

## BIOGRAPHICAL SKETCH

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NAME: Laura Bonanni

POSITION TITLE: Associate Professor in Neurology

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
University G.d'Annunzio of Chieti-Pescara, Chieti, Italy	MD	07/1998	Medicine
University G.d'Annunzio of Chieti-Pescara, Chieti, Italy	Residency	11/2003	Neurology
University G.d'Annunzio of Chieti-Pescara, Chieti, Italy	PhD	11/2007	Neuroimaging

### A. Personal Statement

First name, Surname:	Laura, Bonanni		
Date of birth:	Oct, 31 <sup>st</sup> 1973	Sex:	F
Nationality:	Italian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	Scopus Author ID: 6603146272; ORCID ID: <a href="http://orcid.org/0000-0001-7443-9233">http://orcid.org/0000-0001-7443-9233</a> ; RESEARCH ID: K-3868-2016; Loop profile: 266910.		

### B. Positions and Honors

Year	Job title – Employer - Country
2018-	Associate Professor in Neurology at the University “G. D’ Annunzio” School of Medicine Chieti-Pescara, Italy. Neurologist at the Neurology Unit-Chieti Hospital. Chieti, Italy.
2017-	Visiting Professor at the Department of Neurology, University of Cincinnati, Ohio (USA).
2011-2012	Chair of the Neurology Clinic at Casa di Cura Villa Pini d’Abruzzo. Chieti, Italy
2008-2018	Assistant Professor in Neurology at the University “G. D’ Annunzio” School of Medicine Chieti-Pescara, Italy. Neurologist at the Neurology Unit-Chieti Hospital. Chieti, Italy.
2006-2008.	Outpatient neurological clinics of the Abruzzo Down Syndrome Association (Associazione Down della Regione Abruzzo, via Perugia, Pescara).
2001-2002	Visiting Scientist at University of California at Irvine- Department of Neurology. Irvine, CA, USA
Nov 2003 to May 2004	Visiting Scientist at Yale University- School of Medicine- Department of Endocrinology- Neuroscience Laboratory. New Haven, CT, USA
Aug 2007, 2008, 2009	Visiting Scientist at the Neurobiology laboratory of the Marine Biology Laboratory, Woods Hole, MA, USA.

**Professional Societies and Organizations:**

- Italian Neurology Society (SIN)
- Italian Neuroimmunology Society.
- Movement Disorder Society
- European Academy of Neurology
- Alzheimer’s Association USA
- European Society of Clinical Neurophysiology
- LIMPE-DISMOV Academy (Italy)

**Scientific boards**

- Member of the Steering Committee of the European DLB study group
- Program Chair of LBD-Professional Interest Areas (ISTAART-AAIC)
- Board Member of the Italian Society of Neurology-Dementia (Segretario nazionale dal 2020)
- National coordinator of the Italian DLB study group under the aegis of the Italian Society of Neurology-Dementia

- **C. Contributions to Science**

Author of 140 scientific papers in English in peer reviewed international journals; 3 scientific papers in Italian; 4 book chapters; more than 200 abstracts published as proceedings of International and National Conferences  
H index: 31, citations 3729.

**Reviewer for the following journals:**

Movement Disorders, Brain, Aging Clinical and Experimental Research, The International Journal of Neuroscience, PlosONE, Cortex, Journal of Neurology Neurosurgery and Psychiatry, Cell Death and Differentiation, Neurology, British Journal of Psychiatry, Journal of Alzheimer’s Disease, Cerebral Cortex, Dementia and Geriatric Cognitive Disorders, Medicine, Brain Research, Journal of Alzheimer’s Disease, biomolecules, Neurological Sciences, Alzheimer & Dementia journal.

**Grant Reviewer for:**

- UK Alzheimer Association,
- Medical Research Council (UK)
- Agence Nationale de la Recherche (France)
- Eu Joint Projects Neurodegenerative disease research- JPND
- National Institute of Health, USA (NIH)

**Editorial boards:**

Associate Editor of the Journal of Alzheimer’s disease  
Associate Editor of Biomolecules

**D. Additional Information: Research Support and/or Scholastic Performance****Project management experience**

Year	Project owner - Project - Role - Funder
2012-2015	Coordinator of a project funded by the Italian Ministry of Health ( grant young researchers 2007) 600.000 euros, on the study of Dementia with Lewy Bodies, including a neuroimaging, neurogenetical, neurochemical (peripheral biomarkers), neurophysiological, basic science (mitochondrial function) studies.
2014-2017	Study of mitochondrial function in PINK KO mice as part of a project on the study of PINK1 function in the brain, funded by the Italian Ministry of Health (grant young researchers 2009).
2015-2018	Coordinator of a research project funded by the Italian Ministry of Health (grant young researchers 2010): Frontal circuit dysfunction as a marker of dementia in parkinsonism (Project Code:GR-2010-2313418), 371.200 euros

