



# POLITECNICO MILANO 1863

**PUBLIC SELECTION ESTABLISHED WITH DIRECTOR'S DECREE NO. 2023\_PRA\_DEIB\_4 OF 30/06/2023 PURSUANT TO THE NOTICE PUBLISHED IN THE OFFICIAL GAZETTE NO. 11/07/2023, n. 52 FOR 1 POSITION AS ASSOCIATE PROFESSOR FOR THE COMPETITION SECTOR 05/D1 - PHYSIOLOGY - SDS BIO/09 - PHYSIOLOGY, PURSUANT TO ART. 18 - LAW 240/2010, AT THE POLITECNICO DI MILANO - DEPARTMENT OF ELECTRONICS, INFORMATION AND BIOENGINEERING (PROCEDURE CODE 2023\_PRA\_DEIB\_4).**

## FINAL REPORT

The Selection Board, appointed with RD Index No. 10670 ref. No. 214205 of 19 September 2023, composed by the following Professors:

Prof. D'ANGELO Egidio Ugo - Università degli Studi di Pavia;  
Prof. HUMMEL Friedhelm Christoph - École polytechnique fédérale de Lausanne;  
Prof.ssa MAFFEI Arianna - Stony Brook University,

met on 15 November 2023 at 2pm CET, for the first teleconference meeting.  
Each board member was connected from his/her workstation.

At the start of the session the members of the Selection Board named the Chairman and the Secretary of the Selection Board:

D'ANGELO Egidio Ugo, FULL PROFESSOR, University of Pavia, Chairman;  
D'ANGELO Egidio Ugo, FULL PROFESSOR, University of Pavia, Secretary.

Each member of the board declared not to have conjugal nor family relationship or other degree of kinship or affinity up to the fourth degree, not to be in same-sex civil union (as per art. 1 of Law No. 76 of 20.05.2016) and not to form a cohabiting couple (as per art. 1, paragraphs 37 et seq. of Law No. 76 of 20.05.2016) with the other members of this board and that there were no reasons for abstention pursuant to arts. 51 and 52 of the Civil Procedure Code.

The members of the Selection Board and the Secretary declared, pursuant to art. 35-bis of Legislative Decree 165/2001, not to have criminal convictions, even with non-definitive sentences, for offences provided for in Chapter I, Title II of the second book of the Criminal Code.

The Selection Board established the criteria and the parameters according to which the assessment was carried out, and set the minimum score below which the candidate shall not be included in the ranking of candidates.

On 20/12/2023 at 16.00, the Selection Board met on videoconference to inspect the list of applicants, who were:

- 1) Artoni Fiorenzo
- 2) Spampinato Danny Adrian
- 3) Vecchiato Giovanni

Each member of the board declared not to have conjugal nor family relationship or other degree of kinship or affinity up to the fourth degree, not to be in same-sex civil union (as per art. 1 of Law No. 76 of 20.05.2016) and not to form a cohabiting couple (as per art. 1, paragraphs 37 et seq. of Law No. 76 of 20.05.2016) with the candidates and stated that there were no reasons for abstention pursuant to arts. 51 and 52 of the Civil Procedure Code.

Pursuant to the examination and after adequate evaluation, the Selection Board assigned a score to each of the established criteria and a judgment to each publication submitted by the candidate; furthermore, the board evaluated the knowledge of the English language.

Therefore the board, considering the sum of the scores given, expressed a collective judgment in relation to the quantity and the quality of publications, evaluating the overall productivity of the applicant, also with regard to his/her period of activity.

The above-mentioned judgments are attached to this report and they are an integral part of it (Attachment No. 1 to this final report).



The Selection Board drew up, according to the majority of its members, a ranking of candidates selected to carry out the scientific/teaching functions for which the selection was called, in a number equal to a maximum of five times the number of positions available in the competition (Attachment No. 2 to this final report).

