

## **BRIEF EDUCATIONAL AND PROFESSIONAL RESUME**

### **Curriculum Vitae**

#### **Personal Information**

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Place of Birth Bologna (Italy)  
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#### **Hints of Care Activities**

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| Dates                              | 04/11/2022 - ongoing   |
| Type of employment                 | <b>Ph.D. Candidate with Assisting Activities as a Neurologist at IRCCS - Institute of Neurological Sciences in Bologna, Italy</b>  |
| Institute                          | Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum - University of Bologna<br>Service location at IRCCS - Institute of Neurological Sciences of Bologna, Via Altura 3, 40139 Bologna (BO), Italy   |
| Location of activities carried out | Dr. Baldelli provides care in the Ordinary Ward, Day Hospital, Operating Room, Outpatient Clinic and Laboratory at U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET- IRCCS Institute of Neurological Sciences in Bologna, Italy.   |
| Details of activities carried out  | <p><i>Main duties and responsibilities:</i></p> <ul style="list-style-type: none"><li>- Continuous daily care activities with active roles in managing the diagnostic and therapeutic pathway of inpatients at the inpatient and day hospital ward of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET.</li><li>- Performing bimonthly intraoperative monitoring including neurophysiological recording and clinical evaluation of patients undergoing electrode implantation surgery for Deep Brain Stimulation (Deep Brain Stimulation).</li><li>- Weekly care activities at the outpatient clinics of the Center for Sleep Disorders of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET with autonomous management of the patient's clinical pathway, including the selection and verification of diagnostic and therapeutic pathways.</li><li>- Routine care activities at the laboratory of the Center for Sleep Disorders of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET including organization, selection of the appropriate investigation technique, reporting and discussion of all types of examinations (actigraphic monitoring, reduced, complete and video outpatient protracted monitoring, nighttime videopolysomnography).</li><li>- Routine care activities at the outpatient clinics of the Center for Movement Disorders of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET, including clinical and neurophysiological monitoring of patients implanted with Deep Brain Stimulation and echo- and EMG-guided treatment with botulinum toxin.</li><li>- Assistive activities at the outpatient clinics of the Center for Vegetative Nervous System Disorders of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET and at the Vegetative Nervous System Exploration Laboratory with autonomous management of the patient's clinical pathway, including the choice and verification of diagnostic and therapeutic pathways.</li><li>- Participation as an investigator in conducting non-profit and sponsored clinical trials and national and international drug trials.</li><li>- Supervision activities of physicians in specialty training and students afferent to the degree courses in Medicine and Neurophysiopathology Techniques (including supervision of thesis preparation) and</li></ul> |

afferent to the facilities and services of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET.

## Hints of Teaching Activities

Teaching Assignments in a National Context

Teaching assignment. General Practitioner Training Bologna 2022. "PARKINSON'S DISEASE" Virtual, April 2, 2022. Lecture title (1 hour): Signs and symptoms that make me suspect parkinsonian syndrome.

Teaching support assignment. "The use of botulinum toxin in adult neurological diseases under ultrasound guidance," Bologna, October 14, 2021. Support in the presentation of clinical cases with concurrent botulinum toxin treatment.

Assignment of Teaching Tutor for 150 hours from 12/14/2016 to 07/09/2017 in assisting the lecturers of the Anatomy Courses of the Single-Cycle Master's Degree Programs in Medicine and Dentistry and Dentistry and Prosthodontics in anatomical dissections for the purpose of preparing cadavers for the practical exercises of septic anatomy of the above-mentioned Courses, assisting the lecturers in carrying out the practical exercises by ensuring that students receive personalized support in learning the discipline

Teaching Assignments in an International Context

Teaching assignment. 2021 Canadian Virtual learning event. "Clinical case-based learning program: Sleep disorders in Parkinson's disease and Atypical Parkinsonisms" Virtual, November 23, 2021. Lecture titles (30 minutes): "Nocturnal complex behaviors in Parkinson's disease: not always REM sleep behavior disorder" and "Sleep and Dysautonomia in a patient with Parkinsonism: a dangerous association."

Integrative Teaching and Student Service Activities.

Support in the teaching, project structuring, data collection and analysis, and final paper writing activities, including the revision phase, of No. 7 dissertations in Medicine and Surgery (Supervisor Prof. Federica Provini) and No. 1 dissertation in Neurophysiopathology Techniques (Supervisor Prof. Federica Provini). Dr. Baldelli currently No. 3 students in the medical degree program for structuring the project, collecting and analyzing data and writing the final thesis paper, including the revision stage.

