One*, 7, e45599.
227. 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.
 228. 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.
 229. 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.
 230. 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*, e427941.
 231. 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.
 232. **Vanneste, S.** & De Ridder, D. (2012). Non-invasive and invasive neuromodulation for the treatment of tinnitus: An overview. *Neuromodulation*, 15, 350-360.
 233. **Vanneste, S.** & De Ridder, D. (2012). Parietal double cone coil stimulation in tinnitus. *Experimental Brain Research*, 221, 337-343.
 234. **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.
 235. **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.
 236. **Vanneste, S.** & De Ridder, D. (2012). The use of alcohol as a moderator for tinnitus-related distress. *Brain Topography*, 25, 97-105.
 237. **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.
 238. **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.
 239. De Ridder, D., **Vanneste, S.**, Congedo, M. (2011). The distressed brain: a group blind source separation analysis on tinnitus. *Plos One*, 6, e24273.
 240. 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.

241. 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.
242. Depoorter, B., Van Hiel A., **Vanneste, S.** (2011). Copyright Backlash. *Southern California Law Review*.
243. 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*.
244. Plazier, M., **Vanneste, S.**, Dekelver, I., Thimineur, M. & De Ridder, D. (2011). Peripheral nerve stimulation for fibromyalgia. *Progress in Neurology Surgery*, 24, 133-46.
245. 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.
246. Van Zimmeren, E., **Vanneste, S.**, Matthijs, G., Vanhaverbeke, W. & Van Overwalle, G. (2011). Patent pools and clearinghouses in the life sciences. *Trends in Biotechnology*, 29, 569-576.
247. **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.
248. **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.
249. **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.
250. **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.
251. **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.
252. **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.
253. **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.
254. **Vanneste, S.**, Van de Heyning, P., & De Ridder, D. (2011). Contralateral parahippocampal gamma-band activity determines noise-like tinnitus laterality. *Neuroscience*, 199, 481-490.
255. **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.

256. 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.
257. 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.
258. 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.
259. 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.
260. **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.
261. **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.
262. **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.
263. **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*, e13618.
264. **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.
265. Verplaetse, J., & **Vanneste, S.** (2010). Is cheater/cooperator detection an in-group phenomenon? Some preliminary findings. *Letters on Evolutionary Behavioral Science*, 1, 10-14.
266. 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.
267. 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*, e7396.
268. Van Hiel, A., **Vanneste, S.**, & De Cremer, D. (2008) Why did they claim too much? The role of causal attributions in explaining level of cooperation in commons and anticommons dilemmas. *Journal of Applied Social Psychology*, 38, 173-197.
269. **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.

270. 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.
271. Depoorter, B. & **Vanneste, S.** (2006). Putting Humpty Dumpty back together: Experimental Evidence of Anticommons Tragedies. *Journal of Law, Economics & Policy*, 1, 1-24.
272. Depoorter, B. & **Vanneste, S.** (2006). Norms and Enforcement: The Case against copyright litigation. *Oregon Law Review*, 84, 1127-1180.
273. **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.
274. 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.** (2013). Neuromodulatie als interventie voor verslaving: Stand van zaken en toekomstperspectief. *Tijdschrift voor Psychiatrie*, 55, 841-852.
2. Joos, K., De Ridder D., **Vanneste S.** (2012) De neurale netwerken van stotteren en de therapeutische mogelijkheden van transcraniële Direct Current Stimulatie (tDCS) en Transcraniële Magnetische Stimulatie (TMS). *Logopedie*, 23-35.
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, S. & **Vanneste, S.** (in press). Emerging Trends in Modulating Pain Circuitry. In *Brain Circuitry and Neuromodulation* edited by Nir Lipsman and Tejas Sankar.
2. Langguth, B., Kleinjung, T., Schlee, W., **Vanneste, S.** & De Ridder, D. (2023) Preference. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
3. Byczynski, G., **Vanneste, S.** & Møller, A. (2023). Anatomy and Physiology of the Auditory System. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.