2017	Co-investigator in JPND project entitled: Multi-centre cohort-studies in Lewy-body dementia: Challenges in harmonizing different clinical and biomarker protocols” within the EU Joint Programme for Neurodegenerative Diseases (JPND) (PI Dag Aarsland).
2017-	Co-investigator in the Italian study group for Frontotemporal Dementia, under the aegis of SINDem, coordinated by Barbara Borroni, University of Brescia.
2017-on going	Coordinator of the Italian DLB study group (under the aegis of SINDem, Italian Society of Neurology-Dementia).
2017	Co-investigator in the SRA-NED project 2017 (lead by Giovanni Frisoni)
2018-on going	Co-investigatore in a multicenter study of postural abnormalities in Parkinsonisms (in collaboration with University of Verona and University of Ancona).
2019 on going	Co-investigator in an Italian multicentre study on functional movement disorders, coordinated by University of Verona, under the aegis of LIMPE-DISMOV.
2017 on-going	Co-Investigator in a multicenter study on orthostatic hypotension neurophysiological and neuroimaging correlates in parkinsonisms (PI of the neurophysiological section) led by University of Cincinnati, Ohio, USA
2018-2019	Principal Investigator in a EEG study in DLB-MCI in collaboration with Mentis Cura (Reikijavik).
2020-on going	Coordinator of the research project funded by the Italian Ministry of Health “Dementia with Lewy bodies: a standardization of the diagnostic tools among the Italian Dementia Centers, 450.000 euros. Starting in 2019.
2019- on going	Co-investigator in PD-MIND IMI project.

#### - Supervision of students

MD and physiotherapy students	55	University of Chieti, Italy
Neurology Residents	15	University of Chieti, Italy

#### Invited speaker and organization of conferences

##### International conferences

1. Invited Speaker at Institute for Ageing and Health Newcastle University Wolfson Research Centre Campus for Ageing and Vitality, Newcastle University. Titolo della lettura: Dementia with Lewy Bodies phenotype: focus on tremor. Newcastle upon Tyne, UK, Oct 2011.
2. Invited lecture at Institute of Neuroscience, Newcastle University, Titolo della lettura: “Mitochondrial involvement in Parkinson’s disease pathogenesis: clues from PD animal models”. Newcastle upon Tyne, UK, ottobre 2011.
3. Invited speaker all’ ICGP meeting 2012. Title of the lecture: “Diagnostic utility and predictive value of EEG in DLB.” Siviglia, Spagna, Oct 2012.
4. Invited speaker al “5th Cognitive Day Venue: Domus Medica”, Slovenian Medical Chamber, Lubiana. Title of the lecture: “From thalamus to cortex: exploring the EEG cortical rhythms in dementia with Lewy Bodies.” Lubiana, Slovenia, May 2016.
5. Invited Speaker all’ International Pharmacology EEG Society (IPEG) Meeting & Training Course - 19th Biennial Conference. Titolo della lettura: “Cortical network reorganization in mild and prodromal Alzheimer disease: graph theory approach on resting state EEG recordings.” Nijmegen, Olanda, ottobre 2016.
6. Invited speaker presso Electrophysiology PIA (“EPIA”) Day 2016 in conjunction with the Alzheimer’s Association International Conference (“AAIC”). Titolo della lettura: “Comparing qEEG Biomarkers in Dementia due to Lewy Body, Alzheimer’s, and Parkinson’s Disease: Results of the European DLB Consortium.” Toronto, Canada, luglio 2016.
7. Invited speaker presso ICGP meeting 2016, Simposio su “Neuroimaging in Dementia with Lewy Bodies”. Titolo della lettura: “Thalamic involvement in cognitive and behavioral symptoms in Dementia with Lewy Bodies (DLB): Magnetic resonance evidence.” Atene, Grecia, ottobre 2016.
8. Invited speaker al Joint Symposium 3 - EANM/E-DLB 29th Annual Congress of the European Association of Nuclear Medicine – EANM’16., Simposio: Dementia with Lewy Bodies (DLB): What Have We Learned in the Last Years? Titolo della lettura: “The Concept of Prodromal Dementia of Lewy Body is Ongoing.” Barcellona, Spagna, ottobre 2016.
9. Invited speaker al Second International Meeting of the Milan Center for Neuroscience (NeuroMi), “Prediction and prevention of dementia: new hope”. Titolo della lettura: “Other dementias”. Milano, luglio 2016.
10. Invited Speaker a ISTAART Alzheimer’s Association Electrophysiology Professional Interest Area. Titolo della lettura: Multimodal EEG And Neuroimaging Biomarkers Of Alzheimer’s And Lewy Body Diseases. Londra, Regno Unito, luglio 2017.
11. Invited Speaker at Department of Neurology, University of Cincinnati, Ohio (USA), 28-29 agosto 2017.
12. Resident Didactics- Lewy Body Dementia. Department of Neurology, University of Cincinnati, Ohio (USA). 30 agosto 2017.

