

BIOSKETCH

Dr. Luca Baldelli is a Neurology consultant and Assistant Professor (Ricercatore Universitario a tempo determinato tipo A - junior) at the Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum - University of Bologna, with clinical duties at the IRCCS Institute of Neurological Sciences of Bologna. He is also a PhD candidate under Professors Pietro Cortelli and Federica Provini, focusing on the neurophysiology of sleep and its interplay with neurodegenerative diseases.

Dr. Baldelli's research primarily explores the intersection of Sleep Medicine, Autonomic and Movement Disorders, particularly the role of isolated REM Sleep Behavior Disorder (iRBD) and autonomic failure as prodromal markers for α -synucleinopathies such as Parkinson's Disease (PD) and related dementias. His studies investigate the progression and phenoconversion of iRBD to neurodegenerative diseases, utilizing advanced methodologies, including videopolysomnography and multimodal biomarkers. He has contributed significantly to the understanding of iRBD's clinical and molecular markers, including autonomic dysfunction and epigenetic changes.

Central to his PhD project is the evaluation of Deep Brain Stimulation (DBS) on the sleep-wake cycle in PD. Employing subthalamic local field potential (LFP) analysis, Dr. Baldelli investigates DBS's effects on sleep architecture and circadian rhythms, aiming to enhance therapeutic strategies for PD-related sleep disturbances. His research also delves into the neurophysiological interplay between sleep and the autonomic nervous system, with a focus on rare conditions like Fatal Familial Insomnia.

Dr. Baldelli serves as the Treasurer Elect on the Administrative Board of the International REM Sleep Behavior Disorder Study Group (IRBDSG) and coordinates working groups within this organization. He is also an elected representative of Residents and Research Fellows within the Scientific Panel on Sleep-Wake Disorders of the European Academy of Neurology (EAN), where he leads eCommunication initiatives. Additionally, he contributes to the Leg Movement Detection Task Force of the International Restless Legs Syndrome Study Group (IRLSSG), focusing on polysomnographic scoring for database standardization.

With over 30 peer-reviewed publications, numerous invited presentations at national and international conferences, and involvement in several multicenter research projects and clinical trials, Dr. Baldelli is recognized for his expertise in Sleep Medicine and its role in neurodegenerative disease research. His work integrates clinical practice and innovative research to advance diagnostic frameworks and therapeutic approaches for sleep-related and neurodegenerative disorders.

EDUCATIONAL AND PROFESSIONAL CURRICULUM

DECLARATION IN LIEU OF D.P.R. 445/2000

I, the undersigned, born in BOLOGNA (BO) on 12/23/1992, declare under my own responsibility, pursuant to Articles 19, 46 and 47 of Presidential Decree no. 445 of 12/28/2000, as amended and conscious of the penal sanctions provided for in Article 76 of the same Presidential Decree for cases of falsity in deeds and false statements, that what is declared in the curriculum below is true and that any photocopies of attached titles are true to the original.

Curriculum Vitae

Personal Information

Name	Luca Baldelli
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PEC	luca.baldelli@casellapec.com
Nationality	Italian
Date of Birth	23/12/1992
Place of Birth	Bologna (Italy)
Tax Code	BLDLCU92T23A944E
Registration number Order of Physicians of the Province of Bologna	17946

Work Activity

Dates	01/03/2023 - ongoing
Type of employment	Assistant professor (Ricercatore Universitario a tempo determinato tipo a - junior) with clinical assistance at AUSL Bologna, equated to Neurologist at IRCCS - Institute of Neurological Sciences of Bologna
Institute	
SSD	Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum - University of Bologna
Location of activities carried out	MED/26 Service location at IRCCS - Institute of Neurological Sciences of Bologna, Bologna, Italy
Details of activities carried out	<p><i>Scope of activities from 01/03/2023 to date</i></p> <p>Activities of Ordinary Department, 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.</p> <p><i>Main duties and responsibilities from 01/03/2023 to date</i></p> <ul style="list-style-type: none">- 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.- Performing bimonthly intraoperative monitoring including neurophysiological recording and clinical evaluation of patients undergoing electrode implantation surgery for Deep Brain Stimulation (Deep Brain Stimulation).- 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.- 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, choice of appropriate investigative technique, reporting and discussion of all types of examinations (actigraphic monitoring, reduced, complete and video outpatient protracted monitoring, nighttime videopolysomnography).

	<ul style="list-style-type: none"> - 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. - 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 selection and verification of diagnostic and therapeutic pathways. - Participation as an investigator in conducting non-profit and sponsored clinical trials and national and international drug trials. - 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 afferent to the facilities and services of the U.O.C Neurological Clinic Metropolitan Neurological Network NEUROMET.
Compendium of research and teaching activities in the period	<ul style="list-style-type: none"> - Investigator in No. 6 clinical trials - Participant in No. 13 research projects - He is currently supervising No. 3 students in the medical degree program for project structuring, data collection and analysis, and writing the final thesis paper, including the revision stage.
Dates	04/11/2022 - 28/02/2023
Type of employment	Ph.D. Candidate with clinical assisting activities as a Neurologist at IRCCS - Institute of Neurological Sciences in Bologna, Italy
Institute	Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum - University of Bologna
Location of activities carried out	Service location at IRCCS - Institute of Neurological Sciences of Bologna, Bologna, Italy
Dates	01/11/2018 - 31/10/2022
Type of employment	Resident in Neurology at the facilities of the training network of the Alma Mater Studiorum - University of Bologna
Institute	Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum - University of Bologna
Locations of activities carried out	Service locations of the educational network of the Alma Mater Studiorum - University of Bologna, including: <ul style="list-style-type: none"> - IRCCS Istituto delle Scienze Neurologiche di Bologna (Bellaria Hospital and Ospedale Maggiore Carlo Alberto Pizzardi sites), Bologna, Italy - Sant'Orsola Polyclinic, Bologna, Italy - Santa Maria delle Croci Hospital, Ravenna, Italy Service location outside the educational network of the Alma Mater Studiorum - University of Bologna: <ul style="list-style-type: none"> - Medizinischen Universität Innsbruck, Universitätskliniken - Landeskrankenhaus Innsbruck, Innsbruck, Austria
Details of activities carried out	Supervised activity with progressive degrees of autonomy of Ordinary Ward, Day Hospital, Operating Room, Outpatient Department and Laboratory at respective training sites in accordance with training plan of the School of Specialty.
Compendium of research and teaching activities	<ul style="list-style-type: none"> - Investigator in No. 6 clinical trials - Participated in No. 14 research projects - Participated in No. 3 teaching assignments - Supervised No. 7 students in the Medical Degree Program and 1 in the Neurophysiopathology Technician Degree Program in structuring the project, collecting and analyzing data and writing the final thesis paper, including the revision phase.
Dates	30/11/2017 - 31/10/2018
Type of employment	Physician with individual assignment under coordinated and continuous collaboration (COCOCO) to carry out the activities related to the PROPAG-AGEING project at IRCCS - Institute of Neurological Sciences in Bologna
Institute and Location of the activities carried out	IRCCS - Institute of Neurological Sciences of Bologna, Bologna, Italy

Details of activities carried out	<p><i>Scope of activities from 11/30/2017 to 10/31/2018</i></p> <p>Physician with individual assignment under coordinated and continuous collaboration (COCOCO), for the period from 01/12/2017 to 30/11/2018 within the framework of the European Horizon 2020 project "The continuum between healthy aging and idiopathic Parkinson Disease within a propagation perspective of inflammation and damage: the search for new diagnostic, prognostic and therapeutic targets- PROPAG-AGEING"- Grant Agreement No.634821".</p> <p>The overall goal of PROPAG-AGEING was to identify the combination of specific cellular and molecular alterations and pathways that can shift the phenotype of elderly subjects from physiological decline to Parkinson's Disease (PD), to ultimately identify markers for early diagnosis of PD.</p> <p><i>Main duties from 11/30/2017 to 10/31/2018</i></p> <ul style="list-style-type: none"> - Collection and organization of clinical-anamnestic data and administration of questionnaires to patients with idiopathic Parkinson's Disease and their siblings/sisters without neurological diseases. - Planning and organizing nighttime videopolysomnographic recordings for the same patients and/or subjects. - Input of data, obtained from clinical evaluations, instrumental examinations and laboratory tests, into a special database.
Compendium of research activities	- Participated in No. 3 research projects
Dates	14/12/2016 - 07/09/2017
Type of employment	Tutor Assistant Professor of Septal Anatomy at the Institute of Anatomy, University of Bologna
Institute and Location of the activities carried out	Institute of Anatomy - Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum - University of Bologna, Bologna, Italy
Details of activities carried out	<p>Winner of a 150-hour mentorship grant as a Septic Anatomy Tutor with the following duties:</p> <ul style="list-style-type: none"> - To assist the faculty members of the Anatomy Courses of the Single-Cycle Bachelor of Science in Medicine and Dentistry and Dentistry and Prosthodontics in anatomical dissections for the purpose of preparing cadavers for the practical exercises of septal anatomy of the above courses. - Assist teachers in conducting practical exercises by ensuring that students receive individualized support in learning the discipline. <p>Tutoring began, prior to the winning of the tutoring grant, on a voluntary basis, starting in October 2013 first as Tutor and then as Coordinator of the Neuroanatomy Group.</p>
Education and training	
Dates	24/12/2022 - 30/08/2023
Route type	<u>Advanced Training Course in "Medical Statistics"</u>
University	Alma Mater Studiorum - University of Bologna, Bologna, Italy
Duration	2 months
Dates	01/11/2021 - ongoing
Route type	<u>PhD in Biomedical and Neuromotor Sciences, Cycle XXXVII</u>
Project title	The impact of Deep Brain Stimulation on Sleep-wake Cycle and correlations between subcortical Local Field Potentials and cortical electrophysiological activity: a longitudinal study
University	Alma Mater Studiorum - University of Bologna, Bologna, Italy
Duration	3 years (currently in the current second year)
Dates	01/11/2018 - 31/10/2022
Title attained	Diploma of Specialist in Neurology , Final grade: 110/110 cum Laude
Title of Thesis	Cardiovascular autonomic dysfunction as a marker of progression and conversion in isolated REM Sleep Behaviour Disorder. Rapporteur Prof. Federica Provini.
University	Alma Mater Studiorum - University of Bologna, Bologna, Italy
Duration	4 years
Training course detail	