4. Adcock, K., De Ridder, D. & **Vanneste, S.** (2023). Structural and functional MRI based neuroimaging in tinnitus. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
5. Mohan, A. & **Vanneste, S.** (2023). The electrophysiological explorations in tinnitus over the decades using EEG and MEG. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
6. De Ridder, D., **Vanneste, S.**, Sedley, W., & Friston, K. (2023). The Bayesian brain and tinnitus. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
7. **Vanneste, S.** & Kleinjung, T. (2023) Non-invasive brain stimulation. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
8. De Ridder, D. & **Vanneste, S.** (2023) Invasive brain stimulation. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
9. **Vanneste, S.** & Kleinjung, T. (2023) Bimodal stimulation for the treatment of tinnitus. In De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & Vanneste, S. Textbook of Tinnitus. Springer.
10. Leong, S. L. & **Vanneste, S.** (2022). Cutting-edge approaches in tinnitus management. In Deshpande, A. & Hall, J. (Eds.) Recent Advancement in Tinnitus. Plural Publishing, Ca. USA.
11. De Ridder, D., Kilgard, M & **Vanneste, S.** (2022). Vagal Nerve Stimulation for Tinnitus. In *Vagus Nerve Stimulation* edited by Peter Staats, Cenk Ayata & Imanuel Lerman. Elsevier
12. Leong, S. L. & **Vanneste, S.** (2021). Transcranial direct current stimulation for the treatment of tinnitus. In *Transcranial Direct Current Stimulation in Neuropsychiatric Disorders* edited by Andre Brunoni, Michael Nitsch & Colleen Loo. Springer.
13. De Ridder, D., Van Camp, T., **Vanneste, S.** (2018). Fundamentals of Burst Stimulation of the Spinal Cord and Brain. In *Neuromodulation* edited by Eliot Kramer, Hunter P. Pechkam & Ali Rezai. London: Academic Press. 147-160.
14. De Ridder, **Vanneste, S.**, D., Stöckl T., Langguth, B. & To, W. T. (2017). Non-invasive transcranial magnetic and electrical stimulation: working mechanisms. In *Rhythmic Stimulation Procedures in Neuromodulation*, edited by James Evans & Robert Turner, 192-223. London: Academic Press.
15. De Ridder, D., Manning, P., Cape, G., **Vanneste, S.**, Langguth, B., & Glue, P. (2016). Pathophysiology-based neuromodulation for addictions: An overview. In *Neuropathology of drug addictions and substance misuse (Vol. 1)*, edited by V. R. Preedy, 14-24. London: Elsevier.
16. Slavin, K. V., Carayannopoulos, A. G., Plazier, M., **Vanneste, S.**, & De Ridder, D. (2015). Peripheral Nerve Stimulation. In *Textbook of Neuromodulation*, edited by H. Knotkova, D. Rasche, 19-34. London: Springer.
17. De Ridder, D., **Vanneste, S.**, Song, J. J., Langguth, B. (2014). Tinnitus. In *Textbook of cortical brain stimulation sciences*, edited by S. Canavero, 187-200. Berlin: De Gruyter,

18. Dammekens, E., Lafosse, C., Van Kerckhoven, L., Buys, R., Ost, J., & **Vanneste, S.** (2013). Transcraniële direct current stimulatie en taaltherapie. In *Het (voor)beeldig beeld*, edited by E. Robert, E. Visch-Brink, A.-S. Beeckamn. Antwerp: Garant,
19. De Ridder, D. & **Vanneste, S.** (2010). Auditory cortex stimulation for tinnitus. In *Textbook of Tinnitus* by A. R. Moller, T. Kleinjung, B. Langguth, D. De Ridder. Springer
20. Depoorter, B. & **Vanneste, S.** (2010). Putting Humpty Dumpty back together: Experimental Evidence of Anticommons Tragedies. In *Common and Anticommons*, edited by M. Heller. Northampton: Edward Elgar.
21. **Vanneste, S.** & De Ridder, D. (2010). Transcranial Direct Current Stimulation: A New Tool for the Treatment of Tinnitus. In *Textbook of Tinnitus* by A. R. Moller, T. Kleinjung, B. Langguth, D. De Ridder. Springer.
22. **Vanneste, S.**, & Cornelis, G. (2006). *Op zoek naar de leugenaar/La quête du menteur/Looking for the liar*. In Dr. Guislain Museum Voorbij goed & Kwaad/Par delà le bien & le mal/Beyond good & evil.

Books

1. De Ridder, D., Langguth, Kleinjung, T., Schlee, W. & **Vanneste, S.** *Textbook of Tinnitus*. Springer.
2. Langguth, B., Kleinjung, T., De Ridder, D., Schlee, W., & **Vanneste, S.** (2021). An Interdisciplinary Approach Towards Individualized Treatment: Results from the European Graduate School for Interdisciplinary Tinnitus Research. *Progress in Brain Research: Tinnitus* (Vol. 263), Elsevier, USA. 1-208.
3. Schlee W., Langguth, B., Kleinjung, T., De Ridder, D. & **Vanneste, S.** (2021). An Interdisciplinary Approach Towards Individualized Treatment: *Towards understanding the complexity of tinnitus*. *Progress in Brain Research: Tinnitus* (Vol. 262), Elsevier, USA, 1-526.
4. Langguth, B., Kleinjung, T., Schlee, W., **Vanneste, S.**, & De Ridder, D. (2021). *An Interdisciplinary Approach Towards Individualized Treatment: From Heterogeneity to Personalized Medicine*. *Progress in Brain Research: Tinnitus* (Vol. 260), Elsevier, USA, 1-451.
5. Verplaetse, J., De Schrijver, **Vanneste, S.**, & Braeckman, J., Iochki, N. & Mochizuki, F. (2013). *The moral Brain: Essays on the evolutionary and neuroscientific aspects of morality*. Springer, Tokyo. (Translated in Japanese)
6. Verplaetse, J., De Schrijver, **Vanneste, S.**, & Braeckman, J. (2009). *The moral Brain: Essays on the evolutionary and neuroscientific aspects of morality*. Springer, New York.
7. Van Zimmeren, E., **Vanneste, S.**, & Van Overwalle, G. (2011). Patent Licensing in Medical Biotechnology in Europe: A Role for Collaborative Licensing Strategies? Leuven, Acco.

Diagnostic Instruments

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