13. Invited Speaker alla Movement Disorder Video Session, Department of Neurology, University of Cincinnati, Ohio (USA). Titolo della lezione: Quantitative EEG in Cognitive and Movement Disorders: Unusual Cases. 30 agosto 2017.
14. Invited Speaker presso il Department of Neurology, University of Cincinnati, Ohio (USA). Titolo della lettura: "Quantitative EEG as a Diagnostic Tool for the Assessment of Neurodegenerative Diseases" 31 agosto 2017.
15. Invited Speaker a BaCI conference. Titolo della lettura: Multimodal EEG and Neuroimaging Biomarkers of Alzheimer's and Lewy Body Diseases. Berna, Svizzera settembre 2017.
16. Organizer of First Italian Conference on DLB: Lewy Body Dementia: new clinical and diagnostic perspectives- Chieti 22-23 febbraio 2018.
17. Invited Speaker a Blood Biomarker-based Diagnostic Tools for Early Stage Alzheimer's Disease (BBDIAG): Lettura di chiusura del Congresso: "At the border of Alzheimer's Disease: Clinical Features and Biomarkers of Dementia with Lewy Bodies". Roma Università La Sapienza 19-21 marzo 2018
18. Invited Expert a DLB Expert Group Meeting, sponsorizzato da GE healthcare. Londra 23 marzo 2018
19. Organizing Committee of the World Conference on Alzheimer and Parkinson Diseases. Tokyo, Japan, April 16-18 2018 <http://dementia.congressseries.com/home>
20. Invited speaker al teaching course della Movement Disorder Society- Poiana Brasov, Romania, 26-28 aprile 2018. Titolo: Lewy Body Dementia.
21. Organizer European DLB meeting, Lisbona, 17 giugno 2018.
22. Internal Course at GE healthcare, Bratto (BG), 5 luglio 2018. Lewy Body Dementia.
23. Invited speaker a simposio EPIA-ISTAART. Cortical excitability as revealed by cortical EEG biomarkers in patients with prodromal Alzheimer's Disease and Dementia with Lewy Bodies. Chicago, IL, USA 19 luglio 2018.
24. Chairperson and speaker al 17th European Congress on Clinical Neurophysiology,. Symposium: Neurodegenerative dementing disorders, brain over-excitation, and EEG signatures: preclinical and clinical evidence. Title of the presentation: Effects of dopamine depletion in the brain and abnormal cortical excitability as revealed by cortical EEG biomarkers in patients with Lewy Body diseases. Warsaw, June 5th, 2019
25. Chairperson and invited speaker at International Lewy Body Dementia Conference Las Vegas, Nevada 24 – 26 June 2019
26. Invited speaker at the symposium : Biomarkers in degenerative dementia: news and views from the
27. European Dementia with Lewy Body (DLB) Consortium". Title of the lecture: Neurophysiology:
28. EEG and videopolysomnography. 5th European Academy of Neurology-EAN Congress Oslo, Norway June 29- July 2, 2019
29. Invited speaker at: SINDem for juniors. 8th winter seminar on Dementia and Neurodegenerative Disorders. Title of the lecture: What's New in Lewy Body Disease? Brixen, 22-24 January, 2020.
30. Chairperson and speaker at the live symposium Biomarkers And Early Diagnosis Of DLB: New Findings. Alzheimer's Association International Conference. 29 July 2020 ONLINE
31. Chairperson at the LBD-PIA of ISTAART-AAIC Aug the 4th 2020 ONLINE