THE SELECTION BOARD

*Prof. Egidio D'Angelo (Chairman and Secretary)*

*Prof. Friedhelm Hummel (Member)*

*Prof. Arianna Maffei (Member)*

\_\_\_\_\_  
  
\_\_\_\_\_  




**PUBLIC SELECTION ESTABLISHED WITH DIRECTOR'S DECREE NO. 2023\_PRA\_DEIB\_4 OF 30/06/2023 PURSUANT TO THE NOTICE PUBLISHED IN THE OFFICIAL GAZETTE NO. 11/07/2023, n. 52 FOR 1 POSITION AS ASSOCIATE PROFESSOR FOR THE COMPETITION SECTOR 05/D1 - PHYSIOLOGY - SDS BIO/09 - PHYSIOLOGY, PURSUANT TO ART. 18 - LAW 240/2010, AT THE POLITECNICO DI MILANO - DEPARTMENT OF ELECTRONICS, INFORMATION AND BIOENGINEERING (PROCEDURE CODE 2023\_PRA\_DEIB\_4).**

## ATTACHMENT No. 1 to the FINAL REPORT

CRITERIA	Quality of scientific and/or project production, assessed on the basis of criteria and parameters recognized by the international scientific community of reference	Teaching activity at the university level in Italy or abroad	Scientific responsibility for funded research projects	Results obtained in technology transfer in terms of participation in the creation of new enterprises (spin off), development, use and marketing of patents	Total
Artoni Fiorenzo	42	8	20	15	85
Spampinato Danny Adrian	48	10	6	0	64
Vecchiato Giovanni	30	10	5	5	50

### CANDIDATE: Artoni Fiorenzo

#### CURRICULUM:

The candidate shows an outstanding CV (9 years of postdoc activity, H index = 19) with rapid acceleration of research activity. The formation is in bioengineering and neuroscience with the highest scores. Then the scientific activity has been largely carried out abroad in renown laboratories. AF developed significant methods and tools. AF generated relevant data and scientific concepts about brain functioning. AF has published several papers in peer reviewed scientific journals with high / very high IF that are relevant to the present call for sector BIO/09. AF has participated to international projects as PI, has developed technology transfer and founded a spinoff. AF received fellowships and awards. During the years, AF has mentored about 30 among PhD, MSc and BSc students and has given teaching courses and seminars in neuroscience and engineering. AF built up relevant managements skills and was involved in journal editorial boards and institutional boards of the hosting bodies. The candidate shows a mature CV and demonstrates a high potential for future research developments.

#### SUBMITTED PUBLICATIONS:

No. of publications	Type/Title of Publication	Judgment Fair (F), Good (G); Very Good (VG); Excellent (E)
1	Artoni F.*, Menicucci D., Delorme A., Makeig S., Micera S. RELICA: a method for estimating the reliability of independent components, <i>NeuroImage</i> , Volume 103, December 2014, Pages 391-400. doi: 10.1016/j.neuroimage.2014.09.010	E
2	Artoni F.*, Maillard J., Britz J., Brunet D., Lysakowski C., Tramer MR., Michel CM Microsynt: exploring the syntax of EEG microstates - <a href="https://www.sciencedirect.com/science/article/pii/S1053811923003476">https://www.sciencedirect.com/science/article/pii/S1053811923003476</a> -	E
3	Cometa A., D'Orio P., Revay M., Bottoni F., Repetto C., Lo Russo G., Cappa S., Moro A., Micera S. & Artoni F* Event-related causality in Stereo-EEG discriminates syntactic processing of noun phrases and verb phrases, <i>Journal of Neural Engineering</i> , - <a href="https://iopscience.iop.org/article/10.1088/1741-2552/accaa8">https://iopscience.iop.org/article/10.1088/1741-2552/accaa8</a> -	VG
4	Artoni F.*, Maillard J., Britz J., Seeber M., Lysakowski C., Bréchet L., Tramèr M.R., Michel C.M., EEG microstate dynamics indicate a U-shaped path to propofol-induced loss of consciousness, <i>NeuroImage</i> , - <a href="https://www.sciencedirect.com/science/article/pii/S105381192200283X">https://www.sciencedirect.com/science/article/pii/S105381192200283X</a>	E
5	Cometa A., D'Orio P., Revay M., Micera S. & Artoni F.*, Stimulus evoked causality estimation in Stereo-EEG, <i>Journal of Neural Engineering</i> , 2021	VG