In addition to the curricular activities provided by the course of study, Dr. Baldelli, under the guidance of Prof. Provini, developed and refined his training in Sleep Medicine. He has been involved in the outpatient clinics and laboratory of the Sleep Disorders Center acquiring expertise in the main sleep disorders and in particular in the evaluation of videopolisonnographic examinations dedicated to the study of REM, NREM parasomnias and sleep-related movement disorders.

Under the supervision of Prof. Cortelli, Prof. Calandra-Buonaura and Dott.ssa Giannini he also furthered the study and treatment of Movement Disorders and Vegetative Nervous System Disorders by attending the outpatient clinics of the Center for Movement Disorders, acquiring the techniques of clinical and neurophysiological monitoring of patients implanted with Deep Brain Stimulation and echo- and EMG-guided treatment with botulinum toxin, and attending outpatient evaluation and clinical discussion of cases at the Center for Vegetative Nervous System Disorders and the Vegetative Nervous System Exploration Laboratory.

Dr. Baldelli has also been involved in conducting clinical trials, drug trials and supervising students afferent to the Institute.

Dates 23/09/2011 - 17/07/2017
 Title attained **Bachelor of Science Single-Cycle Degree in Medicine**, Final grade: 110/110 cum Laude
 Title of Thesis Sleep, cognitive and vegetative functions in patients with idiopathic RBD. Analysis of the initial cohort and one-year follow-up. Supervisor Prof. Federica Provini.
 University Alma Mater Studiorum - University of Bologna, Bologna, Italy
 Duration 6 years

Dates 09/2006 - 07/2011
 Title attained **International Scientific Maturity Diploma with Italian-English option**, Final grade: 100/100 cum Laude
 Institute Liceo Ginnasio Luigi Galvani, Bologna, Italy
 Duration 5 years
 Training course detail The course of study included the passing of seven International General Certificate of Secondary Education (IGCSE) in English, Mathematics, Physics, Biology, French, Art and photography, and Geography). The First Certificate in English (FCE) and the Diplôme d'Etudes de Langue Française (DELFF) were also obtained.

Training and/or Research at Italian or Foreign Institutes

Dates 20/02/2022 - 28/05/2022
 Educational activity *Fellowship (Foreign)*
 Training and Research Project The following objectives were carried out during the past period:
 - Deepening knowledge of videopolisobographic characteristics of patients with isolated REM Sleep Behavior Disorder (iRBD).
 - Refinement of skills in characterization and classification of motor episodes in sleep in patients with RBD according to recent international guidelines.
 - Acquisition of rudiments of automatic quantitative EEG and video signal analysis (including major analysis software) of videopolisonnographic recordings.
 - Inter-center coordination activities and organization of the start of work within the European BRAVA project (grant EraPerMed 2021).
 - Collection of data for publication in indexed international journal and oral communications for presentation at internationally relevant congresses.
 University Sleep Disorders Clinic (Prof. Birgit Högl), Medizinischen Universität Innsbruck, Universitätskliniken - Landeskrankenhaus Innsbruck, Innsbruck, Austria

Dates 07/03/2016 - 21/07/2017
 Educational activity *Internship - Neurology (Italy)*
 Training Project From March to September 2016 Luca Baldelli attended the outpatient clinics of the Center for Cognitive Disorders and Dementia at the IRCCS Istituto delle Scienze Neurologiche di Bologna - Bellaria Hospital observing the clinical-ambulatory activity and learning the fundamentals of Cognitive Disorders Neurology.

	From October 2016 to August 2017, he attended the outpatient clinics of the Movement Disorders Center of the IRCCS Institute of Neurological Sciences in Bologna - Bellaria Hospital, collaborating in the collection and discussion of clinical data of patients as part of the project "Study of motor and non-motor disorders in early-onset parkinsonian syndromes as diagnostic and prognostic predictive factors" (BoProPark) - EC Code: 09070.
Institute	IRCCS Istituto delle Scienze Neurologiche di Bologna - Bellaria Hospital, Bologna, Italy
Dates	04/07/2016 - 31/07/2016
Educational activity	<i>Internship - Neurosurgery (Foreign)</i>
Training Project	Foreign internship with the aim of increasing and improving knowledge and practical skills in Neurosurgery by connecting them in a multidisciplinary way to the clinical Neurology field. During the course of the training period, Luca Baldelli witnessed different types of operations: neuro-oncological, neurovascular, emergency, spinal, pediatric, and functional (with a focus toward their application to movement disorders).
University	Clinic of Neurosurgery (Dr. Kamp) - Universitätsklinikum Düsseldorf, Düsseldorf, Germany
Dates	27/07/2014 - 21/08/2014
Educational activity	<i>Internship - Internal Medicine and Cardiology (Foreign)</i>
Training Project	Foreign internship with the purpose of increasing and improving knowledge and practical skills in the branches of Internal Medicine and Cardiology. In addition, it allowed to cooperate with foreign professionals and to be able to learn the differences in the approach to the patient and disease and of the different Italian and Japanese healthcare systems.
Institute	Internal Medicine Unit (Dr. Yaegashi) and Cardiology Unit (Dr. Hashimoto) - Kameda Medical Center, Kamogawa, Chiba Prefecture, Japan
Dates	17/06/2013 - 02/08/2013
Educational activity	<i>Training Course - Septic Anatomy Laboratory (Foreign)</i>
Training Project	This course, conducted abroad, increased and improved knowledge and practical skills in human anatomical dissections. In particular, the anatomical and functional basis of voluntary and involuntary movement and its regulatory mechanisms were analyzed during the course. The course was completed with honors and special mention.
University	New York University School of Medicine, New York, USA
Dates	01/2012 - in progress
Educational activity	<i>Training Course - Japanese Language Course (Italy)</i>
Training Project	Current level obtained: Intermediate. Dr. Baldelli has obtained an international certification of Japanese language proficiency: JLPT level N3 (Japanese-Language Proficiency Test - 日本語能力試験).
Institutes	Center for the Study of Far Eastern Art (CSAEO) and Nipponica, Bologna, Italy

Educational and Dissemination Activities

University Teaching	Since 2023:
Assignments (Alma Mater)	- Residency Program of Vascular Surgery. Teaching: Neurology (8 hours)
Studios - University of Bologna)	Since 2024:
	- Residency Program of Internal Medicine. Teaching: Neurology (8 hours)
	- Graduate Program of Neurophysiopathology Techniques. Teaching: Central Nervous System Physiopathology (12 hours)
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

