

## DR. PROF. CARMELO MARIO VICARIO

**Nationality:** Italian

### Academic and professional qualifications (Selection by qualification and / or interview)

- **2010** European Research Doctor in "Neuroplasticity and Rehabilitation of Cognitive Functions", obtained at the University of Rome, La Sapienza, Italy.
- **2007** Certified Psychologist.
- 2005- 2006** Master in Psychological Evaluation, University of Palermo, Italy.
- 1999- 2004** master's degree in psychology (Summa cum Laude), University of Palermo, Italy.

### Current job and / or academic positions:

- December **2022- current**: *Full Professor* of Cognitive Neuroscience, COSPECS Department, University of Messina, Italy: <https://archivio.unime.it/it/persona/carmelo-mario-vicario/curriculum>
- December **2017-current**: *Guest Scientist*, Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany: [Carmelo Mario Vicario - Department of Psychology and Neurosciences \(ifado.de\)](http://Carmelo%20Mario%20Vicario%20-%20Department%20of%20Psychology%20and%20Neurosciences%20(ifado.de))
- July **2018 -current**: *Coordinator* of the MSc in Psychology and Cognitive Neuroscience, University of Messina, Italy: [CdS Psicologia e Neuroscienze Cognitive | Universita' degli Studi di Messina \(unime.it\)](http://CdS%20Psicologia%20e%20Neuroscienze%20Cognitive%20|%20Universita'%20degli%20Studi%20di%20Messina%20(unime.it))
- July **2019-current**: *President* of the Internal Ethics Committee, COSPECS Department, University of Messina, Italy: [Composizione del Comitato Etico COSPECS | Universita' degli Studi di Messina \(unime.it\)](http://Composizione%20del%20Comitato%20Etico%20COSPECS%20|%20Universita'%20degli%20Studi%20di%20Messina%20(unime.it))
- January **2020-current**: *Scientific Director* of the Cognitive Neuroscience laboratory, University of Messina, Italy: <https://carmelovicario.webnode.it/inauguration-cognitive-neuroscience-lab-cospecs-messinato/>
- November **2020-current**: *Scientific Guarantor* at the Psychotherapy Institute of Family Therapy of Reggio Calabria and Messina, Italy: [Chi siamo | I.T.F. RC-ME \(itfrcme.it\)](http://Chi%20siamo%20|%20I.T.F.%20RC-ME%20(itfrcme.it))
- November **2018-current**, *Member of the Research and Internationalization Commission*, University of Messina, Italy: [REFERENTI MOBILITA' INTERNAZIONALE E FRONT OFFICE DIPARTIMENTO\\_0.pdf \(unime.it\)](http://REFERENTI%20MOBILITA'%20INTERNAZIONALE%20E%20FRONT%20OFFICE%20DIPARTIMENTO_0.pdf(unime.it))

### Previous job positions and academic appointments

- March **2019** Member of the selection panel of applications for a contract teaching position (SSD M-PSI / 03), University of Messina, Italy.
- **March 2018 – December 2022** *Associate Professor* of Cognitive Neuroscience, COSPECS Department, University of Messina, Italy
- **December 2017**: *von Humboldt Research Fellow* (Experienced Scientist), Dortmund, Germany.
- **April 2016 – April 2018** *Honorary Lecturer* in Psychology, at Bangor University, Wales, United Kingdom.
- **August 2016 - November 2017**: *Adjunct Assistant Professor*, University of Maryland University College Europe, Sigonella, Sicily, Italy.
- **September 2016 - December 2017**: *Post-Doctoral Research Fellow* (B2 level), University of Tasmania, Hobart, Australia.
- **March 2014 - March 2016**: *Senior Research Fellow* (Level 9), Bangor University, Bangor, Uk.
- **January 2013 - March 2014**: *Post-Doctoral Research Fellow* (A8 level), University of Queensland, Australia.
- **April 2010 - April 2012**: *Post-Doctoral Research Fellow* (Senior level), International School for Advanced Studies, Trieste, Italy.

### International academic appointments

- August **2020** External examiner for the Doctor of Philosophy (Ph.D) title, at International Graduate School of Neuroscience (IGSN), University of Bochum, Germany.
- November **2020** External examiner for the Doctor of Philosophy (Ph.D) title, at International Graduate School of Neuroscience (IGSN), University of Bochum, Germany.
- September **2015** External examiner for the Doctor of Philosophy (Ph.D) degree, at Lincoln College, University of Oxford, Uk.



**Summary of publications:** Since my PhD in 2010 I have published 130 articles in peer reviewed journals. My work has been featured at 28 conferences and 18 invited presentations. My current h-index is 30 with 2295 citations on Scopus [Vicario, Carmelo M. - Author details - Scopus](#) (h-index 35 on Google Scholar, with 3312 citations, [Prof Dr Carmelo M. Vicario - Google Scholar](#)).