6	Tortora S., Ghidoni S., Chisari C., Micera S., Artoni F.* Deep learning-based BCI for gait decoding from EEG with LSTM recurrent neural network, J. Neural Eng. <a href="https://iopscience.iop.org/article/10.1088/1741-2552/ab9842">https://iopscience.iop.org/article/10.1088/1741-2552/ab9842</a>	VG
7	Artoni F., d'Orio P., Catricalà E., Conca F., Bottoni F., Pelliccia V., Sartori I., Lo Russo G., Cappa F. Stefano, Micera S., Moro A., High gamma response tracks different syntactic structures in homophonous phrases, Nature Scientific Reports	VG
8	Cannaviello G., Raffoul W., Billard A., Micera S., Shared proportional control of a dexterous myoelectric prosthesis, Nature Machine Intelligence, 400-411 (2019) - <a href="https://www.nature.com/articles/s42256-019-0093-5">https://www.nature.com/articles/s42256-019-0093-5</a>	VG
9	Gaillet V. & Cutrone A. & Artoni F., Vagni P., Mega Pratiwi A., Pinto A. R. Sandra., Di Paola L Darlo., Micera S., Ghezzi D. Spatially selective activation of the visual cortex via intraneural stimulation of the optic nerve Nature Biomedical Engineering (2019)	E
10	Genna, C, Oddo C., Fanciullacci C., Chisari C., Micera S., Artoni F.*, Bilateral cortical representation of tactile roughness, Brain Research, 2018	VG
11	Artoni, F*, Delorme, A., Makeig, S. Applying dimension reduction to EEG data by Principal Component Analysis reduces the quality of its subsequent Independent Component decomposition. NeuroImage (2018)	E
12	Kieliba P., Tropea P., Pirondini E., Coscia M., Micera S., Artoni F*. How are muscle synergies affected by electromyography preprocessing? IEEE Transaction on Neural Systems and Rehabilitation Engineering 2018 <a href="https://ieeexplore.ieee.org/document/8315071">https://ieeexplore.ieee.org/document/8315071</a>	VG
13	Artoni F*, Barsotti A., Guanzirolli E., Micera S., Landi A., Molteni F. Effective Synchronization of EEG and EMG for Mobile Brain/Body Imaging in Clinical Settings, Frontiers in Human Neurosciences (2018) DOI:10.3389/fnhum.2017.00652 - <a href="https://www.frontiersin.org/articles/10.3389/fnhum.2017.00652">https://www.frontiersin.org/articles/10.3389/fnhum.2017.00652</a>	VG
14	Artoni F.*, Fanciullacci C., Bertolucci F., Panarese A., Makeig S., Micera S., Chisari C. Unidirectional brain to muscle connectivity reveals motor cortex control of leg muscles during stereotyped walking, NeuroImage 159 (2017) 403-416 - <a href="https://www.sciencedirect.com/science/article/pii/S1053811917305815">https://www.sciencedirect.com/science/article/pii/S1053811917305815</a>	E
15	Oddo C.M., Raspopovic S., Artoni F., Spiegler G., Giambattistelli F., Zollo L., Di Pino G., Camboni D., Carrozza M.C., Guglielmelli E., Rossini P.M., Faraguna U., Micera S. Intraneural stimulation elicits discrimination of textural features by artificial fingertip in intact and amputee humans, eLife 2016 doi: 10.7554/eLife.09148.	G

**Overall collective judgement**

QUALITY OF SCIENTIFIC AND/OR PROJECT PRODUCTION, ASSESSED ON THE BASIS OF CRITERIA AND PARAMETERS RECOGNIZED BY THE INTERNATIONAL SCIENTIFIC COMMUNITY OF REFERENCE:

Considering the recognition of papers in the scientific community (based on the journal impact factor), on the relevance for the research field, and on the personal contribution to each publication (based on positioning in the author list), we have determined a very high score for the 15 publications presented by AF. In several of these AF is first or last author. There are several papers on Nature journals. The general scientific production of the candidate is excellent, with a rapid rate and continuous trend of paper publication (48 in 9 years), which reflects in an H-index of 19. Relevant project capacity (see below).

DIDACTIC ACTIVITIES CARRIED OUT IN ITALIAN OR FOREIGN UNIVERSITIES OR BODIES:

Intense coaching activity for 11 PhD and 11 MSc and 7 BSc students. Most of them have obtained prestigious positions, even in academic fields. AF taught for 6 years neuroscience and engineering as assistant professor (5) or teacher in charge (1).

