



# 15<sup>th</sup> International RBD Study Group meeting

17 • 19 March 2022

RAVENNA- ITALY

*Biblioteca Classense*

Under the auspices of



Associazione Italiana  
di Medicina del Sonno



Comune di **Ravenna**



SERVIZIO SANITARIO REGIONALE  
EMILIA-ROMAGNA  
Azienda Unità Sanitaria Locale di Bologna

Istituto delle Scienze Neurologiche  
Istituto di Ricovero e Cura a Carattere Scientifico



SERVIZIO SANITARIO REGIONALE  
EMILIA-ROMAGNA  
Azienda Unità Sanitaria Locale della Romagna



FONDAZIONE FLAMINIA  
PER L'UNIVERSITÀ  
IN ROMAGNA



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA



UNIMORE  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA



UNIVERSITÀ  
di **VERONA**

Dipartimento  
di **NEUROSCIENZE,  
BIOMEDICINA E MOVIMENTO**

## COMMITTEE

### LOCAL ORGANIZERS

Chair - **Giuseppe Plazzi**, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Modena and Reggio Emilia

Co-Chair - **Elena Antelmi**, University of Verona

**Luigi Ferini-Strambi**, Salute e Vita University, Milan

**Raffaele Ferri**, Oasi Research Institute - IRCCS, Troina (EN)

**Monica Puligheddu**, University of Cagliari

**Fabio Pizza**, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Bologna

**Francesca Ingravallo**, University of Bologna

**Raffaele Lodi**, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Bologna

**Rocco Liguori**, IRCCS Istituto delle Scienze Neurologiche di Bologna; University of Bologna

**Vincenzo Donadio**, IRCCS Istituto delle Scienze Neurologiche di Bologna

**Christian Franceschini**, University of Parma

**Alessandro Silvani**, University of Bologna

### SCIENTIFIC SECRETARY

**Francesca Cavalli**, University of Bologna

**Francesco Biscarini**, University of Bologna

**Emanuela Postiglione**, S.Maria delle Croci Hospital, Ravenna; University of Modena and Reggio Emilia

### IRBDSG BOARD MEMBERS

Elected President: **Ron Postuma**, McGill University, Canada.

Past President: **Brad Boeve**, Mayo clinic, USA

Secretary: **Karel Sonka**, Charles University, Czech Republic

Treasurer: **Geert Mayer** Philipps-Universität Marburg, Germany

President elect **Aleks Videnovic**, Harvard University, Massachusetts General Hospital, USA

Secretary elect **Ambra Stefani**, Medical University Innsbruck, Austria

Treasurer elect **Dario Arnaldi**, University of Genoa, Italy

# PROGRAM

## WEDNESDAY, 16 MARCH 2022

- 14:00 PRIVATE SHUTTLE BUS FROM ROME TO RAVENNA (for participants who confirmed the service). PICK UP: NUVOLA CONFERENCE CENTER (Viale Asia 44 – Rome)
- 20:15 WELCOME DINNER, RESERVED TO DELEGATES (NOT TRAINEES)  
Location: NH Hotel \_ Piazza Mameli 1 – Ravenna Italy

## THURSDAY, 17 MARCH 2022

### 09:00 WELCOME AND INTRO TO MEETING

**Ron Postuma** (Canada)

**Giuseppe Plazzi** (Italy)

**Raffaele Lodi** (Italy)

### 09:15 NEUROIMAGING

Moderator: **Raffaele Ferri** (Italy)

### 09:15 RECENTLY PUBLISHED LITERATURE

**Michele Hu** (MRI) (UK) and **Dario Arnaldi** (PET and SPECT) (Italy)

### 09:45 DATA BLITZ

**Marta Bianciardi** (USA): Brainstem structural connectivity changes in in-vivo isolated REM sleep behaviour disorder by 7 Tesla MRI

**Shady Rahayel** (Canada): Brain atrophy in iRBD is shaped by gene expression and structural connectivity

**Beatrice Orso** (Italy): Identification and validation of a brain glucose conversion pattern in iRBD

**Stanislav Marecek** (Czech Republic): Comparison of DAT-SPECT analysis using BASGAN software and individual MRI-guided approach in correlation with motor markers in iRBD