### Peer review publications (Last five years)

#### 2023

1. Pennisi, P. Salehinejad, M A, Merlo, E.A., Avenanti, A. **Vicario, C.M.** (2023) Temporal discounting in Movement Disorders: A meta-analysis. *Behavioural Brain Research*. 436:114101. Impact Factor 3.352
2. **Vicario C.M.**, Scavone, V., Lucifora, C., Falzone, A., Pioggia, G., Gangemi, S., Craparo, G., Martino, G (2023) Evidence of abnormal scalar timing property in alexithymia. *PlosOne*. e0278881 Impact Factor 3.752
3. **Vicario, C.M.**, Salehinejad MA., Lucifora, C., Martino, G., Falzone, A., Grasso, G., Nitsche MA. (In press). *Combining virtual reality exposure therapy with non-invasive brain stimulation for the treatment of post-traumatic stress disorder and related syndromes. A perspective. In Book "Translational Methods for PTSD Research"* Edited by Graziano Pinna. Publisher: Springer Nature
4. Craparo G.; La Rosa, Valentina; Commodari, Elena; Marino, Graziella;Vezzoli, Michela; Faraci, Palmira; **Vicario, Carmelo Mario**; Cinà Gabriella Serena;Colombi, Morena;Arcoleo, Giuseppe; Severino, Maria;Costanzo, Giulia (2023) . What Is the Role of Psychological Factors in Long COVID Syndrome? Latent Class Analysis in a Sample of Patients Recovered from COVID-19. *International Journal of Environmental Research and Public Health* 20, 1 r 494. Impact Factor 4.614
5. Culicetto, L., Ferraioli, F., Lucifora, C., Falzone, A., Martino, G., Craparo, G., Avenanti, A., **Vicario, C.M.** (In press) Disgust as a transdiagnostic index for mental illness. A narrative review on clinical populations. *Bulletin of the Menninger Clinic*
6. Casula, A., Milazzo, B.M., Martino, G., ...Nitsche, M.A., **Vicario, C.M.** Non-Invasive Brain Stimulation for the Modulation of Aggressive Behavior—A Systematic Review of Randomized Sham-Controlled Studies *Life*, 2023, 13(5), 1220
7. Sergi, A., Messina, A., **Vicario, C.M.**, Martino, G. A Quantum–Classical Model of Brain Dynamics *Entropy*, 2023, 25(4), 592
8. Craparo, G., la Rosa, V.L., Faraci, P., ...Gori, A., **Vicario, C.M.** The role of alexithymia, boredom, desire thinking, and subjective risk intelligence in individuals with gambling disorder: a cross-sectional study. *Minerva Psychiatry*, 2023, 64(1), pp. 28–36
9. Battaglia, S., Di Fazio, C., **Vicario, C.M.**, Avenanti, A. Neuropharmacological Modulation of N-methyl-D-aspartate, Noradrenaline and Endocannabinoid Receptors in Fear Extinction Learning: Synaptic Transmission and Plasticity *International Journal of Molecular Sciences*, 2023, 24(6), 5926
10. Martino, G., Bellone, F., **Vicario, C.M.**, ...Morabito, N., Catalano, A. Interrelations between clinical-psychological features and bone mineral density changes in post-menopausal women undergoing anti-osteoporotic treatment: a two-year follow-up *Frontiers in Endocrinology*, 2023, 14, 1151199
11. Ricciardi, L., Spatari, G., **Vicario, C.M.**, ...Gangemi, S., Martino, G. Clinical Psychology and Clinical Immunology: is there a link between Alexithymia and severe Asthma? *Mediterranean Journal of Clinical Psychology*, 2023, 11(1)

#### 2022

1. **Vicario CM**, Martino G, Lucifora C, Felmingham K. Preliminary evidence on the neural correlates of timing deficit in post-traumatic stress disorder. *Eur J Psychotraumatol*. 2022 Jan 26;13(1):2008151. doi: 10.1080/20008198.2021.2008151. eCollection 2022. **Impact Factor 5.783**
2. Caputo A, **Vicario CM**, Cazzato V, Martino G. Editorial: Psychological Factors as Determinants of Medical Conditions, Volume II. *Front Psychol*. 2022 Mar 21;13:865235 **Impact Factor 4.232**
3. **Vicario CM**, Nitsche MA, Avenanti A. Tongue motor cortex: The back door of the reward system. *Neurosci Biobehav Rev*. 2022 Aug 6;141:104820. **Impact Factor 9.052**
4. Capodici A, Rizzo G, **Vicario CM**, Pennisi A. Deepening the desire for disability: A commentary on Saetta et al. (2022). *Cortex*. 2022 Jun 10:S0010-9452(22)00168-X. **Impact Factor 4.644**