### **National Conferences**

1. Invited Speaker a Aggiornamenti sulla Malattia di Parkinson: strategie di intervento. 8 luglio 2006 Centro Adriatico di Pescara (PE).
2. Invited Speaker a La gestione terapeutica nel paziente con Malattia di Parkinson. Montesilvano (PE) 28 settembre 2007
3. Comunicazione orale al XXXIX congresso nazionale SIN 2008. nella sezione scienze di base: studies of inner and outer mitochondrial membrane components of putative cell death channel. 22 ottobre 2008
4. XXXV congresso nazionale LIMPE Salerno, 19/22 novembre 2008. sessione di presentazioni libere – progetto giovani. Studio delle componenti di membrana di un putativo canale mitocondriale legato alla morte cellulare in un modello animale di Malattia di Parkinson.
5. Invited Speaker a PD Forum. Clinico e paziente nella Malattia di Parkinson: la multidimensionalità nella pratica clinica. Titolo della lettura: la diagnosi differenziale. San Benedetto Del Tronto 7 dicembre 2012.
6. Invited Speaker a Giornata di aggiornamento in riabilitazione. Titolo della lettura: Parkinson: dalla diagnosi alla riabilitazione. Centro Universitario di Medicina dello Sport- Chieti. 18 gennaio 2014
7. Organizzazione del 2° Convegno Sezione Abruzzese SINDem. La gestione clinica e farmacologica del paziente affetto da Demenza. Fondazione "G. d'Annunzio" presso CE.S.I. Università "G. d'Annunzio" di Chieti-Pescara via Luigi Polacchi, Chieti Scalo. 25 novembre 2014.
8. Invited Speaker a Progetto Formativo "La Medicina di Genere 2 parte: Neurologia". Titolo della lettura: demenze (Ortona, Vasto, Chieti, Lanciano). Dicembre 2014
9. Organizzazione del 3° Convegno SINDEM Sezione Regionale Abruzzo Focus on Non-AD dementia Università G. d'Annunzio di Chieti-Pescara, 23 marzo 2015.
10. Invited speaker al X Congresso Nazionale SINDem. Simposio: Dementia with Lewy Bodies: Clinical and Diagnostic Issues. Titolo della lettura: Early diagnosis of Dementia with Lewy Bodies. Genova, 27 marzo 2015.
11. Invited speaker al Congresso Donne in Neuroscienze: Quanta strada ancora? Titolo della lettura: Demenza a Corpi di Lewy. San Benedetto del Tronto (AP) 15 maggio 2015.
12. Invited Speaker a Corsi di Diagnostica per Immagini Roma/Chieti 2015 Imaging Strutturale e funzionale del cervello anziano: dal "normale" al patologico. Titolo della lettura: dall'MCI alla Malattia di Alzheimer. presso ITAB Istituto di Tecnologie Avanzate Biomediche- Chieti 14-16 ottobre 2015.