**Shady Rahayel** (Canada): Brain-clinical perfusion patterns predicting conversion phenotypes in iRBD

**Zsóka Varga** (Czech Republic): Voxel-based analysis of substantia nigra magnetic susceptibility in iRBD and Parkinson's disease

### 10:45 BREAK

### 11:00 DISCUSSION - COMMON PROJECTS IMAGING #1

Moderators: **Michele Hu** (UK) and **Dario Arnaldi** (Italy)

MRI project

DAT-SPECT project

FDG-PET project

### 11:45 WORKING GROUPS MEETING #1 – COMBINED IN ALL CASES NEUROPHYSIOLOGY, IMAGING

### 12:30 LUNCH

### 13:15 SESSION

Moderator: **Fabio Pizza** (Italy)

### 13:15 REM SLEEP ATONIA AND NARCOLEPSY – **Elena Antelmi** (Italy)

### 13:30 DATA BLITZ:

**Jung, Young-Ji** (South Korea): Clinical significance of OSA in RBD

**Eemil Partinen** (Finland): RBD and COVID-19

13:50 NEUROPHYSIOLOGY / PSG

Moderator: **Alex Iranzo** (Spain)

13:50 RECENTLY PUBLISHED LITERATURE

**Poul Jørgen Jennum** (Denmark)

14:20 DATA BLITZ

**Matteo Cesari** (Austria): New automatic approaches to RWA quantification

**Emmanuel During** (USA): Automated diagnosis of isolated REM sleep behavior disorder (iRBD) during single night in-lab video-polysomnography (PSG) using computer vision

**Pavla Peřinová** (Czech Republic): RWA in iRBD, PD and control subjects

**Emmanuel During** (USA): Ambulatory detection of isolated RBD using nocturnal wrist actigraphy and a machine learning method

**Andreas Brink – Kjaer** (Denmark): End-to-end Deep Learning of Polysomnograms for Classification of REM Sleep Behavior Disorder

15:10 BREAK

15:25 EPIDEMIOLOGY OF RBD

Moderator: **Marco Zucconi** (Italy)

15:25 RECENTLY PUBLISHED LITERATURE

**Michele Terzaghi** (Italy)

15:55 DATA BLITZ

**Calogero E. Cicero** (Italy): A population-based assessment of the prevalence of isolated RBD in Southern Italy (Catania, Sicily)

**Carolyn Schafer** (Switzerland): REM Sleep Behavior Disorder in the Bernese Sleep Database - from a Retrospective to a Prospective Study

**William Yao** (Canada): Prevalence and Clinical Determinants of Trauma-associated Sleep Disorder among Canadian Population: a Nation-wide Study in the CLSA

16:25 BASIC SCIENCE

Moderator: **Alessandro Silvani** (Italy)

16:25 RECENTLY PUBLISHED LITERATURE

**Pierre Luppi** (France)

17:10 - 19:10 WORKING GROUPS MEETING #2. – EPIDEMIOLOGY

20:00 DINNER AT THE TYPICAL RESTAURANT CA' DE VÈN

**FRIDAY 18 MARCH 2022**

09:00 GENETICS OF RBD

Moderator: **Karel Sonka** (Czech Republic)

09:00 RECENTLY PUBLISHED LITERATURE

**Ziv Gan-Or** (Canada)

09:30 DATA BLITZ

**Yuri Sosero** (Canada): Genetic of RBD

**Emma Somerville** (Canada): Genetic of RBD

**Emmanuel Mignot** (USA): HLA and tau in PD and AD, an opportunity for RBD?

10:00 WORKING GROUPS MEETING #3 – GENETICS

10:30 BREAK

10:45 BIOMARKERS

Moderator: **Elena Antelmi** (Italy)