SCIENTIFIC RESPONSIBILITY FOR FUNDED RESEARCH PROJECTS:

Research funding grants include an EU-H2020 Marie-Curie fellowship (PI), a project funded by private institutions (PI), an NCCR project (co-PI), and a PRIN project (collaborator)

RESULTS OBTAINED IN TECHNOLOGY TRANSFER IN TERMS OF PARTICIPATION IN THE CREATION OF NEW ENTERPRISES (SPIN OFF), DEVELOPMENT, USE AND MARKETING OF PATENTS:

Development of new technologies and concepts, several patents, one spinoff.

SCRUTINY OF THE DEGREE OF KNOWLEDGE OF THE ENGLISH LANGUAGE:

Excellent level testified by the stages abroad, the papers written, and the teaching and conference activity.

**CANDIDATE: Spampinato Danny Adrian**

CURRICULUM:

The candidate shows an excellent CV (6 years of postdoc activity, H index = 14) with good progress of research activity. The formation is in bioengineering and neuroscience. Then the scientific activity has been largely carried out abroad in renown laboratories. SDA has published several papers in peer-reviewed scientific journals with high IF that are relevant to the present call for sector BIO/09. SDA received fellowships and awards. SDA got a PhD grant and Ministry of Health grant. During the years, SDA has given teaching courses and seminars in neuroscience and engineering. The candidate shows a good CV that still needs to be completed in certain aspects (see below).

SUBMITTED PUBLICATIONS:



No. of publications	Type/Title of Publication	Judgment Fair (F), Good (G); Very Good (VG); Excellent (E)
1	D. A. Spampinato, J. Ibanez, L. Rocchi, J. Rothwell Motor potentials evoked by transcranial magnetic stimulation: interpreting a simple measure of a complex system - <a href="https://doi.org/10.1113/JP281885">https://doi.org/10.1113/JP281885</a> - The Journal of Physiology - 2023	E
2	L. Rocchi, D.A. Spampinato et al. "Cerebellar noninvasive neuromodulation Influences the reactivity of the contralateral primary motor cortex and surrounding areas: a TMS-EMG-EEG study." <i>Cerebellum</i> (London, England) vol. 22,3 (2023): 319-331. doi:10.1007/s12311-022-01398-0	VG
3	Spampinato, D.A. "Dissecting two distinct interneuronal networks in M1 with transcranial magnetic stimulation." <i>Experimental brain research</i> vol. 238,7-8 (2020): 1693-1700. doi:10.1007/s00221-020-05875-y	VG
4	Fong, P-Y, D.A. Spampinato et al. "Two forms of short-interval intracortical inhibition in human motor cortex." <i>Brain stimulation</i> vol. 14,5 (2021): 1340-1352. doi:10.1016/j.brs.2021.08.022	E
5	Cantarero, G, D.A. Spampinato et al. "Cerebellar direct current stimulation enhances on-line motor skill acquisition through an effect on accuracy." <i>The Journal of neuroscience : the official journal of the Society for Neuroscience</i> vol. 35,7 (2015): 3285-90. doi:10.1523/JNEUROSCI.2885-14.2015	E
6	Spampinato, D. A., and P Celnik. "Temporal dynamics of cerebellar and motor cortex physiological processes during motor skill learning." <i>Scientific reports</i> vol. 7 40715. 16 Jan. 2017, doi:10.1038/srep40715	E
7	Spampinato, D. A et al. "Cerebellar-M1 Connectivity Changes Associated with Motor Learning Are Somatotopic Specific." <i>The Journal of neuroscience : the official journal of the Society for Neuroscience</i> vol. 37,9 (2017): 2377-2386. doi:10.1523/JNEUROSCI.2511-16.2017	E
8	Spampinato, D. A., and Pablo Celnik. "Deconstructing skill learning and its physiological mechanisms." <i>Cortex; a journal devoted to the study of the nervous system and behavior</i> vol. 104 (2018): 90-102. doi:10.1016/j.cortex.2018.03.017	E
9	Spampinato D. A., Satar Z, Rothwell JC. Combining reward and M1 transcranial direct current stimulation enhances the retention of newly learnt sensorimotor mappings. <i>Brain Stimul.</i> 2019 Sep-Oct;12(5):1205-1212. doi: 10.1016/j.brs.2019.05.015. Epub 2019 May 20. PMID: 31133478; PMCID: PMC6709642.	VG
10	Spampinato, Danny et al. "Cerebellar transcranial magnetic stimulation: The role of coil type from distinct manufacturers." <i>Brain stimulation</i> vol. 13,1 (2020): 153-156. doi:10.1016/j.brs.2019.09.005	E
11	Spampinato, Danny, and Pablo Celnik. "Multiple Motor Learning Processes in Humans: Defining Their Neurophysiological Bases." <i>The Neuroscientist : a review journal bringing neurobiology, neurology and psychiatry</i> vol. 27,3 (2021): 246-267. doi:10.1177/1073858420939552	VG
12	Spampinato, Danny A et al. "Cerebellar-Motor Cortex Connectivity: One or Two Different Networks?." <i>The Journal of neuroscience : the official journal of the Society for Neuroscience</i> vol. 40,21 (2020): 4230-4239. doi:10.1523/JNEUROSCI.2397-19.2020	VG
13	Spampinato, Danny et al. "Frequency-dependent modulation of cerebellar excitability during the application of non-invasive alternating current stimulation." <i>Brain stimulation</i> vol. 14,2 (2021): 277-283. doi:10.1016/j.brs.2021.01.007	E
14	A. Iannone, I. Santiago, S. T. Ajao, J Brasil-Neto, J C. Rothwell, D. A. Spampinato, Comparing the effects of focal and conventional tDCS on motor skill learning: A proof of principle study, <i>Neuroscience Research</i> , Volume 178, 2022, Pages 83-86, ISSN 0168-0102, <a href="https://doi.org/10.1016/j.neures.2022.01.006">https://doi.org/10.1016/j.neures.2022.01.006</a> .	E
15	Fong, P-Y, Spampinato D.A. et al. "EEG responses induced by cerebellar TMS at rest and during visuomotor adaptation." <i>NeuroImage</i> vol. 275 (2023): 120188. doi:10.1016/j.neuroimage.2023.120188	G