	<p>out the practical exercises by ensuring that students receive personalized support in learning the discipline</p>
Teaching Assignments in an International Context	<p>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."</p>
Integrative Teaching and Student Service Activities.	<p>Co-supervisor of No. 5 dissertations for the degree of Doctor of Medicine (Supervisor Prof. Federica Provini) and No. 1 dissertation in Neurophysiopathology Techniques (Supervisor Prof. Federica Provini):</p> <ol style="list-style-type: none"> 1. M.D. Thesis: Analysis of semeiological features for the differential diagnosis of disorders with complex motor behaviors in sleep: a comparative video analysis. Submitted by: Rita Capelli. ACADEMIC YEAR 2023/2024. 2. M.D. Thesis: Neuropsychological and affective-behavioral profile as a multidimensional biomarker in isolated REM sleep behavior disorder. Submitted by: Daniela Cimatti. ACADEMIC YEAR 2023/2024. 3. M.D. Thesis: Epigenetic profiling in isolated REM sleep behavior disorder: a clinical-molecular study. Submitted by: Martina Albertini. ACADEMIC YEAR 2022/2023. 4. M.D. Thesis: Clinical and instrumental study of vegetative dysfunction as a multimodal biomarker in iRBD. Submitted by: Jacopo del Deo. ACADEMIC YEAR 2022/2023. 5. M.D. Thesis: Sleep characteristics and conversion to neurodegenerative disease in isolated REM sleep disorder: a videopolysomnographic study. Presented by: Stefano Cavatorti. ACADEMIC YEAR 2022/2023. 6. Graduate Thesis in Neurophysiopathology Techniques: Quantification of Rem Sleep Without Atonia in isolated REM sleep behavior disorder: a comparative study of three scoring methods. Submitted by: Martina Daghini. ACADEMIC YEAR 2023/2024. <p>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):</p> <ol style="list-style-type: none"> 1. M.D. Thesis: Longitudinal analysis of muscle activity in sleep in a cohort of patients with behavior disorder in isolated REM sleep. Presented by: Felice Di Laudo. ACADEMIC YEAR 2021/2022. 2. M.D. Thesis: Combined assessment of cognitive performance and multimodal magnetic resonance imaging in isolated REM sleep behavior disorder: a longitudinal cohort study. Presented by: Andrea Colangelo. ACADEMIC YEAR 2021/2022. 3. M.D. Thesis: REM sleep behavior disorder in Parkinson's disease: a longitudinal study. Presented by: Margherita Medici. ACADEMIC YEAR 2020/2021. 4. M.D. Thesis: Parkinson's Disease and Multisystem Atrophy: polysomnographic features compared and proposed differential diagnosis. Submitted by: Simone Salvo. ACADEMIC YEAR 2020/2021. 5. M.D. Thesis: Evaluation of the diagnostic accuracy of a battery of tests in detecting cognitive impairment in Parkinson's Disease and atypical parkinsonisms. Presented by: Anna Stella Gherardi. ACADEMIC YEAR 2020/2021. 6. M.D. Thesis: Prognostic value of REM sleep behavior disorder in Parkinson's disease. Submitted by: Giada Pennella. ACADEMIC YEAR 2019/2020. 7. M.D. Thesis: Behavior disorder in isolated REM sleep: a longitudinal cohort study. Presented by: Andrea Querzani. ACADEMIC YEAR 2019/2020. 8. Graduate Thesis in Neurophysiopathology Techniques: Movement and vocalizations of behavior disorder in REM sleep: systematic analysis of motor episodes in sleep. Submitted by: Giorgia Casadio. ACADEMIC YEAR 2021/2022.
Dissemination Activity	<p>Webinar with patients and territorial neurologists. National Parkinson's Day, Virtual, November 27, 2021. Talk title: Dysautonomia in Parkinson's disease.</p> <p>Writing of popular journal article. Barone V, Baldelli L, Provini F. Sleep: from physiological mechanisms to pathology. Neuroscience Anemos 2020; Year X(36):12-17.</p>

Outreach event to patients and caregivers (Invited speaker). 1 Sample x Caregiver, Bologna, November 6, 2018. Title of paper: Propag-ageing project: research starts with siblings."

Multimedia materials available to the general audience. Baldelli, L. & Provini, F. Video Sleep Pill - REM sleep behavior disorder (RBD): clinical and treatment. AIMS Sleep Pills <https://www.youtube.com/watch?v=IHHZmWueQlc> (2020).

Multimedia materials available to the general audience. Baldelli, L.; Cesari, M.; Ibrahim, A.; Maya, G. BRAVA - Advancing Early Diagnosis of Neurodegenerative Disorders: a 3D Camera Approach. European Partnership for Personalised Medicine <https://youtu.be/OFYsN92SFGQ?si=McWvY5IKjfsqW6K> (2024).

Institutional Activities

Dates	21/06/2024 - ongoing
Role	Treasurer Elect in the Administrative Board of the International RBD Study Group (IRBDSG)
Dates	24/04/2024 – ongoing
Role	Member of the Students-Professors Joint Committee of the Department of Biomedical and NeuroMotor Sciences of the University of Bologna
Dates	20/12/2021 - ongoing
Role	Elected Representative of Residents and Research Fellows (RRFS Representative) and head of eCommunication in the Management Group of the Scientific Panel on Sleep-wake disorders of the European Academy of Neurology (EAN).
Dates	12/03/2021 - 31/10/2022
Role	Elected representative of Residents within the Board of the School of Specialization in Neurology of the Alma Mater Studiorum - University of Bologna.

Scientific Publication Activities

Metrics

Scopus ID: 57204731187; ORCID: 0000-0003-3666-1735

- Years of scientific career = 6 (2019-2024)

- Total number of Articles published/accepted in indexed journals (from PubMed, 04/12/2024) = 31

- Total number of Articles published/accepted in indexed journals including papers published as part of a consortium (21/11/2023) = 36

- Total number of Articles published/accepted in indexed journals excluding papers published as part of a consortium (21/11/2023) = 30

- H-Index (Scopus, ID: 57204731187, 04/12/2024): 10

- Number of Total Citations (Scopus, ID: 57204731187, 04/12/2024) = 395

- Number of articles published as first or second name = 13 (10 as first name, 3 as second name)

Articles published in indexed journals

1. Picciano CP, Mantovani P, Rosetti V, Giannini G, Pegoli M, Castioni CA, Cani I, Baldelli L, Cortelli P, Conti A. How Accurate Is Frameless Fiducial-Free Deep Brain Stimulation? *Oper Neurosurg (Hagerstown)*. 2024 Oct 1;27(4):431-439. doi: 10.1227/ons.0000000000001151. Epub 2024 Apr 10. PMID: 39283098.
2. Montini A, Loddo G, Zenesini C, Mainieri G, Baldelli L, Mignani F, Mondini S, Provini F. Physiological movements during sleep in healthy adults across all ages: a video-polysomnographic analysis of non-codified movements reveals sex differences and distinct motor patterns. *Sleep*. 2024 Sep 9;47(9):zsa138. doi: 10.1093/sleep/zsa138. PMID: 38912822; PMCID: PMC11381566.
3. Mutti C, Baldelli L, Cortelli P, Parrino L, Provini F. Agrypnia excitata: a human model to explore the derailment of sleep-wake cycle integrated control. *J Sleep Res*. 2024 Sep 2:e14324. doi: 10.1111/jsr.14324. Epub ahead of print. PMID: 39223838.
*First name tied for equal contribution.
4. D'Ascanio I, Giannini G, Baldelli L, Cani I, Giannoni A, Leogrande G, Lopane G, Calandra-Buonaura G, Cortelli P, Chiari L, Palmerini L. A method for the synchronization of inertial sensor signals and local field potentials from deep brain stimulation systems. *Biomed Phys Eng Express*. 2024 Jul 16;10(5). doi: 10.1088/2057-1976/ad5e83. PMID: 38959873.
5. Cani I, Giannini G, Guaraldi P, Barletta G, Sambati L, Baldelli L, Cortelli P, Calandra-Buonaura G. Exploring Cardiovascular Autonomic Function before and after Chronic Deep Brain Stimulation in