10:45 RECENTLY PUBLISHED LITERATURE

**Wolfgang Oertel** (Germany)

11:15 DATA BLITZ

**Mariana Fernandes** (Italy): CSF biomarkers in isolated REM sleep behavior disorder

**Vincenzo Donadio** (Italy): Parkin p-alpha-syn RT-QuiC in skin and CSF

**Dario Arnaldi** (Italy): HDEEG functional connectivity measures of neurodegeneration in iRBD

**Carmen Calvello** (Italy): Neurophysiological responses of the brainstem in patients with isolated REM sleep behavior disorder

**Jan Rusz** (Czech Republic): Linguistic Biomarkers in Isolated Rapid Eye Movement Sleep Behavior Disorder

12:05 WORKING GROUPS MEETING #4 - BIOMARKERS

13:35 LUNCH

14:00 CLINICAL

Moderator: **Isabelle Arnulf** (France)

14:00 RECENTLY PUBLISHED LITERATURE

**Ambra Stefani** (Austria)

14:30 DATA BLITZ

**Isabelle Arnulf** (France): RBD: a window onto emotions processing during REM sleep

**Maria Carolina Vacca** (Italy): Does MCI matter in the diagnostic work-up of patients with isolated REM sleep behavior disorder?

**Ambra Stefani** (Austria): Low specificity of screening questionnaires for REM sleep behavior disorder

**Cristina Garcia Campos** (UK): The OPDC smartphone test for PD and RBD motor symptom

15:10 WORKING GROUPS MEETING #4 – CLINICAL

16:00 ASSEMBLY OF MEMBERS

Trainee networking event – during business meeting

16:55 - 17:55 COMMON PROJECTS #2 – CLINICAL/TRIALS

Moderator: **Giuseppe Plazzi** (Italy), **Aleks Videnovic** (USA), **Francesca Ingravallo** (Italy)

- Sample size study
- RBD severity scale
- Ethics discussion
- Disclosure and other issues
- Incorporating patient communities (patient advocacy groups) – separate session, or with disclosure, depending upon time

20:30 CONCERT IN AUDITORIUM SAN ROMUALDO

by **Luigi Cherubini Youth Orchestra**

**Giovanni Sollima** conductor and cello solo

**Gaetano Ciandelli** Concert for cello arranged by G. Sollima

**Giovanni Sollima** Fecit Neap 17

**Franz Joseph Haydn Concert n. 2** for cello and orchestra in D major Hob.VIIb:2

21:30 COCKTAIL DINNER AT THE CIRCOLO DEI FORESTIERI

## SATURDAY 19 MARCH 2022

### 09:00 TREATMENT AND TRIALS

Moderator: **Luigi Ferini Strambi** (Italy)

### 09:00 RECENTLY PUBLISHED LITERATURE

**Aleks Videnovic** (USA)

### 09:30 DATA BLITZ

**Emmanuel During** (USA): Results of a RCT evaluating the efficacy of sodium oxybate in treatment-resistant RBD

**Jiří Nepožitek** (Czech Republic): Relation between the severity of iRBD behavioral manifestations and the development of the synucleinopathy

**Monica Puligheddu** (Italy): The “FarPresto study”: Preliminary results from the Italian dataset of iRBD

**Yo-El Ju** (USA): Updates from the NAPS consortium

### 10:10 COMMON PROJECTS #3

Moderators: **Wolfgang Oertel** (Germany), **Monica Puligheddu** (Italy), **Elena Antelmi** (Italy)

- Registry discussion (Italy)
- Combining grants/cohorts (NAPS, European, Italian, etc). – organization
- Discussion of best overlapping biomarkers / clinical markers (common to various projects)