**Overall collective judgement**

QUALITY OF SCIENTIFIC AND/OR PROJECT PRODUCTION, ASSESSED ON THE BASIS OF CRITERIA AND PARAMETERS RECOGNIZED BY THE INTERNATIONAL SCIENTIFIC COMMUNITY OF REFERENCE:

Considering the recognition of papers in the scientific community (based on the Journal Impact factor), on the relevance for the research field, and on the personal contribution to each publication (based on positioning in the author list), we have determined a very good score for the 15 publications presented by SDA. In several of these SDA is first or last author. The general scientific production of the candidate is very good, with a rapid rate and continuous trend of paper publication (35 in 8 years), which reflects in an H-index of 14. One fellowship grant (see below).

**DIDACTIC ACTIVITIES CARRIED OUT IN ITALIAN OR FOREIGN UNIVERSITIES OR BODIES:**

Lecturer and instructor for 10 years neuroscience and engineering.

**SCIENTIFIC RESPONSIBILITY FOR FUNDED RESEARCH PROJECTS:**

SDA got a PhD grant and Ministry of Health grant.

**RESULTS OBTAINED IN TECHNOLOGY TRANSFER IN TERMS OF PARTICIPATION IN THE CREATION OF NEW ENTERPRISES (SPIN OFF), DEVELOPMENT, USE AND MARKETING OF PATENTS:**

Not reported

**SCRUTINY OF THE DEGREE OF KNOWLEDGE OF THE ENGLISH LANGUAGE:**

Excellent level testified by the stages abroad, the papers written, and the teaching and conference activity.

**CANDIDATE: Vecchiato Giovanni**

**CURRICULUM:**

The candidate shows a good CV (13 years of activity, H index = 27), however, there is a marked reduction of productivity over the last 8 years. The formation is in bioengineering and neuroscience. Then the scientific activity has been carried out mostly in Italy with several national and international stages. Vecchiato generated relevant data and scientific concepts about brain functioning. Vecchiato has published several papers in peer reviewed scientific journals mostly with low-medium IF that are relevant to the present call for sector BIO/09. Vecchiato has participated in some national and one international project as team member and in one case as PI, has developed technology transfer and founded a spinoff. VG received fellowships and awards. During the years, Vecchiato has mentored about 17 among PhD, MSc and BSc students and has given teaching courses and seminars over about 10 years in neuroscience, biophysics and physiology. The candidate was involved in editorial boards and institutional boards of the research institutions. The candidate potential for future research development is reduced by the low activity level in the last years.

