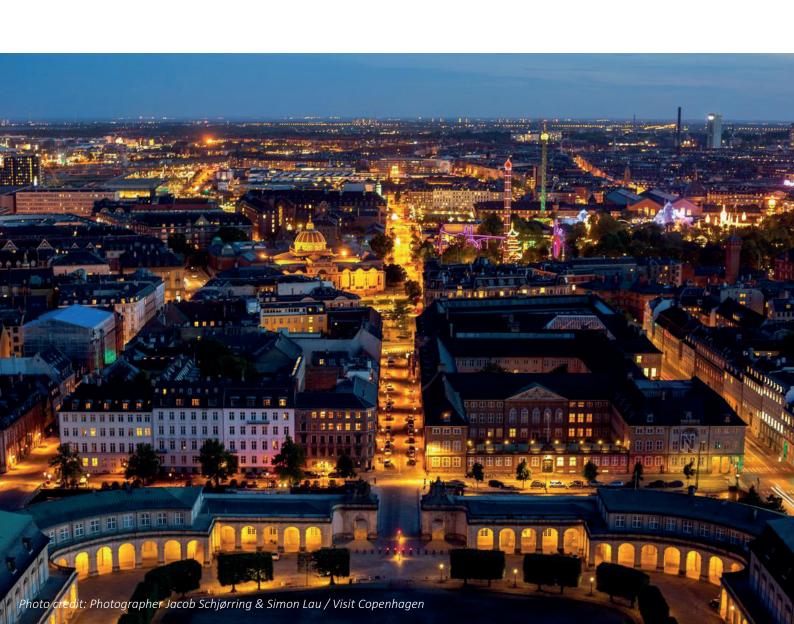


13th Symposium of International REM Sleep Behavior Study Group (IRBDSG)

# **PROGRAM**



SYMPOSIUM INFO SOCIAL EVENTS

### **Symposium Venue**

The symposium will take place at the Phoenix Hotel Copenhagen for all days. (www.phoenixcopenhagen.com)

Plenary Room: Frederik V Salon (basement)

Food and beverages: Foyer in front of Frederik V Salon (basement)

Poster boards: Frederik III (basement)

Breakout sessions: Decided by the working group leaders but 2 rooms are reserved: Frederik V (basement) and

Gyldensteen (Ground floor)

# Registration desk opening hours

Thursday October 3, 2019: 17:00 - 19:00 Friday October 4, 2019: 08:00 - 18:00 Saturday October 5, 2019: 08:30 - 13:00

# Wi-Fi access in Phoenix Hotel Copenhagen

Network name: WPA

Password: Phoenixcopenhagen

#### **Lunch and refreshments**

Light breakfast, lunch and coffee servings are included in the registration fees and served during the symposium period (evening on the 3rd to lunch time on the 5th). The serving time can be found in the detailed program.

#### **Badges**

Name badge is required for accessing lectures, lunch and coffee servings, exhibition area and social events. Please wear your name badge throughout the symposium.

# **City information**

Official tourist information site: www.visitcopenhagen.com Insider's guide to Copenhagen: http://www.aok.dk/english Plan your trip in Copenhagen: http://www.journeyplanner.dk/

# **Emergency contacts**

Emergency: 112

Police emergency: 114

Copenhagen Police: +45 3314 8888

Medical assistance: 118

#### **Congress agency**

The Meeting Planners www.meetingplanners.dk reg@meetingplanners.dk Telephone: +45 6021 7421

#### **Welcome Dinner**

Date/Time: 19:00-21:00, October 3, 2019

Location: Von Plessen Restaurant, Phoenix Hotel Copenhagen (basement)

Badge: Please remember to bring your name badge

#### **Conference Dinner**

Date/Time: 19:00, October 4, 2019

Location: Von Plessen Restaurant, Phoenix Hotel Copenhagen (basement)

Badge: Please remember to bring your name badge

#### **Social Excursion**

Date/Time: 14:00-16:30, October 5, 2019 Meeting point: Phoenix Hotel Copenhagen lobby

Info: 2.5 hours walking tour with English speaking guides.

Please dress after the weather and bring the necessary gear in case of the rain.

Badge: Please remember to bring your name badge

Pre-registration is required for all social events. Please contact the registration desk if you have not signed up.

# **ABSTRACT BOOK**

PDF abstract book can be downloaded online: www.irbd2019.dk (under "Program" page)

Log-in information is sent to symposium delegates and is required for accessing the book.