5. Lucifora C, Grasso GM, Nitsche MA, D'Italia G, Sortino M, Salehinejad MA, Falzone A, Avenanti A, **Vicario CM**. Enhanced fear acquisition in individuals with evening chronotype. A virtual reality fear conditioning/extinction study. *J Affect Disord*. 2022 Aug 15;311:344-352 **Impact Factor 6.533**
6. Anselmo A, Lucifora C, Rusconi P, Martino G, Craparo G, Salehinejad MA, **Vicario CM**. Can we rewire criminal mind via non-invasive brain stimulation of prefrontal cortex? Insights from clinical, forensic and social cognition studies. *Curr Psychol*. 2022 May 16:1-11. **Impact Factor 2.387**
7. Prato A, Maugeri N, Chiarotti F, Morcaldi L, **Vicario CM**, Barone R, Rizzo R. A Randomized Controlled Trial Comparing Videoconference vs. Face-to-Face Delivery of Behavior Therapy for Youths With Tourette Syndrome in the Time of COVID-19. *Front Psychiatry*. 2022 May 24; 13:862422 **Impact Factor 5.435**
8. Cazzato V, **Vicario CM**, Urgesi C. 'When hunger makes everything better looking!': The effect of hunger on the aesthetic appreciation of human bodies, faces and objects. *BMC Psychol*. 2022 Apr 11;10(1):98 **Impact Factor 2.588**
9. Formica, S., Rizzo, G., Martino, G., Lucifora, C., Craparo, G., **Vicario, C.M.** (2022) Relationship between disgust sensitivity and irritable bowel syndrome. A preliminary investigation in healthy humans. *Clinical neuropsychiatry*. 19(4), pp. 230-235 **Citation Score 9**
10. Giuseppe Murdaca , Francesca Paladin, Marco Casciaro, **Carmelo Mario Vicario**, Sebastiano Gangemi, Gabriella Martino. Neuro-inflammation and psychopathological disorders. *Biomedicines*. 2133; <https://doi.org/10.3390/biomedicines10092133> **Impact Factor 4.757**
11. Sajjad Basharpour, Nasim Zakibakhsh Mohammadi, Fazeleh Heidari, Anita Azarkolah, **Carmelo M Vicario & Mohammad Ali Salehinejad**. (2022) Emotional working memory training improves cognitive inhibitory abilities in individuals with borderline personality trait: A randomized parallel-group trial. *Journal of Affective Disorders*. ;319:181-188. **Impact Factor 6.533**
12. Muhammad Ishaq, Duyen Tran, Cheng Yang, Min Jia Ng, Arlene Kackanattil, Karthik Tata, Bianca J. Deans, Martin Bleasel, Silvia Vicenzi, Cameron Randall, Tauseef Ahmad, **Carmelo Mario Vicario**, Maurizio Ronci, Mariachiara Zuccarini, Renata Ciccarelli, Paul Scowen, Dinesh Kumar Chellappan, Glenn Jacobson, Alex C. Bissember, Jason A. Smith, Rajaraman Eri, Juan J. Canales, Miguel Iglesias, Nuri Guven, Vanni Caruso. (2022) The anti-obesity compound asperuloside reduces inflammation in the liver and hypothalamus of high-fat-fed mice. *Endocrines*. 3(4), 641-653 **Impact Factor NA**
13. **Vicario C.M.**, Turrini, S., Lucifora, C., Culicetto, C., Ferraioli, F., Falzone, A. M, Nitsche M.A., Avenanti., A. (2022) When the defeat leaves a bad taste in the mouth: regret inhibits the activity of the motor neurons of the tongue. *Brain Stimulation*. 15(6):1448-1450. **Impact Factor 9.1**

## 2021

1. Salehinejad M.A., **Vicario C.M.**, Vila-Rodriguez F., Kadosh R.C., Nitsche M.A. (2021) *tDCS in Child and Adolescent Psychiatry*. In: Brunoni A.R., Nitsche M.A., Loo C.K. (eds) Transcranial Direct Current Stimulation in Neuropsychiatric Disorders. Springer, Cham. [https://doi.org/10.1007/978-3-030-76136-3\\_15](https://doi.org/10.1007/978-3-030-76136-3_15)
2. Salehinejad M.A., Nikolin S., **Vicario C.M.**, Nitsche M.A., Loo C.K., Brunoni A.R. (2021) Safety and Tolerability. In: Brunoni A.R., Nitsche M.A., Loo C.K. (eds) Transcranial Direct Current Stimulation in Neuropsychiatric Disorders. Springer, Cham. [https://doi.org/10.1007/978-3-030-76136-3\\_35](https://doi.org/10.1007/978-3-030-76136-3_35)
3. Ney, L.J., **Vicario, C.M.**, Nitsche M.A., Felmingham (2021) Timing Matters: Transcranial Direct Current Stimulation After Extinction Learning Does Not Improve Subsequent Fear Extinction Retention. *Neurobiology of Learning and Memory*. 177:107356. **Impact Factor 2.768**
4. Prato A, Gulisano M, Scerbo M, Barone R, **Vicario CM**, Rizzo R. (2021). Diagnostic Approach to Pediatric Autoimmune Neuropsychiatric Disorders Associated With Streptococcal Infections (PANDAS): A Narrative Review of Literature Data. *Front Pediatr*. 9:746639. **Impact Factor 3.418**
5. Muhammad Ishaq, Duyen Tran, Yijia Wu, Krzysztof Nowak, Bianca J Deans, Martin Bleasel, Joycelin Tan Zhu Xin, Loh Hui Lin, Wen Ying Ng, Chin Wen Yee, Silvia Vicenzi, Cameron Randall, Cheng Yang, Ee Tan, Manideepika Pasupuleti, Avneet Kaur Grewal, Benjamin Southam, Tauseef Ahmad, Madhur D. Shastri, **Carmelo Mario Vicario**, Maurizio Ronci, Paul Scowen, Dinesh Kumar Chellappan, Glenn Jacobson, Alex C Bissember, Jason A Smith, Rajaraman D Eri, Juan J Canales, Miguel Iglesias, Nuri Guven, Vanni Caruso. (2021). Asperuloside enhances taste perception and prevents weight gain in high-fat fed mice. *Frontiers in Endocrinology*. <https://doi.org/10.3389/fendo.2021.615446> **Impact Factor 5.555**