- Parkinson's Disease. *Mov Disord Clin Pract*. 2024 Jun;11(6):698-703. doi: 10.1002/mdc3.14060. Epub 2024 May 2. PMID: 38698586; PMCID: PMC11145101.
6. Giannini G, Minardi R, Barletta G, Cani I, Cecere A, Baldelli L, Fiorentino A, Guaraldi P, Sambati L, Capellari S, Cortelli P, Carelli V, Calandra-Buonaura G. The Degree of Cardiovascular Autonomic Dysfunction is not Different in GBA-Related and Idiopathic Parkinson's Disease Patients: A Case-Control Instrumental Evaluation. *J Parkinsons Dis*. 2024;14(2):335-346. doi: 10.3233/JPD-230334. PMID: 38306061; PMCID: PMC10977396.
 7. Di Laudo F, Baldelli L, Mainieri G, Loddo G, Montini A, Pazzaglia C, Sala M, Mignani F and Provini F (2023) Daytime sleepiness in Parkinson's disease: a multifaceted symptom. *Front. Sleep* 2:1302021. doi: 10.3389/frsle.2023.1302021
 8. Arnaldi D, Mattioli P, Pardini M, Morbelli S, Capriglia E, Rubino A, Rustioni V, Terzaghi M, Casaglia E, Serra A, Figorilli M, Liguori C, Fernandes M, Placidi F, Baldelli L, Provini F, Ferini-Strambi L, Marelli S, Plazzi G, Antelmi E, Brunetti V, Bonanni E, Puligheddu M; FARPRESTO Consortium. Clinical and dopaminergic imaging characteristics of the FARPRESTO cohort of trial-ready idiopathic rapid eye movement sleep behavior patients. *Eur J Neurol*. 2023 Dec;30(12):3703-3710. doi: 10.1111/ene.16001. Epub 2023 Aug 2. PMID: 37498611.
 9. Giannini G, Baldelli L, Leogrande G, Cani I, Mantovani P, Lopane G, Cortelli P, Calandra-Buonaura G, Conti A. Case report: Bilateral double beta peak activity is influenced by stimulation, levodopa concentrations, and motor tasks, in a Parkinson's disease patient on chronic deep brain stimulation. *Front Neurol*. 2023 May 18;14:1163811. doi: 10.3389/fneur.2023.1163811. PMID: 37273691; PMCID: PMC10232856.
 10. Baldelli L, Pirazzini C, Sambati L, Ravaioli F, Gentilini D, Calandra-Buonaura G, Guaraldi P, Franceschi C, Cortelli P, Garagnani P, Bacalini MG, Provini F. Epigenetic clocks suggest accelerated aging in patients with isolated REM Sleep Behavior Disorder. *NPJ Parkinsons Dis*. 2023 Mar 30;9(1):48. doi: 10.1038/s41531-023-00492-2. PMID: 36997543; PMCID: PMC10063653.
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 28. Baldelli L, Provini F. Fatal familial insomnia and Agrypnia Excitata: Autonomic dysfunctions and pathophysiological implications. *Auton Neurosci*. 2019 May;218:68-86. doi: 10.1016/j.autneu.2019.02.007. Epub 2019 Feb 26. Review. PubMed PMID: 30890351.
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30. Sambati L, Baldelli L, Calandra Buonauro G, Capellari S, Giannini G, Scaglione CLM, Armaroli M, Zoni E, Cortelli P, Martinelli P. Observing movement disorders: best practice proposal in the use of video recording in clinical practice. *Neurol Sci.* 2019 Feb;40(2):333-338. doi: 10.1007/s10072-018-3639-0. Epub 2018 Nov 17. PubMed PMID: 30448965.
 1. Monfrini E, Minardi R, Valzania F, Calandra-Buonauro G, Mandich P, Di Fonzo A; ParkNet Study Group. RAB32 mutation in Parkinson's disease. *Lancet Neurol.* 2024 Oct;23(10):961-962. doi: 10.1016/S1474-4422(24)00324-7. PMID: 39304252. (as part of PARKNET Study Group)
 2. Avenali M, Zangaglia R, Cuconato G, Palmieri I, Albanese A, Artusi CA, Bozzali M, Calandra-Buonauro G, Cavallieri F, Cilia R, Cocco A, Cogiamanian F, Colucci F, Cortelli P, Di Fonzo A, Eleopra R, Giannini G, Imarisio A, Imbalzano G, Ledda C, Lopiano L, Malaguti MC, Mamei F, Minardi R, Mitrotti P, Monfrini E, Spagnolo F, Tassorelli C, Valentino F, Valzania F, Pacchetti C, Valente EM; PARKNET Study Group. Are patients with GBA-Parkinson disease good candidates for deep brain stimulation? A longitudinal multicentric study on a large Italian cohort. *J Neurol Neurosurg Psychiatry.* 2024 Mar 13;95(4):309-315. doi: 10.1136/jnnp-2023-332387. PMID: 37879897; PMCID: PMC10958298. (as part of PARKNET Study Group)
 3. Di Fonzo A, Percetti M, Monfrini E, Palmieri I, Albanese A, Avenali M, Bartoletti-Stella A, Blandini F, Brescia G, Calandra-Buonauro G, Campopiano R, Capellari S, Colangelo I, Comi GP, Cuconato G, Ferese R, Galandra C, Gambardella S, Garavaglia B, Gaudio A, Giardina E, Invernizzi F, Mandich P, Mineri R, Panteghini C, Reale C, Trevisan L, Zampatti S, Cortelli P, Valente EM; PARKNET study group. Harmonizing Genetic Testing for Parkinson's Disease: Results of the PARKNET Multicentric Study. *Mov Disord.* 2023 Sep 26. doi: 10.1002/mds.29617. Epub ahead of print. PMID: 37750340. (as part of the PARKNET Study Group).
 4. Gómez-Garre P, Perrián MT, Jesús S, Bacalini MG, Garagnani P, Mollenhauer B, Pirazzini C, Provini F, Trenkwalder C, Franceschi C, Mir P; PROPAG-AGEING consortium. Transcriptomic analysis reveals an association of FCGBP with Parkinson's disease. *NPJ Parkinsons Dis.* 2022 Nov 12;8(1):157. doi: 10.1038/s41531-022-00415-7. PMID: 36371440; PMCID: PMC9653420. (as part of the PROPAG-AGEING Consortium).
 5. Puligheddu M, Figorilli M, Antelmi E, Arnaldi D, Casaglia E, d'Aloja E, Ferini-Strambi L, Ferri R, Gigli GL, Ingravallo F, Maestri M, Terzaghi M, Plazzi G; and the FARPRESTO Consortium. Predictive risk factors of phenoconversion in idiopathic REM sleep behavior disorder: the Italian study "FARPRESTO". *Neurol Sci.* 2022 Dec;43(12):6919-6928. doi: 10.1007/s10072-022-06374-4. Epub 2022 Sep 10. Erratum in: *Neurol Sci.* 2022 Nov 7;: PMID: 36087148; PMCID: PMC9663351. (as part of the FARPRESTO Consortium).
 6. Meoni G, Tenori L, Schade S, Licari C, Pirazzini C, Bacalini MG, Garagnani P, Turano P; PROPAG-AGEING Consortium, Trenkwalder C, Franceschi C, Mollenhauer B, Luchinat C. Metabolite and lipoprotein profiles reveal sex-related oxidative stress imbalance in de novo drug-naive Parkinson's disease patients. *NPJ Parkinsons Dis.* 2022 Feb 8;8(1):14. doi: 10.1038/s41531-021-00274-8. PMID: 35136088; PMCID: PMC8826921. (as part of the PROPAG-AGEING Consortium).

Book chapters

1. Baldelli L, Calandra-Buonauro G, Provini F and Cortelli P. Fatal Familial Insomnia. in *Autonomic Nervous System and Sleep: Order and Disorder* (eds. Chokroverty S and Cortelli P) 199-212 (Springer International Publishing, 2021). doi:10.1007/978-3-030-62263-3_18.
2. Provini F and Baldelli L H. Sleep-related movement disorders 1. Nosological classification, definitions, and epidemiology. in *Sleep Medicine Textbook, 2nd edition* (eds. Bassetti C L, McNicholas W, Paunio T and Peigneux P) 577-586. European Sleep Research Society (ESRS), 2021.
3. Provini F, Baldelli L. REM parasomnias. In: Culebras A, Editor-in-Chief. *Medlink Neurology*. San Diego: MedLink LLC; as of May 26, 2020 [last updated August 15, 2023; expires August 15, 2026]. Available at: https://www.medlink.com/article/rem_parasomnias.

Participation in National and International scientific courses and conferences

Compendium

- 17 invited oral presentations at national and international courses, conferences, and webinars on neurology topics

- 17 oral presentations at national and international conferences as first author
- 19 posters presented as first author at national or international congresses
- Co-author of >20 abstracts presented at national and international conferences