## Hints of Scientific Activity

Research interests and areas

Dr. Baldelli's current research interests are Sleep Medicine and Movement Disorders, both seen in the integrated approach of neurodegenerative diseases, such as  $\alpha$ -synucleinopathies. His main research activities include characterizing movement disorders during sleep and describing sleep characteristics in neurological diseases (particularly neurodegenerative diseases). Using an integrated approach that combines clinical observation and videopolisonnographic recording of electroencephalographic, motor, and vegetative parameters during wakefulness and sleep, Dr. Baldelli is collecting original data in several morbid conditions. In particular, he is currently part of a project aimed at evaluating the weight of REM Sleep Behavior Disorder in isolation as a prodromal marker of parkinsonism and dementia, especially when associated with other mild but suggestive neurological signs.

In the field of movement disorders, Dr. Baldelli's work resides in the observation and clinical description of movement disorders, with a focus on Parkinsonian syndromes and dystonias, and how traditional and late-stage treatments (including Deep Brain stimulation - DBS and botulinum toxin injections) may influence evolution and prognosis. In this regard, Dr. Baldelli evaluates and performs intra- and postoperative clinical and neurophysiological monitoring of patients implanted with DBS electrodes, looking for markers predictive of response to therapy and prognosis.

More recently, within the broader study of the interaction between sleep and movement disorders, he has turned his research in evaluating the impact of DBS surgery on sleep and circadian rhythms, also supported by the analysis of the activity of Local Field Potentials of the Subthalamic Nucleus during sleep in relation to its macrostructure, microstructure and motor events.

Finally, Dr. Baldelli is interested in the neurophysiological relationships between sleep and the vegetative nervous system, with a focus on rare disorders that include these systems, such as Fatal Familial Insomnia.

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| Participation in national and international funded projects | Dr. Baldelli is part of several national and international projects in the field of Sleep Medicine, including the Italian FARPRESTO study, a multicenter longitudinal Italian registry on patients with iRBD, to stratify the risk of phenoconversion, and the European EraPerMed 2021 BRAVA project, to validate a portable 3D video-based technology employing artificial intelligence to identify and follow patients with iRBD. He was also an active local member of the Horizon 2020 PROPAG-AGEING study, on clinical and biological markers of early PD.  |
| Participation in scientific societies                       | Dr. Baldelli is an active member of several scientific societies of national and international relevance dedicated to sleep, movement disorders, and general neurology. In this regard, he has been appointed as a member of the scientific steering committee of the Sleep Panel within the European Academy of Neurology, as a representative of the resident and research fellow members; he is also responsible for the Panel's eCommunication section.  |
| Awards and honors for scientific activity                   | Dr. Baldelli has also received several awards, including the "2020 American Academy of Neurology International Scholarship Award" and, most recently, the "World Sleep 2022 Young Investigator Award" for research achievements related to the evaluation of markers of progression in REM Sleep Behavior Disorder.  |
| Compendium of trials and research projects followed         | - Investigator in No. 2 clinical trials<br>- Participant in No. 13 research projects 14/12/2016 - 07/09/2017   |
| <b>Scientific Publication Activities</b>                    |  |
| Metrics   | <p><i>Scopus ID: 57204731187; ORCID: 0000-0003-3666-1735</i></p> <ul style="list-style-type: none"> <li>- Years of scientific career = 5 (2019-2023)</li> <li>- Total number of Articles published/accepted in indexed journals (from PubMed, 10/02/2023) = <u>20</u></li> <li>- Total number of Articles published/accepted in indexed journals including papers published as part of a consortium (07/01/2023) = <u>22</u></li> <li>- Total number of Articles published/accepted in indexed journals excluding papers published as part of a consortium (07/01/2023) = <u>19</u></li> <li>- H-Index (Scopus, ID: 57204731187, 10/02/2023): <u>7</u></li> <li>- Number of Total Citations (Scopus, ID: 57204731187, 10/02/2023) = 140</li> <li>- Number of articles published as first or middle name = 9 (8 as first name, 1 as middle name)</li> </ul> |

The undersigned, assuming full responsibility for all data entered therein and reserving the right to provide, if requested, an authentic copy of the necessary documentation, authorizes the processing of personal data in the CV in accordance with art. 13 d. lgs. 30 June 2003 n. 196 - "Code for the Protection of Personal Data" and art. 13 GDPR 679/16 - "European Regulation on the Protection of Personal Data".

Bologna, 10/02/2023

The DECLARANT  
Dr. LUCA BALDELLI