6. Lucifora, C., Angelini, C., Meteier, Q., **Vicario, C.M.**, Khaled, O. A. Mugellini, E.,Grasso, G.M. Cyber-Therapy: The Use of Artificial Intelligence in Psychological Practice. In: Russo D., Ahram T., Karwowski W., Di Bucchianico G., Taiar R. (eds) Intelligent Human Systems Integration 2021. IHSI 2021. *Advances in Intelligent Systems and Computing*, vol 1322. Springer, Cham. [https://doi.org/10.1007/978-3-030-68017-6\\_19](https://doi.org/10.1007/978-3-030-68017-6_19). **Impact Factor NA**
7. **Vicario, C.M.**, Lucifora, C. (2021). Neuroethics: what the study of clinical models can tell about the nature of moral behavior. *AIMS Neuroscience*. 8, 4: 543-547. **Impact Factor 1.3**
8. Markovic V., **Vicario C. M.**, Yavari, F., Salehinejad A., Nitsche M A, (2021). A systematic review on the effect of non-invasive brain stimulation methods on fear memory and extinction. *Frontiers in Human Neurosci.* <https://doi.org/10.3389/fnhum.2021.655947> **Impact Factor 3.209**
9. **Vicario CM**, Martino G, Marcuzzo A, Craparo G. No Evidence of Perceptual Pseudoneglect in Alexithymia. *Brain Sci.* 2021 Mar 15;11(3):376. **Impact Factor 3.169**
10. Lucifora, C., Martino, G., Curcuruto, A., Salehienjad, M.A., **Vicario, C.M.** (2021). How self-control predicts moral decision making: an exploratory study on healthy participants. *International Journal of Environmental Research and Public Health*. 18(7):3840. **Impact Factor 4.614**
11. Martino, G., Caputo, AS., **Vicario, C.M.**, Ulla Feldt-Rasmussen,Torquil Watt,Maria C. Quattropani, Salvatore Benvenga and Roberto Vita (2021) Alexithymia, Emotional Distress and Perceived Quality of Life in Patients with Hashimoto's Thyroiditis. *Frontiers in Psychology*. 12:667237. **Impact Factor 4.232**
12. Salehienjad, M A; Paknia, N. H, Amir H, Yavari, F., **Vicario, C. M.**, Nitsche, M A. Nejati, v (2021) Contribution of the right temporoparietal junction and ventromedial prefrontal cortex to theory of mind in autism: A randomized, sham-controlled tDCS study. *Autism Res.* 4(8):1572-1584. **Impact Factor. 5.216**
13. Craparo G....**Vicario, C.M.**, et al. (Accept). Traumatic distress, alexithymia, dissociation, and risk of addiction during the first wave of COVID-19 in Italy. Results from a cross-sectional online survey on a non-clinical adult sample. *International J of Mental Health and Addiction*. doi: 10.1007/s11469-021-00569-0. **Impact Factor 11.555**
14. **Vicario, C.M**, Gulisano M., Maugeri N., Albin., R., Rizzo, R. (2021) Moral decision making in Adolescents with Tourette Syndrome. *Movement Disorders*. ;36(9):2205-2206. **Impact Factor 10.45**
15. Martino G, Bellone F, **Vicario CM**, Gaudio A, Caputo A, Corica F, Squadrito G, Schwarz P, Morabito N, Catalano A. (2021). Anxiety Levels Predict Bone Mineral Density in Postmenopausal Women Undergoing Oral Bisphosphonates: A Two-Year Follow-Up. *Int J Environ Res Public Health*.;18(15):8144. **Impact Factor 4.614**
16. Jafari, E., Alizadehgoradel, J.,....**Vicario, C.M.**, ..and Salehinejad, M.A. (2021) Intensified stimulation targeting lateral and medial prefrontal cortices for the treatment of social anxiety disorder: A randomized, double-blind, parallel-group, dose-comparison study. *Brain Stimulation*. 14(4):974-986 **Impact Factor 9.1**

## 2020

1. Molavi,P. Mehriar Nadermohammadi, Habibeh Salvat Ghojehbeiglou, **Vicario, C.M.**, Nitsche, M A, Salehinejad, M.A. (2020) ADHD subtype-specific cognitive correlates and association with self-esteem: a quantitative difference. *BMC Psychiatry*. 20(1):502. **Impact Factor 2.704**
2. **Vicario C M** (2020) Editorial on "COGNITION-ENGAGING PHYSICAL EXERCISES. A FRAMEWORK FOR IMPROVING EXECUTIVE FUNCTIONS". Reti, saperi e linguaggi. *The Italian Journal of Cognitive Science*. DOI: 10.12832/98418 **Impact Factor NA**
3. Martino, G., Caputo, A., **Vicario, C.M.**, et al... (2020) The relationship between Alexithymia and Type 2 Diabetes: A systematic review. *Frontiers in Psychology*. 11:2026. **Impact Factor 4.232**
4. Majidinezhad, M; Ghanavati; E., Kouhestanian, Sahar, **Vicario, C.M.** Michael A. Nitsche; Vahid Nejati (2019) Negative impact of the COVID-19 pandemic on sleep quantitative parameters, quality, and circadian alignment: Implications for psychological well-being and emotional regulation. *EXCLI Journal*. 19:1297-1308. **Impact Factor 4.068**
5. **Vicario C. M.**, Martino, G. (2019) Editorial: dopamine and serotonin in fear extinction: some key questions to be addressed. *AIMS Neuroscience*. 7(3): 271-274 **Impact Factor 1.2**
6. **Vicario C. M.**, Nitsche, MA., Salehienjad, MA, Avanzino, A., and Martino, G. (Accept) Time processing, interoception and insula activation: a mini-review on clinical disorders. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2020.01893>. **Impact Factor 2.067**