Invited oral presentations at International courses, conferences and webinars

1. Invited presentation. Congress: Europe 2024 10th Congress of the European Academy of Neurology - Helsinki, Finland – 29 June – 2 July 2024. Session: Case-based workshop. Title of presentation: Isolated REM sleep Behaviour Disorder.
2. Invited presentation. Meeting: International Network of Neurodegenerative Disease Research – GAME – Bologna, Italy – 22 November 2023. Title of presentation: Sleep and autonomic nervous system in alpha-synucleinopathies: a dangerous interaction.
3. Invited presentation. Congress: World Sleep 2023 - Rio de Janeiro, Brazil - October 20-25, 2023. Session: S74: Sleep and autonomic dysfunction: A bidirectional relationship. Title of paper: Dysautonomia in the Alpha-Synucleinopathies: Does it define worse phenotypes?
4. Invited presentation. Congress: eSLEEP EUROPE 2023 - Virtual - October 4-6, 2023. Title of paper: Kicks and punches during sleep in Parkinson's Disease - NOT always RBD.
5. Invited presentation. Congress: AAS American Autonomic Society 33rd International Symposium on the Autonomic Nervous System - Lahaina, Hawaii, USA - November 2-5, 2022. Session: Symposium 4: Sleep and the Autonomic Nervous System. Title of paper: Fatal familial insomnia: a model of sleep and autonomic dysfunction.
6. Invited presentation. Congress: Europe 2022 8th Congress of the European Academy of Neurology - Vienna, Austria - June 25-28, 2022. Session: Interactive session 8. Movements during sleep: from normality to disease. Title of paper: Isolated motor phenomena and normal variants in sleep: when do they become abnormal?
7. Invited presentation. Congress: World Sleep 2022 - Rome, Italy - March 11-16, 2022. Session: SLEEP AND THE AUTONOMIC NERVOUS SYSTEM: A BIDIRECTIONAL RELATIONSHIP. Title of paper: Fatal familial insomnia: a model of sleep and autonomic dysfunction.
8. Invited teaching presentation. Course: 2021 Canadian Virtual learning event. "Clinical case-based learning program: Sleep disorders in Parkinson's disease and Atypical Parkinsonisms" - Virtual - November 23, 2021. Title of papers (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".
9. Invited presentation. Congress: Focus on malattia di Parkinson e Parkinsonismi XX edition - Ancona, Italy - November 15-16, 2024. Session: Non-motor disorders in parkinsonism. Title of presentation: Sleep disorders: clinical framing and therapeutic novelties.
10. Invited presentation. Congress: La disautonomia nella pratica clinica: diagnosi e strategie terapeutiche - Treia, Italy – October 4, 2024. Session: News in management and in the treatment of disorders of the autonomic NS. Title of presentation: Pure autonomic failure and alpha-sinuclein.
11. Invited presentation. Congress: Bologna Parkinson 2023 - Bologna, Italy - March 2-3, 2023. Session: PhD in comparison. Title of presentation: Progression and phenoconversion in isolated REM Sleep Behavior Disorder: the relevant role of cardiovascular dysautonomia.
12. Invited presentation. Course: "TRAINING DAYS on the use of botulinum toxin in movement disorders and headaches" - Bologna (Italy) - February 2-3, 2023. Session: III Session - Presentation of Clinical Cases. Title of paper: Dystonic Tremor of the Upper Limb.
13. Invited teaching presentation. Course: 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.
14. Invited presentation. Webinar: IRCCS Webinar. "ParkLink Bologna: Platform for prospective monitoring of Parkinson's/Parkinsonisms" - Virtual - November 10, 2021. Title of paper (30 minutes): "An "atypical" Parkinson's disease: the importance of correct differential diagnosis."
15. Invited presentation. Congress: 6th ANEU National Congress. Perspectives on Emergency-Urgency in neurology. - Virtual - September 23-25, 2021. Session: NEUROCOVID. Title of paper: Hyperacute reversible cytokine storm-related encephalopathy after vaccination for COVID-19.
16. Invited presentation. Congress: XXX AIMS National Congress - Sleep and its disorders at the time of COVID 19 - Virtual - October 25-27, 2020. Session: SLEEPING DISORDERS AND EPIGENETICS OF AGING. paper title: Sleep disorders in alpha-synucleinopathies: not only RBD.
17. Invited presentation. Refresher Course: The current scenario in the treatment of Multiple Sclerosis - Bologna - November 08, 2019. Session: Interactive Session. Title of paper: Discussion of a clinical case.

Invited oral presentations at National courses, conferences and webinars

Oral Presentations at
International Congresses

1. Oral presentation (first author). Congress: 2024 International RBD Study Group meeting - Oxford, UK - June 19-21, 2023. Baldelli L, Pirazzini C, Sambati L, Ravaioli F, Gentilini D, Calandra-Buonaura G, Guaraldi P, Franceschi C, Cortelli P, Garagnani P, Bacalini MG, Provini F. Epigenome-wide and gene-targeted epigenetic profile of isolated REM Sleep Behaviour Disorder: a clinico-molecular study.
2. Oral presentation (first author): Congress: World Sleep 2023 - Rio de Janeiro, Brazil - October 20-25, 2023. Baldelli L, Mitolo M, Sambati L, Evangelisti S, Sighinolfi G, Guaraldi P, Colangelo A, Rochat MJ, Manners DN, Calandra-Buonaura G, Lodi R, Cortelli P, Tonon C and Provini F. Structural and functional frontal-executive dysfunction suggests compensatory mechanisms in patients with isolated REM Sleep Behavior Disorder: a clinical-MRI longitudinal study.
3. Oral presentation (first author). Congress: 9th Congress of the European Academy of Neurology - Budapest - July 1-4, 2023. Baldelli L, Sambati L, Calandra Buonaura G, Guaraldi P, Cortelli P and Provini F. Cardiovascular autonomic dysfunction as a marker of progression and conversion in isolated REM Sleep Behavior Disorder. Abstracts of the 9th Congress of the European Academy of Neurology, Budapest, Hungary, July 1-4, 2023. Eur J Neurol. 2023 Jun 1;30(S1):252-253.
4. Oral presentation (first author). Congress: 2022 European Federation of Autonomic Societies (EFAS) Congress - Poiana Brasov, Romania - October 6-8, 2022. Baldelli L, Sambati L, Calandra Buonaura G, Guaraldi P, Cortelli P and Provini F. Cardiovascular autonomic dysfunction as a marker of progression and conversion in isolated REM Sleep Behavior Disorder. Abstracts of the 2022 European Federation of Autonomic Societies (EFAS) Congress. Clin Auton Res. 2022 Oct 5;32(5):385-386.
5. Oral presentation (first author). Congress: Sleep Europe 2022 - 26th Congress of the European Sleep Research Society - Athens, Greece - September 27-30, 2022. Baldelli L, Silvani A, Giannini G, Guaraldi P, Sambati L, Cecere A, Mignani F, Cortelli P, Calandra Buonaura G and Provini F. Pervasive and diffuse muscle activity during rem and nrem sleep differentiates multiple system atrophy and Parkinson's disease. 2022, Oral Abstract. J Sleep Res, 31: e13739.
6. Oral presentation (first author). Congress: World Sleep 2022 - Rome, Italy - March 11-16, 2022. Baldelli L, Bacalini MG, Pirazzini C, Sambati L, Mignani F, Guaraldi P, Gentilini D, Calandra-Buonaura G, Garagnani P, Cortelli P, Franceschi C and Provini P. Epigenetic clocks suggest accelerated ageing in isolated REM Sleep Behavior Disorder patients. Sleep Med. 2022;100(S1):189-190.
7. Oral presentation (first author). Congress: 62nd Annual Meeting of the Japanese Society of Neurology - Virtual - May 19-21, 2021. Baldelli L, Baschieri F, Giannini G, Sambati L, Guaraldi P, Cecere A, Barletta G, Cortelli P, Provini F, Calandra-Buonaura G. Discriminant analysis of cardiovascular tests identifies iRBD conversion to specific synucleinopathy.
8. Oral presentation (first author). Congress: 7th International Congress of Multiple System Atrophy - Virtual - February 26-27, 2021. Baldelli L, Baschieri F, Giannini G, Sambati L, Guaraldi P, Cecere A, Barletta G, Cortelli P, Provini F, Calandra-Buonaura G. Discriminant analysis function of cardiovascular autonomic tests in iRBD patients can identify conversion toward a specific α -synucleinopathy.
9. Oral presentation (first author). Congress: Virtual 2020 6th Congress of the European Academy of Neurology - Virtual - May 23-26, 2020. Baldelli L, Calandra-Buonaura G, Guaraldi P, Cortelli P, Provini F. Impact and Distribution of Autonomic Dysregulation in Fatal Familial Insomnia: Data from the Published Cases. European Journal of Neurology. 2020;27:110.
10. Oral presentation (first author). Congress: Virtual 2020 6th Congress of the European Academy of Neurology - Virtual - May 23-26, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Non-motor burden in Isolated REM Sleep Behaviour disorder: systematic evaluation in a prospective cohort. European Journal of Neurology. 2020;27:248.
11. Oral presentation (first author). Congress: American Academy of Neurology AAN 2020 annual meeting - Virtual - April 25 - May 1, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Guaraldi P, Cortelli P, Provini F. Cognitive Determinants in Isolated REM Sleep Behavior Disorder: a Cross-sectional and Longitudinal Approach (1655). Neurology. 2020;94(15 Supplement):1655.
12. Oral presentation (first author): Congress: XXXIV Congresso Nazionale AIMS – Tirrenia, Italy – 29 November – 1 December 2024. Baldelli L, Sambati L, Calandra Buonaura G, Guaraldi P, Cortelli P and Provini F. Cardiovascular autonomic failure as a multidimensional marker in isolated REM sleep Behavior Disorder.
13. Oral presentation (first author): Congresses: XXXIII Congresso Nazionale AIMS – Milano, Italy – 24-26 November 2023 and “III Annual Meeting RIN” – Rome, Italy – 30 November – 1 December 2023. Baldelli L, Mitolo M, Sambati L, Evangelisti S, Sighinolfi G, Guaraldi P, Colangelo A, Rochat MJ, Manners DN, Calandra-Buonaura G, Lodi R, Cortelli P, Tonon C and Provini F. Structural and

Oral Presentations at
National Conferences

functional frontal-executive dysfunction suggests compensatory mechanisms in patients with isolated REM Sleep Behavior Disorder: a clinical-MRI longitudinal study.