Section   Sect						
Plane   Plan		•			A brain signature of prodromal dementia with Lewy bodies	- Shady Rahayel
Public Public   Public Publi	DI 6				Patterns of cortical thickness in idiopathic RBD: a cluster analysis study	- Jean-Francois Gagnon
Position and Position   Positio	•		- Dario Arnaldi		PE2I-PET tracer in RBD	- Rune Frandsen
Chalmans workspread	09:45 - 10:00	Break				- Junghwan Shin
Noting and potential production with this is a binomarker, a surrogate marker or a progression of whitched in Mights					, , , , , , , , , , , , , , , , , , , ,	- Masayuki Miyamoto
Review and participation   Republic R	10.00 - 10.04	Introduction: What is a biomarker, a surrogate marker or a progression	- Wolfgang Oertel		in idiopathic rapid eye movement sleep behavior disorder	
Pala Pala Pala Pala Pala Pala Pala Pal	10.00		Wongang Ochter			, ,
Para	10:05 - 10:25	Autonomic biomarkers in prodromal RBD	- Mitchell Miglis		Characterization of the recting state (MDI global signal in DDD	Time other Ellmoore
A A Year Follow Up of 18FJPG-PET Parkinson's Disease-Related Metabolic Patients  A 4 Year Follow Up of 18FJPG-PET Parkinson's Disease-Related Metabolic Patients  A 4 Year Follow Up of 18FJPG-PET Parkinson's Disease-Related Metabolic Patients  Rhythiric disorders in idiopathic RBD: a potential new marker for future PD7	10:25 - 11:00	Data blitz			Characterization of the resting state finkli global signal in RBD	- Timothy Elimore
Paragrams   Para		(4 min presentation + 1 min discussion each)		11:55 - 12:00	Open discussion	
A 4-Year Follow-Up of [18F]FDG-PET Parkinson's Disease-Related Metabolic Brain Pattern Expression in a Cohort of 20 REM Sleep Behavior Disorder Patents  Rhythmic disorders in idiopathic RBD: a potential new marker for future PD? - Valerie Cochen de Cock Simultaneous tronic and phasic RPMA best predicts early phenoconversion to neurodegenerative disease in idiopathic RBD: a potential new marker for future PD? - Valerie Cochen de Cock Simultaneous tronic and phasic RPMA best predicts early phenoconversion to neurodegenerative disease in idiopathic RBD and periodic limin movement disorder.  Bomarkers for REM sleep behavior disorder in idiopathic REM sleep behavior disorder in idiopathic REM sleep behavior disorder versus secondary RBD and periodic limin movement disorder.  A machine learning approach to identify Parkinson's disease based on sleep spindle characteristics and to investigate the progression of IRBD patients to alpha-synuclanopathies disorder.  Into 1130 - 1			- Dallah Yoo			
Right Patients Right Patients Right Right Expression in a Cohort of 20 REM Sleep Behavior Disorder Patients Right		bellaviol disorder		12.00 - 13.00		
Patients    Patients   Working Group: Biomarkers, Inaging, Clinical, Epidemiology (Plenary Room (Working Group): Enament & Trials, Basic Science, Neurophysiology)   Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Room Good (Working Group): Teatment & Trials, Basic Science, Neurophysiology (Plenary Session neurophysiology): Plenary Session (Plenary Session (Plenary Session Strial by posters presenters to stand by posters		·	- Rosalie Kogan		Warking Crouns	Location
Rhythmic disorders in idiopathic RBD: a potential new marker for future PD7   Valeria Cochen de Cock   13:00 - 14:00   Lunch & Learn   Buffet lunch and poster presentations at Frederik III and it's foyer (both in the cellar floor)   13:00 - 14:00   Buffet lunch and poster presentations at Frederik III and it's foyer (both in the cellar floor)   13:00 - 14:00   Buffet lunch and poster presentations at Frederik III and it's foyer (both in the cellar floor)   13:00 - 14:00   14:00		·				
Simultaneous tonic and phasic RWA best predicts early phenoconversion to neurodegenerative disease in idiopathic RBD.  Biomarkers for RBM sleep behavior disorder in idiopathic ABD add nambered poster presenters to stand by posters  Biomarkers for RBM sleep behavior disorder in idiopathic ABD and periodic limb movement disorder.  A machine learning approach to identify Parkinson's disease based on sleep spindle characteristics and to investigate the progression of IRBD patients to alpha-synucleinopathies  Interview of the interv						Room Gyldensteen