7. Martino, G., Caputo, A., Schwarz, P., Fries, W., Bellone, F., Quattropiani, M C, Vicario, C M, (2020) ALEXITHYMIA AND INFLAMMATORY BOWEL DISEASE: A SYSTEMATIC REVIEW. *Frontiers in Psychology*. 11:1763. **Impact Factor 4.232**
8. Rostami, R., Kazemi, R., Jabbari, A., Madani, A., Rostami, H., Taherpour, M A., Jaafari, N., Kuo, M., **Vicario, C.M.**, Nitsche, M.A., Salehinejad, M.A. (2020). Efficacy and Clinical Predictors of response to rTMS treatment in pharmaco-resistant obsessive compulsive disorder (OCD): A retrospective Study. *BMC Psychiatry*. 372 (2020) **Impact Factor 2.704**
9. **Vicario CM**, Salehinejad M A, Mosayebi Samani M, Maezawa H, Avenanti, A, Nitsche, M A (2020) Transcranial Direct Current Stimulation over the tongue motor cortex reduces appetite in healthy humans. *Brain Stimulation*. 2020 May 12;13(4):1121-1123. **Impact Factor 9.2**
10. **Vicario C M**, Gulisano, M., Maugeri, N. Rizzo, R (2020) Delay reward discounting in adolescents with Tourette's Syndrome. *Movement Disorders*. May 11. doi: 10.1002/mds.28096. **Impact Factor 10.45**
11. **Vicario, C. M.**, Salehinejad M A, Avenanti A, Nitsche M A, (2020) Transcranial direct current stimulation (tDCS) in anxiety disorders. In book: *Non-Invasive Brain Stimulation in Psychiatry and Clinical Neurosciences*. Publisher: Springer Nature
12. **Vicario C. M.**, Rafal R D, Di Pellegrino G, Lucifora C, Salehinejad M A, Nitsche M A, Avenanti A (2020). Moral indignation for ethical violations suppresses the tongue motor cortex. *SCAN*. **Impact Factor 3.66**
13. Salehinejad M A,....**Vicario C. M.**, et al. (2020) tDCS in ADHD: a systematic review of efficacy, safety, and protocol induced electrical stimulation. *Neuroscience Bulletin*. **Impact Factor 5.26**
14. Alizadehgoradel, J., Nejati, V., Movahed, F.S., Imani, S., Taherifard, M., Mosayebi Samani, M., **Vicario, C.M.**, et al. (2020) Repeated stimulation of the dorsolateral-prefrontal cortex improves executive dysfunctions and craving in drug addiction: A randomized, double-blind, parallel-group study. *Brain Stimulation*. 13(3):582-593 **Impact Factor 9.2**
15. **Vicario C. M.**, Nitsche M A, Hoysted I, Yavari, F., Avenanti, A, Salehinejad M A, Felmingham K (2020). Anodal transcranial direct current stimulation over the ventromedial prefrontal cortex enhances fear extinction learning in healthy humans: A single blind sham-controlled study. *Brain Stimulation*. 13(2):489-491. **Impact Factor 9.2**
16. Martino G., Caputo, A., Bellone, F., Quattropiani, M.C., **Vicario, C. M.** (2020) Going Beyond the Visible in Type 2 Diabetes Mellitus: Defense Mechanisms and Their Associations With Depression and Health-Related Quality of Life. *Front. Psychol*. doi: 10.3389/fpsyg.2020.00267 **Impact Factor 4.232**
17. Martino, G., Catalano, A., Agostino, A.R., ; Bellone, F., Morabito, N., Lasco, C G.; **Vicario, C.M.**, Schwarz, P., Feldt-Rasmussen, U. (2020) Quality of Life and Psychological Functioning in Postmenopausal Women Assuming Aromatase Inhibitors for Early Breast Cancer. *PlosOne*. 15(3): e0230681. **Impact Factor 3.772**
18. Maezawa, H., **Vicario, C.M.**, Kuo, M., Hirata, M., Mima, T. Nitsche, M A. (2020). Effects of bilateral anodal transcranial direct current stimulation over the tongue primary motor cortex on cortical excitability of the tongue and tongue motor functions. *Brain Stimulation*. **Impact Factor 9.2**