14. Oral presentation (first author). Congress: 52nd Congress of the Italian Society of Neurology SIN 2022 - Milan, Italy - December 3-6, 2022. Baldelli L, Bacalini MG, Pirazzini C, Sambati L, Mignani F, Guaraldi P, Gentilini D, Calandra-Buonaura G, Garagnani P, Cortelli P, Franceschi C and Provini P. Epigenetic clocks suggest accelerated ageing in isolated REM Sleep Behavior Disorder patients. *Neurol Sci* (2022) 43(Suppl 1):S517.
15. Oral presentation (first author). Congress: 7th LIMPE-DISMOV Academy Congress - Bologna, Italy - December 15-17, 2021. Baldelli L, Schade S, Jesús S, Schreglmann SR, Sambati L, Gómez-Garre P, Halsband C, Calandra-Buonaura G, Adarmes-Gómez AD, Sixel-Döring F, Zenesini C, Pirazzini C, Garagnani P, Bacalini MG, Bhatia KP, Cortelli P, Mollenhauer B, Franceschi C, Mir P, Trenkwalder C, Provini F. Heterogeneity of prodromal Parkinson symptoms in siblings of Parkinson disease patients. Abstract no. LD2021-087.
16. Oral presentation (first author). Congress: 7th LIMPE-DISMOV Academy Congress - Bologna, Italy - December 15-17, 2021. Baldelli L, Loddo G, Mainieri G, Sambati L, Mignani F, Montini A, Cortelli P, Capellari S, Calandra-Buonaura G, Provini F. Nocturnal complex behaviors in Parkinson's disease: not always REM sleep behavior disorder. Abstract no. LD2021-086.
17. Oral presentation (first author). Congress: 8th Neurology Resident Day - Milan-Rome-Catania - June 11, 2019. Baldelli L, Sambati L, Calandra-Buonaura G, Provini F, Cortelli P. From REM Sleep Behavior Disorder to neurodegeneration: clinical spectrum and ethical issues. Abstract Book p. 27.

Posters presented as first author at International congresses

1. Poster (first author). Congress: ESRS Sleep Europe 2024 – Seville, Spain – 24-27th September 2024. Baldelli L, Pirazzini C, Sambati L, Ravaioli F, Gentilini D, Calandra-Buonaura G, Guaraldi P, Franceschi C, Cortelli P, Garagnani P, Bacalini MG, Provini F. Epigenome-wide and gene-targeted epigenetic profile of isolated REM Sleep Behaviour Disorder: a clinico-molecular study.
2. Poster (first author). Congress: 2024 International RBD Study Group meeting - Oxford, UK - June 19-21, 2023. Baldelli L, Sambati L, Calandra Buonaura G, Guaraldi P, Cortelli P and Provini F. Cardiovascular autonomic failure as a multidimensional marker in isolated REM sleep Behavior Disorder.
3. Poster (first author). Congress: World Sleep 2023 - Rio de Janeiro, Brazil - October 20-25, 2023. Baldelli L, Mitolo M, Sambati L, Evangelisti S, Sighinolfi G, Guaraldi P, Colangelo A, Rochat MJ, Manners DN, Calandra-Buonaura G, Lodi R, Cortelli P, Tonon C and Provini F. Structural and functional frontal-executive dysfunction suggests compensatory mechanisms in patients with isolated REM Sleep Behavior Disorder: a clinical-MRI longitudinal study. **Also presented as an oral presentation at the same congress.*
4. Poster (first author). Congress: 24th Congress of the European Federation of Autonomic Societies - Dubrovnik, Croatia - October 5-7, 2023. Baldelli L, Giannini G, Guaraldi P, Sambati L, Cecere A, Cani, Provini F, Cortelli P and Calandra Buonaura G. Clinical characteristics and disease progression in Multiple System Atrophy patients with early-onset stridor. Abstracts of the 24th Congress of the European Federation of Autonomic Societies October 5-7, 2023, Dubrovnik, Croatia. *Clin Auton Res.* 2023 <https://doi.org/10.1007/s10286-023-00998-y>
5. Poster (first author). Congress: 16th International RBD Study Group meeting - Montreal, Canada - June 8-10, 2023. Baldelli L, Pirazzini C, Sambati L, Ravaioli F, Gentilini D, Calandra-Buonaura G, Guaraldi P, Franceschi C, Cortelli P, Garagnani P, Bacalini MG, Provini F. Epigenetic clocks suggest accelerated aging in patients with isolated REM Sleep Behavior Disorder.
6. Poster (first author). Congress: Sleep Europe 2022 - 26th Congress of the European Sleep Research Society - Athens, Greece - September 27-30, 2022. Baldelli L, Silvani A, Giannini G, Guaraldi P, Sambati L, Cecere A, Mignani F, Cortelli P, Calandra Buonaura G and Provini F. Pervasive and diffuse muscle activity during rem and nrem sleep differentiates multiple system atrophy and Parkinson's disease. 2022, Oral Abstract. *J Sleep Res*, 31: e13739. **Also presented as an oral presentation at the same congress.*
7. Poster (first author). Congress: World Sleep 2022 - Rome, Italy - March 11-16, 2022. Baldelli L, Bacalini MG, Pirazzini C, Sambati L, Mignani F, Guaraldi P, Gentilini D, Calandra-Buonaura G, Garagnani P, Cortelli P, Franceschi C and Provini P. Epigenetic clocks suggest accelerated ageing in isolated REM Sleep Behavior Disorder patients. *Sleep Med.* 2022;100(S1):189-190. **Also presented as an oral presentation at the same congress.*
8. Poster (first author). Congress: AAS American Autonomic Society 31st International Symposium on the Autonomic Nervous System - Virtual - November 6-7, 2020. Baldelli L, Querzani A, Sambati L, Calandra-Buonaura G, Guaraldi P, Baschieri F, et al. Objective longitudinal evaluation of autonomic function in isolated REM sleep behavior disorder. *Clinical Autonomic Research.* 2020;30(5):466.

Posters presented as first author at National congresses

9. Poster (first author). Congress: International Congress of Parkinson's Disease and Movement Disorders MDS 2019 - Nice, France - September 22-26, 2019. L. Baldelli, F. Provini, S. Schade, S. Jesús-Maestre, P. Gomez-Garre, L. Sambati, S. Schreglmann, G. Calandra-Buonaura, C. Halsband, K. P. Bhatia, P. Mir, P. Cortelli, B. Mollenhauer and C. Trenkwalder. On behalf of PROPAG-AGEING consortium. "Familial imprint" of Parkinson disease: the siblings' cohort of PROPAG-AGEING. *Mov Disord.* 2019;34(S2):S317-S319.
10. Poster (first author). Congress: 2nd Annual Meeting RIN 2022 - Bologna, Italy - December 15-16, 2022. Baldelli L, Silvani A, Giannini G, Guaraldi P, Sambati L, Cecere A, Mignani F, Cortelli P, Calandra Buonaura G and Provini F. Pervasive and diffuse muscle activity during rem and nrem sleep differentiates multiple system atrophy and Parkinson's disease.
11. Poster (first author). Congress: 2nd Annual Meeting RIN 2022 - Bologna, Italy - December 15-16, 2022. Baldelli L, Giannini G, Leogrande G, Cani I, Mantovani P, Lopane G, Cortelli P, Calandra Buonaura G and Conti A. Bilateral double-beta peak activity is influenced by stimulation, levodopa concentrations and motor tasks in a Parkinson's disease patient on chronic Deep Brain Stimulation.
12. Poster (first author). Congress: 7th LIMPE-DISMOV Academy Congress - Bologna, Italy - December 15-17, 2021. Baldelli L, Loddo G, Mainieri G, Sambati L, Mignani F, Montini A, Cortelli P, Capellari S, Calandra-Buonaura G, Provini F. Nocturnal complex behaviors in Parkinson's disease: not always REM sleep behavior disorder. Abstract No. LD2021-086. **Also presented as an oral presentation at the same congress.*
13. Poster (first author). Congress: XV SINDEM National Congress - Virtual - November 5-7, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Non-motor determinants of cognitive performance in a cohort of PD patient's siblings. Abstract no. 2.
14. Poster (first author). Congress: XV SINDEM National Congress - Virtual - November 5-7, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Comparison of MoCA's Italian normative data in a cohort of healthy siblings of PD patients. Abstract no. 84.
15. Poster (first author). Congress: 6th LIMPE-DISMOV Academy Congress - Virtual - June 17-19, 2020. Baldelli L, Sambati L, Bacalini MG, Calandra-Buonaura G, Garagnani P, Cortelli P, Franceschi C, Provini F. Estimate of prodromal Parkinson Disease probability in an Italian cohort of Parkinson Disease siblings. Abstract no. LD2020-P18.
16. Poster (first author). Congress: 6th LIMPE-DISMOV Academy Congress - Virtual - June 17-19, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Non-motor burden in Isolated REM Sleep Behaviour disorder: evaluation in a prospective cohort. Abstract No. LD2020-P33.
17. Poster (first author). Congress: SINDEM 4 Juniors 2020 - Brixen, Italy - January 22-24, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Non-motor determinants of cognitive performance in a cohort of PD patient's siblings.
18. Poster (first author). Congress: SINDEM 4 Juniors 2020 - Bressanone, Italy - January 22-24, 2020. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Comparison of MoCA's Italian normative data in a cohort of healthy siblings of PD patients.
19. Poster (first author). Congress: 50th Congress of the Italian Society of Neurology SIN 2019 - Bologna, Italy - October 12-15, 2019. Baldelli L, Sambati L, Calandra-Buonaura G, Cortelli P, Provini F. Autonomic and neuropsychological markers of neurodegeneration in isolated REM Sleep Behavior disorder: a comprehensive evaluation. *Neurol Sci* (2019) 40(Suppl 3):S259-S260.