**SUBMITTED PUBLICATIONS:**

No. of publications	Type/Title of Publication	Judgment Fair (F), Good (G); Very Good (VG); Excellent (E)
1	Embodying Language through Gestures: Residuals of Motor Memories Modulate Motor Cortex Excitability during Abstract Words Comprehension. D De Marco, E De Stefani, G Vecchiato Sensors 22 (20), 7734. 2022	VG
2	Changes in brain activity during the observation of TV commercials by using EEG, GSR and HR measurements. Vecchiato G, Astolfi L, De Vico Fallani F, Cincotti F, Mattia D, Salinari S, Soranzo R, Babiloni F. Brain Topogr. 2010 Jun;23(2):165-79.	VG
3	The issue of multiple univariate comparisons in the context of neuroelectric brain mapping: an application in a neuromarketing experiment. Vecchiato G, De Vico Fallani F, Astolfi L, Toppi J, Cincotti F, Mattia D, Salinari S, Babiloni F. J Neurosci Methods. 2010 Aug 30;191(2):283-9.	VG
4	Neuroelectrical hyperscanning measures simultaneous brain activity in humans. Astolfi L, Toppi J, De Vico Fallani F, Vecchiato G, Salinari S, Mattia D, Cincotti F, Babiloni F. Brain Topogr. 2010 Sep;23(3):243-56.	G
5	On the use of EEG or MEG brain imaging tools in neuromarketing research. Vecchiato G, Astolfi L, De Vico Fallani F, Toppi J, Aloise F, Bez F, Wei D, Kong W, Dai J, Cincotti F, Mattia D, Babiloni F. Comput Intell Neurosci. 2011	VG
6	Spectral EEG frontal asymmetries correlate with the experienced pleasantness of TV commercial advertisements. Vecchiato G, Toppi J, Astolfi L, De Vico Fallani F, Cincotti F, Mattia D, Bez F, Babiloni F. Med Biol Eng Comput. 2011 May;49(5):579-83.	VG
7	High-resolution EEG analysis of power spectral density maps and coherence networks in a proportional reasoning task. Vecchiato G, Susac A, Margeti S, De Vico Fallani F, Maglione AG, Supek S, Planinic M, Babiloni F. Brain Topogr. 2013 Apr;26(2):303-14	VG
8	How to measure cerebral correlates of emotions in marketing relevant tasks. Vecchiato G, Cherubino P, Maglione AG, Ezquierro MTH, Marinozzi F, Bini F, Trettel A, Babiloni F. Cogn Comput 2014 Aug;6, 856-871.	G
9	Measuring neurophysiological signals in aircraft pilots and car drivers for the assessment of mental workload, fatigue and drowsiness. Borghini G, Astolfi L, Vecchiato G, Mattia D, Babiloni F. Neurosci Biobehav Rev. 2014 Jul;44:58-75.	G
10	Electroencephalographic Correlates of Sensorimotor Integration and Embodiment during the Appreciation of Virtual Architectural Environments. Vecchiato G, Tieri G, Jelic A, De Matteis F, Maglione AG, Babiloni F. Front Psychol. 2015 Dec 22;6:1944.	VG
11	Investigation of the effect of EEG-BCI on the simultaneous execution of flight simulation and attentional tasks. Vecchiato G, Borghini G, Aricò P, Graziani I, Maglione AG, Cherubino P, Babiloni F. Med Biol Eng Comput. 2016 Oct;54(10):1503-13.	VG
12	Electroencephalographic time-frequency patterns of braking and acceleration movement preparation in car driving simulation. Vecchiato G, Vecchio MD, Ascari L, Antopolskly S, Deon F, Kubin L, Ambeck-Madsen J, Rizzolatti G, Avanzini P. Brain Res. 2019 Aug 1;1716:16-26.	VG