13. Invited Speaker a Congresso: L'Inquadramento clinico del paziente con Parkinson: Dipartimento di Scienze Radiologiche, O.C. SS. Annunziata di Chieti. 11 dicembre 2015.
14. Invited Speaker a XI Congresso Nazionale SINDem 2016. Titolo della lettura: Italian LBD Network Diagnostic pathways of Lewy Body Dementia: from Parkinson's disease to Alzheimer's dementia. Firenze 17-19 marzo 2016.
15. Chairperson a Congresso Nazionale SINDem 2016. Simposio: New Directions in Lewy body dementia. Speaker Ian McKeith, Newcastle, Regno Unito. Firenze 17 marzo 2016.
16. Invited Speaker a Giornate Neurologiche Torinesi 2016. News that matter to Neurologists. Titolo della lettura: Lewy bodies dementia: new insights. Torino, 8-9 aprile 2016.
17. Invited Speaker a "Le Demenze: dalle terapie future e inquadramenti diagnostici ai nuovi aspetti organizzativi, sociosanitari e CDCD" Titolo della lettura: Criteri diagnostici della Demenza a Corpi di Lewy. San Benedetto del Tronto (AP) 10 giugno 2016.
18. Invited speaker al Congresso Ci sono nuove terapie nel parkinson? Discussione ed analisi delle nuove prospettive terapeutiche. Sala Convegni Ce.S.I. Università G. D'Annunzio – Chieti 9 Luglio 2016.
19. Invited speaker a XLVII Congresso Società Italiana di Neurologia. Corso D'aggiornamento A Numero Chiuso: I Criteri Diagnostici per le Demenze. Titolo della lettura: Demenza con corpi di Lewy e Parkinson. Venezia, 22-25 Ottobre 2016.
20. Invited speaker a X Convegno Il contributo dei centri per i disturbi cognitivi e le demenze nella gestione integrata dei pazienti. Istituto Superiore di Sanità. Titolo della lettura: Un gruppo italiano sulla demenza a Corpi di Lewy: attività ed i primi risultati. Roma, 25 novembre 2016.
21. Chairperson al XII Congresso Nazionale SINDem 2017. Simposio: Looking for the Neurophysiological Thalamocortical Reserve in Patients with Neurodegenerative Dementing Disorders Moderatori: L. Bonanni , Chieti - I. Meyvantsson , Reykjavic, Islanda. Relatore: C. Babiloni, Roma. Firenze 16-18 marzo 2017.
22. Invited speaker in qualità di coordinatrice Gruppo di Studio DLB a Riunione su Gruppi di Studio SINDem. XII Congresso Nazionale SINDem 2017 Firenze 16-18 marzo.
23. Invited speaker al Congresso Nazionale LIMPE-DISMOV. Corso di formazione Disturbi cognitivi nei Parkinsonismi. Titolo della lettura: Diagnosi differenziale delle demenze con parkinsonismo. Verona 17-19 maggio 2017.
24. Invited speaker a Corso di aggiornamento Il disturbo del comportamento in sonno REM (RBD): ruolo strategico nelle demenze. Titolo della lettura: Inquadramento diagnostico della demenza a corpi di Lewy: ruolo dell'RBD Firenze, 15 giugno 2017.
25. Invited speaker a Congresso Donne in Neuroscienze. Titolo della lettura: Le epilessie nelle demenze. San Benedetto del Tronto (AP) 1-2 dicembre 2017.
26. Invited speaker al XIII Congresso Nazionale SINDem 2018. Titolo della lettura: Impatto della diagnosi precoce sulla gestione clinica dei pazienti con Demenza a corpi di Lewy.
27. Chairperson sessione poster al XIII Congresso Nazionale SINDem 2018. Firenze, 19-21 aprile 2018.
28. Speaker in qualità di coordinatrice Gruppo di Studio DLB a Riunione su Gruppi di Studio SINDem. XIII Congresso Nazionale SINDem-Firenze 21 aprile 2018.
29. Invited Speaker a Congresso FOCUS ON fluctuations in alpha-synucleinopathies: from movement to cognition. Titolo della lettura: Fluttuazioni nello spettro delle alfa-sinucleinopatie. Brescia, 20 giugno 2018.
30. Invited speaker at Istituto Superiore di Sanità. Title: Ripensare la diagnosi di demenza a corpi di Lewy alla luce dei nuovi criteri diagnostici. At the Conference: IL CONTRIBUTO DEI CENTRI PERI DISTURBI COGNITIVI E LEDEMENTZENELLA GESTIONE INTEGRATADEIPAZIENTI. ISS, Rome , Nov 15, 2018.
31. Invited Speaker at the conference SONNO E PATOLOGIE NEUROLOGICHE: update clinico e terapeutico" Title: Pattern EEG in sonno prodromici della demenza di malattia di Parkinson e il morbo di Alzheimer. 30 NOVEMBRE 2018 – VICENZA.
32. Invited speaker for Magistral Lecture at Riunione annuale SINUmbro-Marchigiana. Title: Demenza a corpi di Lewy: aggiornamenti fisiopatogenetici. Perugia, December 14, 2018.
33. Chairperson and speaker at Symposium Controversies: The prodromal stage of Parkinson's Disease/Dementia with Lewy Bodies and Alzheimer's disease: defining the boundaries for tailored therapeutic options. Title: The clinical use of PET and SPECT in DLB vs AD differential diagnosis. Chairperson of the session: Biomarkers in dementia with Lewy bodies (DLB): news and views. XIV Congresso Nazionale SINDem-Firenze 21 aprile 2018.
34. Invited speaker at the conference: INTEGRAZIONE DEI MIGLIORI PERCORSI E PRATICHE CLINICOASSISTENZIALI A FAVORE DEL PAZIENTE CON DEFICIT COGNITIVI" Title: Lewy Body Dementias: lo stato dell'Arte. Treviso, 8 maggio 2019.
35. Invited speaker at the conference: INTEGRAZIONE DEI MIGLIORI PERCORSI E PRATICHE CLINICOASSISTENZIALI A FAVORE DEL PAZIENTE CON DEFICIT COGNITIVI" Title: Disordini del movimento e decadimento cognitivo, un continuum? Treviso, 16 ottobre 2019.
36. Chairman at the XV National Congress of SINDem. 5-7 november 2020 Title of the session: Research criteria for the diagnosis of prodromal DLB in the context of alpha-synucleinopathies.