Congress and Merit Awards

Congressional Awards

1. Award: 2020 AAN International Scholarship Award. Congress: American Academy of Neurology AAN 2020 annual meeting - Virtual - April 25 - May 1, 2020. Title of paper presented: Cognitive Determinants in Isolated REM Sleep Behavior Disorder: a Cross-sectional and Longitudinal Approach.
2. Award: Young Investigator Award. Congress: World Sleep 2022 - Rome, Italy - March 11-16, 2022. Title of paper presented: Epigenetic clocks suggest accelerated aging in isolated REM Sleep Behavior Disorder patients.
3. Award: Young Investigator Award. Congress: World Sleep 2023 - Rio de Janeiro, Brazil - October 20-25, 2023. Title of paper presented: Structural and functional frontal-executive dysfunction suggests compensatory mechanisms in patients with isolated REM Sleep Behavior Disorder: a clinical-MRI longitudinal study.

Travel grants

1. Grant: Youth Project. Congress: 52nd Congress of the Italian Society of Neurology SIN 2022 - Milan, Italy - December 3-6, 2022.

2. Grant: Participation Grant. Congress: SINDEM 4 Juniors 2020 - Brixen, Italy - January 22-24, 2020.
3. Grant: EAN Travel Bursary. Congress: 6th Congress of the European Academy of Neurology - Virtual - May 23-26, 2020 (* congress originally planned to be in attendance with congress venue Paris)
4. Grant: Youth Project. Congress: 50th Congress of the Italian Society of Neurology SIN 2019 - Milan, Italy - October 12-15, 2019.
5. Grant: scholarship for study abroad experience Bologna headquarters announced by REP. No. 28/2013 - Prot. No. 195 of 03/04/2013 V/5.2. Project: Laboratory of Septal Anatomy at New York University School of Medicine, New York, USA from 17/06/2013 to 02/08/2013.

Other merit awards and scholarships

1. Scholarship for deserving students enrolled in the single-cycle master's degree course in Medicine and Surgery announced by P.D.n.748 dated 23/2/2017
2. Study Award in Favor of Meritorious Students for enrolled in a.a.2016/2017 in Courses of Study of the University of Bologna announced by P.D. no.114 Prot. no.4706 of 17/01/2017
3. Study Award in Favor of Meritorious Students for students enrolled in a.y. 2015/2016 in Courses of Study of the University of Bologna announced by P.D. no. 163 Prot. no.5449 of 25/01/2016
4. Bologna Surgical Medical Society "Giovanni Mazzotti" Award for the Best Anatomy Examination of the a.y. 2012/2013. Bologna December 14, 2013.

Editorial and reviewing activities in scientific journals

Participation on editorial boards of journals

- Member of the Editorial Board (Review Editor) of the journal *Frontiers in Sleep* since 2022

Reviewer activities in impacted journals

Activity as reviewer for >20 articles submitted to impacted journals of which (ORCID data):

- No. 16 articles for the journal *Neurological Sciences*
- No. 7 articles for the journal *PloS one*
- No. 1 article for the journal *Neurology*

Groups and associations of recognized prestige in the field

Participation in prestigious International research groups in the field

- 2021 - ongoing. Member of the Scientific Panel on Sleep-wake disorders of the European Academy of Neurology. Covered activities currently in progress:

- Elected Representative of Residents and Research Fellows (RRFS Representative)
- Head of eCommunication

- 2020 - ongoing. Member of the International REM sleep Behavior Disorder Study Group (IRBDSG). Covered activities currently in progress:

- Since June 2024 member of the study group board as Treasurer-Elect.
- Coordinator of the working group to update and maintain the IRBDSG website.
- Co-coordinator of the working group for the construction of a "Minimal Clinical DataSet" in the longitudinal evaluation of multicenter cohorts of patients with REM Sleep Behavior Disorder Isolated (together with Prof. Michele Hu and Dr. Pietro-Luca Ratti).

- 2022 - ongoing. Contributor to the LegMovementDetection Task Force (LMoDe) group within the International Restless Legs Syndrome Study Group (IRLSSG). Covered activities currently in progress:

- Leg Movements scoring activities in anonymized polysomnographies for the creation of an open database.

Membership in prestigious International associations and academies in the field

- Member of the "American Academy of Neurology (AAN)" from 2019 to present
- Member of the "International Parkinson and Movement Disorders society (MDS)" from 2019 to present
- Member of the "European Academy of Neurology (EAN)" from 2020 to present
- Member of the World Sleep Society (WSS) from 2022 to the present.
- Member of the European Sleep Research Society from 2022 to present
- Member of the Italian Society of Neurology from 2019 to present
- Member of the Italian Association of Sleep Medicine (AIMS) from 2019 to present

Membership in prestigious national associations and academies in the field

- Member of the LIMPE-DISMOV Academy from 2021 to the present.

Investigator in Clinical Trials

Period Trial	2023 - ongoing ATH434-201 - ARANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY OF ATH434 IN MULTIPLE SYSTEM ATROPHY
Sponsors	Altherity THERAPEUTICS
Period Trial	2022 - ongoing BN42358, A phase IIB, Randomized, Double-Blind, Placebo-Controlled, Multicenter study to evaluate the efficacy and safety of intravenous Prasinezumab in participants with Early Parkinson's Disease, PADOVA
Sponsors	Roche
Period Trial	2022 - ongoing BIA-91067-303, A phase III, Double-Blind, Randomized, Placebo-Controlled and Parallel-Group Study to evaluate the Efficacy and Safety of Opicapone, as Add-on to stable levodopa (L-Dopa) plus a dopa Decarboxylase Inhibitor (DDCI) Therapy in Early Idiopathic Parkinson's Disease Patients, with an Open-Label Extension, The EPSILON Study
Sponsors	Bial
Period Trial	2020-2021 169 - Phase 3 Clinical Effect of TD-9855 for Treating symptomatic nOH in Subjects With Primary Autonomic Failure
Sponsors	Theravance Biopharma Ireland Limited
Period Trial	2020-2021 170 - Phase 3 Clinical Effect Durability of TD-9855 for Treating snOH in Subjects with Primary Autonomic Failure
Sponsors	Theravance Biopharma Ireland Limited
Period Trial	2020-2021 171 - A Phase 3, 182-week, Open-Label Extension Study to Investigate the Safety and Tolerability of TD-9855 in Treating Symptomatic Neurogenic Orthostatic Hypotension (symptomatic nOH) in Subjects with Primary Autonomic Failure
Sponsors	Theravance Biopharma Ireland Limited
Period Trial	2019-2020 Z7219K01-A 12-weeks, multicenter, randomized, double-blind, placebo-controlled, exploratory, pilot study to evaluate the safety and efficacy of safinamide 200 mg once daily, as add-on therapy, in patients with possible or probable parkinsonian variant of multiple system atrophy
Sponsors	ZAMBON

Research Projects

Period	2022 - ongoing
Title of the study	Behaviours in REM sleep: personalised Automatic 3D Video Analysis as novel tool to detect alpha-synucleinopathies - Advanced Analysis of Sleep Disorders with Motor Manifestations - Development of Alternative Methods of 3D Video and Audio Analysis - BRAVA
Type of study	International multicenter interventional study
Announcement and funding	Winning study of the European call for funding ERA PerMed JTC2021 (code ERAPERMED2021-093)
Coordinating center	Medical University Innsbruck, Innsbruck, Austria
PI (local PI)	Prof. Birgit Högl (Prof. Federica Provini)
Period	2022 - ongoing
Title of the study	PET studies of patients with Pure Autonomic Failure - PET imaging study in patients with Pure Vegetative Failure.
Type of study	International multicenter interventional study