## 2019

1. **Vicario C. M.** (2019) Neuroestetica: una riflessione sulle basi neurobiologiche della bruttezza. Reti, Saperi e Linguaggi. *Italian Journal of Cognitive Science*. pp. 347-350, DOI: 10.12832/96463
2. Martino, G., Sardella, A., Bellone, F., Lasco, C., Langer, V., Cazzato, V., Penna, A., **Vicario, C. M.**, Morabito, N., Catalano, A. (In press) Executive functions and bone health: a focus on cognitive impulsivity and bone mineral density. *Mediterranean Journal of Clinical Psychology*. **Impact Factor 0.887**
3. Martino, G., Catalano, A., Bellone, F., Russo, G.T., **Vicario, C. M.**, et al. (2019) As Time Goes by: Anxiety Negatively Affects the Perceived Quality of Life in Patients with Type 2 Diabetes of Long Duration. *Frontiers in Psychology*. **Impact Factor 4.232**
4. **Vicario C. M.**, Caruso, V., Craparo G., Felmingham K (2019). Time is overestimated in obesity: a cohort study. *Journal of Health Psychology*. doi: 10.1177/1359105319842937 **Impact Factor 3.75**
5. Salehinejad, M. A., Nitsche M. A. **Vicario C. M.**, Wischniewski, M. (2019). Transcranial direct current stimulation for attention-deficit hyperactivity disorder: A meta-analysis of neuropsychological deficits. *PlosOne*; 14(4): e0215095. **Impact Factor 3.756**
6. **Vicario, C.M.**, Salehinejad, M.A., Felmingham, K., Martino, G., Nitsche, M. A. A systematic review on the therapeutic effectiveness of non-invasive brain stimulation for the treatment of anxiety disorders. *Neurosci Biobehav Rev*. 96:219-231. **Impact Factor 9.052**



7.

8. Martino, G., Lagher V, Cazzato, V., **Vicario, C.M.** (2019). Editorial: Psychological factors as determinants of medical conditions. *Frontiers in Psychology*. 10:2502. **Impact Factor 4.232**

## 2018

1. Cazzato, V., Makris, S., Flavell, J.C., **Vicario, C.M.** Group membership and racial bias modulate the temporal estimation of in-group/out-group body movements. *Exp Brain Res*. 2018 Jun 18. doi: 10.1007/s00221-018-5313-4. **Impact Factor 1.878**

2. **Vicario, C.M.**, Nitsche, M.A. (2018). *tDCS in Pediatric Neuropsychiatric Disorders*. Neurotechnology and brain stimulation in pediatric psychiatric and neurodevelopmental disorders. In Peter Enticott & Lindsay M. Oberman Elsevier in. (BOOK Chapter).

3. **Vicario, C.M.**, Felmingham, K. (2018). Slower Time estimation in Post-Traumatic Stress Disorder. *Scientific Reports*. ;8(1):392. **Impact Factor 4.996**

4. **Vicario, C.M.**, Felmingham, K. (2018). The Perception of Time Is Underestimated in Adolescents With Anorexia Nervosa. *Frontiers in Psychiatry*, 9, 121. **Impact Factor 5.435**

5. **Vicario, C.M.** Martino, D. (2018). Social communication in Tourette syndrome: a glimpse at the contribution of the insula and the prefrontal cortex. *Brain*. 141(8):e58. **Impact Factor 15.26**

6. **Vicario, C.M.**, Rogers, R., Kuran, K.A., Rafal, R. D. (2018). The effect of hunger and satiety in the judgment of ethical violations. *Brain and Cognition*. **Impact Factor 2.619**

7. **Vicario, C.M.**, Kuran, K., Urgesi, C. (2018). Does hunger sharpen senses? A psychophysics investigation on the effects of appetite in the timing of reinforcement-oriented actions. *Psychological Research*. 2017 Oct 30. **Impact Factor 2.855**

## Invited lectures (last ten years)

1. **Vicario C M** (2023) Tongue Motor Neurons: The back door of reward system? International Workshop on Quantum Effects in Biology. Accademia Peloritana dei Pericolanti, Unime, May16<sup>th</sup>

2. **Vicario C M** (2022)

3. **Vicario C M** (2022) Come il Cervello decide cosa ci piace e cosa non ci piace. Snack SIPF, 28 October.

4. **Vicario C M** (2022). *Da una donazione del Rotary nuove speranze nel campo della riabilitazione psicologica*. Evento Rotary presso Il circolo, Messina.

5. **Vicario C.M.** (2022). *Come e perché il disgusto plasma anche la cognizione sociale*. Le Neuroscienze Cognitive e il lato oscuro del linguaggio. 19-20 December, CUMO

6. **Vicario C M** (2022). *Alle origini del concetto di moralità: il contributo delle emozioni e degli stati motivazionali*. Mandanici, 11 Settembre, Catania.

7. **Vicario C M** (2021). *Neuroestetica: Come il cervello decide cosa ci piace e cosa non ci piace*. **ADM Congressi** “Il domani che comincia Oggi”. Mandanici, 11 Settembre, Catania.

8. **Vicario C M** (2021). The contribution of the tongue motor neurons in the processing of reward and aversion. *National Brain Mapping Laboratory (NBML)*, April 29<sup>th</sup>, Teheran.

9. **Vicario C M** (2020). *Il contributo dei neuroni motori della lingua nell'elaborazione della ricompensa e dell'avversione*. Simposio della Società Italiana di Psicofisiologia e Neuroscienze Cognitive (SIPF) per il XXVI Congresso della Associazione Italiana di Psicologia, Sezione Psicologia Sperimentale.