### 10:50 BREAK

### 11:10 WORKING GROUP FINAL MEETING

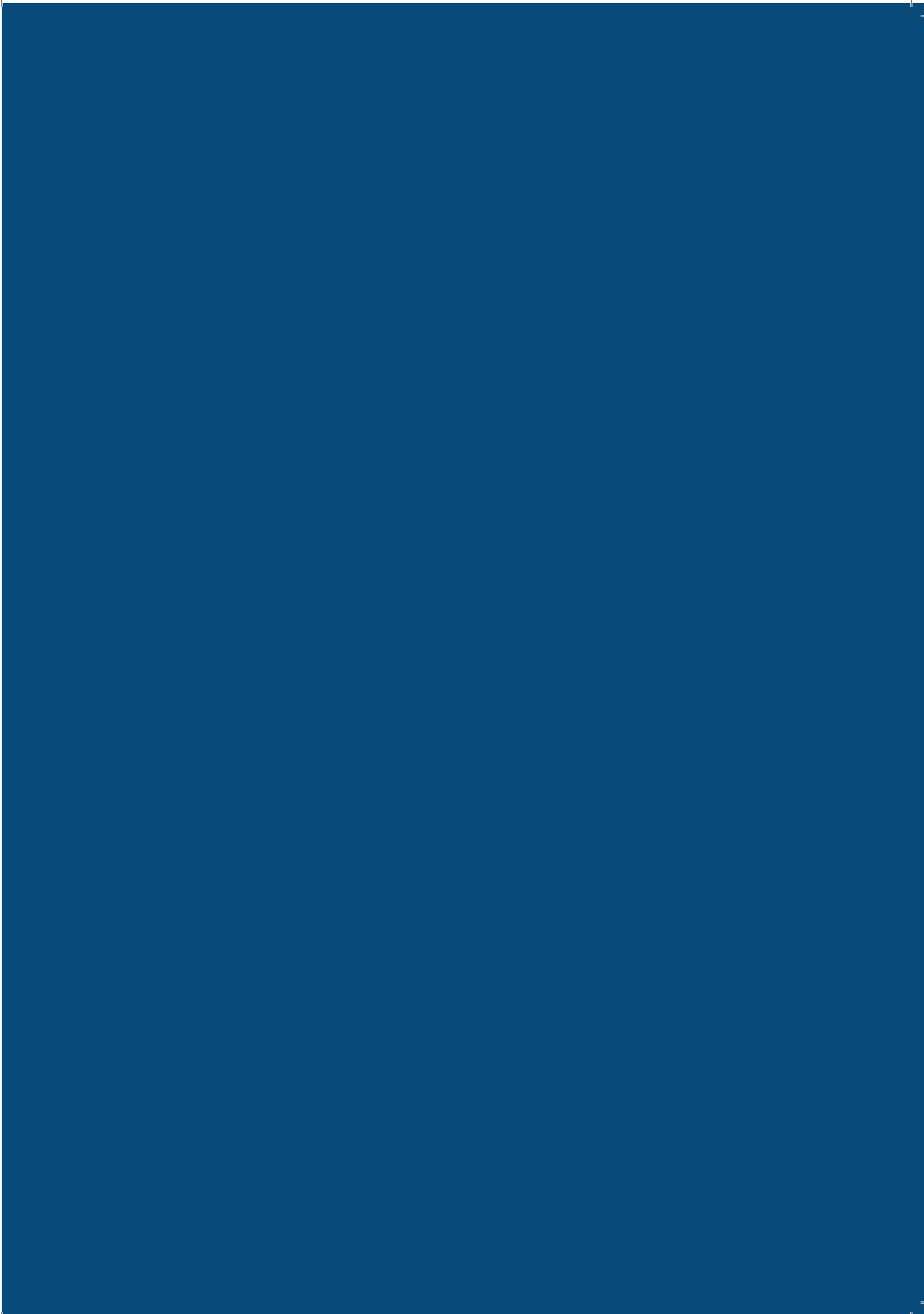
(Treatment and Trials, plus open session combined, along with updates from networking events, etc.)

### 12:20 GENERAL DISCUSSION

(future directions of web site, future directions of RBD, next meeting, etc) - Ron Postuma and Aleks Videnovic

### 13:00 END OF MEETING & LIGHT LUNCH

### 14:00 PRIVATE SHUTTLE BUS FROM RAVENNA TO BOLOGNA (for participants who confirmed the service).



A special thank to:



ORGANIZING SECRETARIAT



Viale Aldini 222/4 – 40137 Bologna – Italy  
Tel. + 39 051 6564300 – congressi@avenuedia.eu – www.avenuedia.eu