13	Robust anticipation of continuous steering actions from electroencephalographic data during simulated driving. GM Di Liberto, M Barsotti, G Vecchiato, J Ambeck-Madsen, M Del Vecchio, P Avanzini, L Ascari. Scientific reports 11 (1), 23383. 2021.	G
14	Validation of a novel wearable multistream data acquisition and analysis system for ergonomic studies. L Ascari, A Marchenkova, A Bellotti, S Lai, L Moro, K Koshmak, A Mantoan, M Barsotti, R Brondi, G Avveduto, D Sechi, A Compagno, P Avanzini, J Ambeck-Madsen, G Vecchiato Sensors 21 (24), 8167. 2021	VG
15	EEG-EMG coupling as a hybrid method for steering detection in car driving settings. G Vecchiato, M Del Vecchio, J Ambeck-Madsen, L Ascari, P Avanzini Cognitive neurodynamics 16 (5), 987-1002. 2022.	VG

**Overall collective judgement**

QUALITY OF SCIENTIFIC AND/OR PROJECT PRODUCTION, ASSESSED ON THE BASIS OF CRITERIA AND PARAMETERS RECOGNIZED BY THE INTERNATIONAL SCIENTIFIC COMMUNITY OF REFERENCE:

Considering the recognition of papers in the scientific community (based on the journal impact factor), on the relevance for the research field, and on the personal contribution to each publication (based on positioning in the author list), we have determined the score for 15 publications presented by Vecchiato. In several of these, the candidate is first or last author. There are some papers with good IF. The general scientific production of the candidate is good but discontinuous, with the first 7 years showing a high publication rate intensity followed by 8 years with little number of paper (94 in 14 years), which reflects in an H-index of 27, mostly due to papers of the first period. Rather good project productions (see below).

DIDACTIC ACTIVITIES CARRIED OUT IN ITALIAN OR FOREIGN UNIVERSITIES OR BODIES:

Intense coaching activity for 2 PhD and 15 among MSc and 7 BSc students. VG taught for 10 years neuroscience and neurophysiology as assistant professor.

SCIENTIFIC RESPONSIBILITY FOR FUNDED RESEARCH PROJECTS:

Research funding grants include 2 grants from companies, one PRIN (team member) and one Young Researcher Grant of the Italian Ministry of Health (PI)

RESULTS OBTAINED IN TECHNOLOGY TRANSFER IN TERMS OF PARTICIPATION IN THE CREATION OF NEW ENTERPRISES (SPIN OFF), DEVELOPMENT, USE AND MARKETING OF PATENTS:

One spinoff

SCRUTINY OF THE DEGREE OF KNOWLEDGE OF THE ENGLISH LANGUAGE:

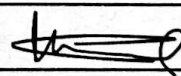
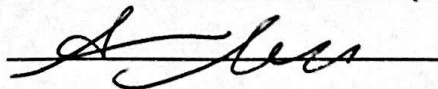
Excellent level testified by the stages abroad, the papers written, and the teaching and conference activity.

**THE SELECTION BOARD**

*Prof. Egidio D'Angelo (Chairman and Secretary)*

*Prof. Friedhelm Hummel (Member)*

*Prof. Arianna Maffei (Member)*

\_\_\_\_\_  
  
 \_\_\_\_\_  




PUBLIC SELECTION ESTABLISHED WITH DIRECTOR'S DECREE NO. 2023\_PRA\_DEIB\_4 OF 30/06/2023 PURSUANT TO THE NOTICE PUBLISHED IN THE OFFICIAL GAZETTE NO. 11/07/2023, n. 52 FOR 1 POSITION AS ASSOCIATE PROFESSOR FOR THE COMPETITION SECTOR 05/D1 - PHYSIOLOGY - SDS BIO/09 - PHYSIOLOGY, PURSUANT TO ART. 18 - LAW 240/2010, AT THE POLITECNICO DI MILANO - DEPARTMENT OF ELECTRONICS, INFORMATION AND BIOENGINEERING (PROCEDURE CODE 2023\_PRA\_DEIB\_4).

## ATTACHMENT No. 2 to the FINAL REPORT

### MERIT RANKING

Surname name	Total Score
Artoni Fiorenzo	85
Spampinato Danny Adrian	64


Milan, 20/12/2023

#### THE SELECTION BOARD

*Prof. Egidio D'Angelo (Chairman and Secretary)*

*Prof. Friedhelm Hummel (Member)*

*Prof. Arianna Maffei (Member)*

\_\_\_\_\_  
  
\_\_\_\_\_  