10. **Vicario C M** (2019). *Neuroestetica: le basi neurobiologiche della bellezza*. CODISCO IX, 7-9 Novembre, Noto, Italy.

11. **Vicario C M** (2019). *The contribution of the tongue motor neurons in processing reward and aversion*. The 13th ICME International Conference on Complex Medical Engineering, IGSN - Satellite Symposium. **IfAdo**, September 25th, Dortmund, Germany.

12. **Vicario C M** (2019). *Reward and Punishment in the tongue motor neurons some Preliminary evidence*. The 13th ICME International Conference on Complex Medical Engineering, **IfAdo**, September 23th, Dortmund, Germany.

13. **Vicario C M** (2016) *The contribution of the tongue motor cortex in processing reward and aversive outcomes*. ANS Sensorimotor Control Meeting, **University of Tasmania** (AU), December 02 2016.

14. **Vicario C M** (2015). *Reward and aversion processing in humans: the contribution of the primary motor tongue area and salivary secretion*. **Edge Hill University** (Uk), School of Psychology, November 17, 2015.

15. **Vicario C M** (2015). *Reward and aversion processing in humans: the contribution of the primary motor tongue area*. **King's College Hospital, NHS Foundation Trust**, Uk July 8, 2015.



16. **Vicario C M** (2015). *Reward and aversion processing in humans: the contribution of the primary motor tongue area*. Lincoln University, School of Psychology, March 25, 2015.
17. **Vicario C. M.** (2014). *Reward and aversion processing in humans: the contribution of the corticobulbar system*. Cognitive Colloquium Event, Bangor University, School of psychology, April 4, 2014, Bangor, Uk.
18. **Vicario C.M.** (2013) *Uncovering neural mechanisms of reward and aversion*. Brisbane, December 13, University of Queensland, Centre for Perception and Cognitive Neuroscience (CPCN), Australia.

#### Teaching activities and teaching assignments

- **2019 - 2020** Teaching assignment - *Psychometrics of Cognitive Neuroscience* (6 CFU), University of Messina.
- **2019 - 2020** Teaching assignment - *Social Neuroscience* (5 CFU), University of Messina (CUMO- Noto).
- **2019 - current** Teaching assignment - *Cognitive Neuroscience* (12 CFU), University of Messina.
- **2018 - 2022** Teaching assignment - *Fundamentals of Neuroscience* (8 CFU), University of Messina.
- **2018 - current** Teaching assignment - *Cognitive Rehabilitation* (8 CFU), University of Messina.
- **2018-2019** Teaching assignment - *Fundamentals of Clinical Psychology* (6 CFU), University of Messina (CUMO-Noto).
- **2010-2012** Adjunct Professor in *Psychology and Physiological Psychology* (2 CFU) University of Palermo, Italy.
- **2009-2010** Teaching tutor contract at the Faculty of Psychology, University of Rome, La Sapienza, Rome, Italy.
- **2008-2009** Adjunct Professor in *Psychobiology and Physiological Psychology* (2 CFU) University of Palermo, Italy.

#### Supervision

- **2022 PhD** student Antony Casula, University of Messina. **Title of the research project:** Neural correlates of vaccination hesitancy.
- 2021 PhD student Francesca Ferraioli, University of Messina. **Title of the research project:** A study on the role of electrophysiological variables in the study of preference in the context of consumer goods.
- 2021 PhD student Laura Culicetto, University of Messina. **Title of the research project:** Modulation of affective processes through prisms.
- 2021 PhD student Gaetano Rizzo, University of Messina. **Title of the research project:** Role of the cerebellum in appetite modulation.
- 2020 PhD student Adriana Prato, University of Messina. **Title of the research project:** Transcranial Direct Current Stimulation in adolescents with Tourette syndrome.
- 2019 PhD student Maria Catena Silvestri. University of Messina. **Title of the research project:** Semantics of action and movement disorders
- 2019 Dr. Hitoshi Maezawa, IfADo, Dortmund, Germany. **Training activity:** Transcranial magnetic stimulation.
- 2016 Miss Isobel Hoysted, University of Tasmania, Australia. **Title of the research project:** Application of tDCS to enhance fear extinction learning.
- 2014 Mr. Joshua Sam Payne, PhD student, Bangor University, United Kingdom: **Training activity:** transcranial direct current stimulation.
- 2014 Mr. Kennedy Lyndan Bowers, graduate student, Bangor University, United Kingdom. **Title of the research project:** "The influence of visuo-sensory and interoceptive experiences on moral judgment".
- 2014 Research supervision of Michael John Perrins, Master student, Bangor University, UK. **Title of the research project:** "The influence of visuo-sensory and interoceptive experiences on moral judgment".
- 2015 Research supervisor Karolina Agata Kuran, Master student, Bangor University, UK. **Title of the research project:** "The effect of disgusting stimuli on salivation response in healthy humans".
- 2013 Miss. Anica Newman, University of Queensland, Australia. **Title of the research project:** "Time of contact in Australian car drivers".
- 2012 Mr. Luca Desimone, PhD student at the International School for Advanced Studies, Italy. **Training activity:** Transcranial magnetic stimulation.
- 2012 Dr. Naeem Komeilipoor, University of Verona, Italy. **Training activity:** Transcranial magnetic stimulation.