Coordinating center PI (local PI)	Dept. of Nuclear medicine and PET, Aarhus University Hospital, Aarhus, Denmark Prof. Per Borghammer (Prof. Pietro Cortelli)
Period	2022 - ongoing
Title of the study	Autonomic Symptoms in Patients with Idiopathic Hypersomnia.
Type of study	International multicenter study
Coordinating center PI (local PI)	Stanford University, USA Prof. Mitchell Miglis (Dr. Pietro Guaraldi)
Period	2022 - ongoing
Title of the study	Implementation of novel early biomarkers for Parkinson's disease and atypical parkinsonisms - BIOPARK.
Type of study	Multicenter prospective cohort study with additional international procedures
Coordinating center PI (local PI)	Neurocentro della Svizzera Italiana, Lugano, Switzerland Prof. Alain Kaelin (Prof. Federica Provini)
Period	2021 - ongoing
Title of the study	Brain connectivity in the patient with movement disorders undergoing deep brain stimulation surgery: correlations with clinical and electrophysiological variables and evaluation of their predictivity on outcome - CONNECT-DBS.
Type of study	Single-center prospective interventional study
PI	Dr. Giulia Giannini
Period	2021 - ongoing
Title of the study	Functional Magnetic Resonance Imaging Study in Arousal Disorders - SLEEP
Type of study	Single-center interventional study
PI	Prof. Federica Provini
Period	2020 - ongoing
Title of the study	PREdictive Risk Factors of conversion in idiopathic RBD. STudio ItalianO - FaRPreSto
Type of study	Multicenter national prospective cohort study on behalf of the Italian Association of Sleep Medicine (AIMS).
Coordinating center PI (local PI)	University of Cagliari Azienda Ospedaliero-Universitaria, Monserrato (CA), Italy Prof. Monica Puligheddu (Prof. Federica Provini)
Period	2020 - ongoing
Title of the study	Clinical and genetic characterization of patients with early-onset Parkinson's disease - "PARK-NET" network study.
Type of study	Multicenter observational study within the IRCCS Network of Neuroscience and Rehabilitation (RIN)
Coordinating Center PI	IRCCS Istituto delle Scienze Neurologiche di Bologna, Bologna, Italy Prof. Pietro Cortelli
Period	2020 - ongoing
Title of the study	Study for systematic evaluation of laryngeal function in patients with Atypical Parkinsonian Syndromes - FEES-MSA.
Type of study	International multicenter observational study
Coordinating center PI (local PI)	Neurological Hospital for Movement Disorders/Parkinson's Disease, Beelitz-Heilstätten, Germany Dr. Florin Gandor (Prof. Giovanna Calandra Buonauro)
Period	2019 - ongoing
Title of the study	Natural history of a cohort of patients with isolated vegetative failure and analysis of conversion factors in other synucleinopathies.
Type of study	Single-center prospective cohort study
Study center PI	IRCCS Istituto delle Scienze Neurologiche di Bologna, Bologna, Italy Prof. Pietro Cortelli
Period	2018 - ongoing
Title of the study	Assessment of quality of life, cognitive function, sleep disturbance and vegetative symptoms in patients with Parkinson's Disease undergoing motor fluctuations undergoing advanced therapies (deep brain stimulation and continuous infusion of Duodopa) referred to the Movement Disorders Center of Bologna.
Type of study	Single-center prospective cohort study

Study center PI	IRCCS Istituto delle Scienze Neurologiche di Bologna, Bologna, Italy Prof. Pietro Cortelli
Period	2018 - ongoing
Title of the study	Multicenter observational study on the prevalence of autonomic symptoms measured by the Composite Autonomic Symptoms Score Compass 31 (COMPASS 31) scale in patients referred to movement disorder centers.
Type of study	National multicenter observational study
Coordinating Center PI	IRCCS Istituto delle Scienze Neurologiche di Bologna, Bologna, Italy Prof. Pietro Cortelli
Period	2017 - ongoing
Title of the study	Assessment of cognitive, vegetative, and olfactory features and their evolution in patients with idiopathic RBD
Type of study PI	Single-center interventional prospective cohort study Prof. Federica Provini
Period	2016 - 2019
Title of the study	The continuum between healthy aging and idiopathic Parkinson Disease within a propagation perspective of inflammation and damage: the search for new diagnostic, prognostic and therapeutic targets - PROPAG-AGEING' ('action')
Type of study	International multicenter case-control study
Announcement and funding	Study won the European call for funding Horizon 2020 (Grant Agreement No. 634821)
Coordinating Center PI	IRCCS Istituto delle Scienze Neurologiche di Bologna, Bologna, Italy Prof. Claudio Franceschi
Period	2016-2017
Title of the study	Study of motor and nonmotor disturbances in parkinsonian syndromes at onset as diagnostic and prognostic predictive factors - BoProPark
Type of study PI	Single-center prospective cohort study Prof. Pietro Cortelli
Training courses with practical activities and Training activities	
Dates	20/02/2022 - 28/05/2022
Educational activity	Fellowship in Sleep Medicine - Neurology (Foreign)
University	Sleep Disorders Clinic (Prof. Birgit Högl), Medizinischen Universität Innsbruck, Universitätskliniken - Landeskrankenhaus Innsbruck, Innsbruck, Austria
Dates	18-22/05/2022
Training course	EAN Spring School 2022 (Learner)
Location	Frankenfels, Austria
Dates	03-05/02/2022
Training course	Update on neurophysiologic diagnostics and interventional therapies in movement disorders - I Edition (Discussant)
Location	Venice, Italy
Dates	14/10/2022
Training course	The use of botulinum toxin in adult neurological diseases under ultrasound guidance (Learner and Teaching Support)
Location	Bologna, Italy
Dates	16-18/09/2021
Training course	Toxin Academy Botulin Masterclass (Learner)
Location	Fribourg, Switzerland
Dates	14-15/06/2019
Training course	Prodromal Parkinson's Disease (Learner)

Location	Kiel, Germany																											
Dates	13-16/04/2019																											
Training course	XXIII RESIDENTIAL COURSE OF SLEEP MEDICINE (Trainee)																											
Location	Bertinoro, Italy																											
Dates	07/03/2016 - 21/07/2017																											
Educational activity	Internship - Neurology (Italy)																											
Institute	IRCCS Istituto delle Scienze Neurologiche di Bologna - Bellaria Hospital, Bologna, Italy																											
Dates	04/07/2016 - 31/07/2016																											
Educational activity	Internship - Neurosurgery (Foreign)																											
University	Clinic of Neurosurgery (Dr. Kamp) - Universitätsklinikum Düsseldorf, Düsseldorf, Germany																											
Dates	27/07/2014 - 21/08/2014																											
Educational activity	Internship - Internal Medicine and Cardiology (Foreign)																											
Institute	Internal Medicine Unit (Dr. Yaegashi) and Cardiology Unit (Dr. Hashimoto) - Kameda Medical Center, Kamogawa, Chiba Prefecture, Japan																											
Dates	17/06/2013 - 02/08/2013																											
Training course	Laboratory of Gross Anatomy (Foreign)																											
University	New York University School of Medicine, New York																											
More information																												
Organizational and communication skills	<ul style="list-style-type: none"> - Strong organizational skills, in leading a work team and problem-solving. - Excellent ability to establish good relationships with team members. - Valuable communication skills also acquired through many years of representative experience both in the academic field (representative of students in the Graduate School of Medicine and physicians in specialty training during the School of Specialty in Neurology) and non-academic. 																											
Computer skills	<ul style="list-style-type: none"> - Excellent computer skills in Windows™ and Macintosh™ operating systems, good computer skills in Linux - Excellent knowledge of Microsoft Office™ suite, IBM SPSS Statistics™, STATA™ statistical software, File Maker. - Good digital image and video-editing skills, including knowledge of AdobePhotoshop™ and Adobe Premier Pro™ software - Good knowledge in intranet and internet organization, decent skills in cryptography and cybersecurity - Basic skills in using MathWorks MATLAB™. 																											
Mother tongue	Italian																											
Foreign languages	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Production</th> <th colspan="2">Understanding</th> </tr> <tr> <th>Written</th> <th>Oral</th> <th>Written</th> <th>Oral</th> </tr> </thead> <tbody> <tr> <td>English</td> <td>C1/C2</td> <td>C1</td> <td>C2</td> <td>C2</td> </tr> <tr> <td>French</td> <td>B2</td> <td>B2</td> <td>C1</td> <td>C1</td> </tr> <tr> <td>Japanese</td> <td>B1</td> <td>B1</td> <td>B1</td> <td>B1</td> </tr> </tbody> </table> <p>Levels of the Common European Framework of Reference for Languages. A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user</p>					Production		Understanding		Written	Oral	Written	Oral	English	C1/C2	C1	C2	C2	French	B2	B2	C1	C1	Japanese	B1	B1	B1	B1
	Production		Understanding																									
	Written	Oral	Written	Oral																								
English	C1/C2	C1	C2	C2																								
French	B2	B2	C1	C1																								
Japanese	B1	B1	B1	B1																								

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, 17-Mar-2025

The DECLARANT
Dr. LUCA BALDELLI

Luca Baldelli