#### Awards and acknowledgments

- **2022** included in the world's top 2% scientists' list released by Stanford University.
- **2021** included in the world's top 2% scientists' list released by Stanford University.
- **2021** Winner of the "SINe Best Paper Prize 2021" in the section Neuroscience, presented at the 12th International Scientific Conference on Neuroethics «Neuroethics: New Ways of Investigating the Brain».



- **2017** Mention of Excellence for the Academic Performance, University of Tasmania, Australia.

### **Memberships and editorial activity**

- **2020-current** Member of the Italian Society of Psychophysiology and Cognitive Neuroscience
- **2016-current:** Individual member of the Brain Research and Integrative Neuroscience Network.
- **2014-2015:** Full member, Psychonomic Society.
- **2013-current:** Editorial board, Frontiers in Psychology.
- **2012-current:** Editorial board, Frontiers in Psychiatry
- **2012-2014:** Associate Editor (guest), Frontiers in Psychology. Title of the research topic: “On a generalized magnitude system in the brain: insights from experimental evidence”.
- **2018- current:** Associate editor (guest), Frontiers in Psychology. Title of the research topic: “Psychological Factors as Determinants of Medical Conditions”.
- **2019-current:** Associate Publisher, Frontiers in Developmental Psychology.
- **2020-current:** Guest editor, Brain Science.

### **Organization / participation in scientific events and interdepartmental exchanges**

- **2023:** Event: Brain Awareness Week. Title of the proposal: *Virtual Reality in Human Mind Investigation*. [Virtual Reality in Human Mind Investigation - Brain Awareness Week](#)
- **2021:** Event: Sea in the Shell (Researchers' Night). Title of the proposal: “*Therapy from exposure to virtual environments for the treatment of Thalassophobia*”. September, University of Messina.
- **2020:** Event: Brain Awareness Week. Title of the proposal: “*Neuroethics and Virtual Reality*”: <https://www.settimanadelcervello.it/event/make-your-choice-neuroetica-e-realta-virtuale/>.
- **2019:** Chair at the oral session entitled: “*multimodal approaches to study cognitive functions*”. 13th International Conference on Complex Medical Engineering, 23rd September.
- **2019:** COSPECS-IfADo interdepartmental agreement organization for internship activities in the field of cognitive and experimental neuroscience.
- **2019:** Organization of a cycle of seminars on the neurobiology of post-traumatic stress disorder and anxiety disorders (Speaker, Dr. Prof kim Felmingam), COSPECS Department, University of Messina (<https://www.unime.it/it/departments/cospecs/events/cycle-of-seminars-visiting-professor-kim-felmingam-dell%E2%80%99universita%E2%80%99-di>).
- **2018:** Organization of a workshop on specific learning disorders (Speaker, Dr. Gaetano Rappo), COSPECS Department, University of Messina (<https://www.unime.it/it/dipartimenti/cospecs/eventi/seminario-i-specific-learning-disorders>).

### **Media coverage**

- <http://bps-research-digest.blogspot.com.au/2010/06/tourettes-syndrome-associated-with.html>
- [http://www.therapytools.com.au/current\\_research/research-0006](http://www.therapytools.com.au/current_research/research-0006)
- <http://www.tsplusblog.com/2010/06/another-benefit-of-tourettes-syndrome/>
- <http://www.wired.com/wiredscience/2010/06/tourettes-goalie-timing-and-downside-upside/>
- <http://scienceblogs.com/cortex/2010/06/24/tourettes/>
- <http://blogs.nature.com/stories/2845>
- Cover art, Neuroscience, 254 issue, August 2013
- <http://www.journals.elsevier.com/cortex/featured-articles/it-is-my-fault-how-the-brain-reacts-to-a-wrong-choice/?sf7919447=1>
- [http://horizon-magazine.eu/article/free-will-decoded\\_en.html](http://horizon-magazine.eu/article/free-will-decoded_en.html)
- <https://sciencedirect.altmetric.com/details/10044116>
- [https://digest.bps.org.uk/2017/10/30/expert-basketball-players-brains-simulate-other-players-movements-in-slow-mo/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+BpsResearchDigest+%28BPS+Research+Digest%29](https://digest.bps.org.uk/2017/10/30/expert-basketball-players-brains-simulate-other-players-movements-in-slow-mo/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+BpsResearchDigest+%28BPS+Research+Digest%29)
- <https://www.psypost.org/2019/05/time-overestimation-and-obesity-are-linked-at-a-psychological-level-53624>
- [https://www.eurekalert.org/pub\\_releases/2021-06/udb-mdh061021.php](https://www.eurekalert.org/pub_releases/2021-06/udb-mdh061021.php)
- “Il venerdì di Repubblica” (18 Giugno 2021, n 1735). Titolo: “Il cibo ci disgusta come una cattiva azione”.
- [Disturbi d’ansia: il ruolo del cronotipo serale e dei meccanismi di apprendimento della paura - Le Scienze](#)



- [Disturbi d'ansia, il rischio è maggiore per le persone più attive nelle ore serali \(rainews.it\)](https://rainews.it)

**Signature**



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