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Blomarkers for REM sleep behavior disorder in idiopathic and narcoleptic patients. 8   Skin biopsy: a sensitive and specific biomarker for idiopathic REM sleep behavior disorder versus secondary RBD and periodic limb movement disorder.   Plenary Session   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlation   14:00 - 14:45   Cognitive dysfunction in RBD: qualitative aspects and clinicopathologic correlates of REM Sleep Behavior Disorder in the Alexandra   15:05 - 15:40   Data blitz   Clinical and Pathological Correlates of REM Sleep Behavior Disorder in the Mild Cognitive Impairment and Dementia Stages of Lewy Body Disease   Subtle gait and balance impairments occur in idiopathic REM Sleep Behavior   Clinical and Pathological Correlates of REM Sleep Behavior Disorder   Clinical and Pathological Correlates of REM Sleep Behavior Disorder   Clinical and Pathological Correlates of REM Sleep Behavior Disorder   Clinical and Pathological Correlates of REM Sleep Behavio					Buffet lunch and poster presentations at Frederik III and it's foyer (both in the ce	llar floor)
Plenary Session Skin bilopsy: a sensitive and specific biomarker for idiopathic REM sleep behavior disorder versus secondary RBD and periodic limb movement disorder.  A machine learning approach to identify Parkinson's disease based on sleep spinidle characteristics and to investigate the progression of IRBD patients to alpha-synuclion pathles  Imaging Working Group Chairman: Dario Arnaldi  Into - 11:05 - 11:55 Introduction Introduction Introduction Introduction Introduction Introduction Introduction Interpretation + 1 min discussion each) Introduction Intro		Diamarkars for DEM sloop behavior disorder in idiopathic and parceleptic	- Elena Antelmi			
Skin biopsy: a sensitive and specific biomarker for idiopathic REM sleep behavior disorder versus secondary RBD and periodic limb movement disorder.   Clinical Working Group A machine learning approach to identify Parkinson's disease based on sleep spindle characteristics and to investigate the progression of iRBD patients to alpha-synucleinopathies   Lana Krumm						
behavior disorder.    Clinical Working Group		& Skin biopsy: a sensitive and specific biomarker for idiopathic REM sleep				- Brad Boeve
A machine learning approach to identify Parkinson's disease based on sleep spindle characteristics and to investigate the progression of iRBD patients to alpha-synucleinopathies    Imaging Working Group Chairman: Dario Arnaldi		behavior disorder versus secondary RBD and periodic limb movement	- Lana Krumm			
A machine learning approach to identify Parkinson's disease based on sleep spindle characteristics and to investigate the progression of iRBD patients to alpha-synucleinopathies    1445-1505   RBD - a neurodevelopmental perspective   1445-1500		disorder.		Clinical Work	ting Group	
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Chairman: Dario Arnaldi (4 min presentation + 1 min discussion each)  11:00 - 11:05  Introduction  Clinical and Pathological Correlates of REM Sleep Behavior Disorder in the Mild Cognitive Impairment and Dementia Stages of Lewy Body Disease  11:05 - 11:55  Data blitz  (4 min presentation + 1 min discussion each)  Clinical and Pathological Correlates of REM Sleep Behavior Disorder in the Mild Cognitive Impairment and Dementia Stages of Lewy Body Disease  Subtle gait and balance impairments occur in idiopathic REM Sleep Behavior Disorder  Subtle gait and balance impairments occur in idiopathic REM Sleep Behavior Disorder  Impairment and REM Sleep Behavior Disorder with altered functional connectivity and brain microstructure  Altered resting-state thalamo-occipital connectivity is associated with cognition in idiopathic rapid eye movement sleep behavior disorder  Altered resting-state thalamo-occipital connectivity is associated with cognition in idiopathic rapid eye movement sleep behavior disorder  Cerebral metabolic correlates of RSWA and slow wave sleep in isolated RBD  - Andrea Galbiati  Reduced dopamine transporter uptake predicts short-term transition to Lewy body disease in Japanese patients with idiopathic rapid eye movement sleep  - Tomoyuki Miyamoto	Imaging Working Group			15:05 - 15:40	Data blitz	
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Inpairment and REM Sleep Behavior Disorder  Altered resting-state thalamo-occipital connectivity is associated with cognition in idiopathic rapid eye movement sleep behavior disorder  Cerebral metabolic correlates of RSWA and slow wave sleep in isolated RBD  Andrea Galbiati  - Zuzana Nedelska  - Zuzana Nedelska  Impaired visual tracking in REM sleep behavior disorder with altered functional connectivity and brain microstructure  - Jung-lck Byun  - Jung-lck Byun  - Jung-lck Byun  - Pung-lck Byun  - Pung-lck Byun  - Reduced dopamine transporter uptake predicts short-term transition to Lewy body disease in Japanese patients with idiopathic rapid eye movement sleep		(4 min presentation + 1 min discussion each)				,
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body disease in Japanese patients with idiopathic rapid eye movement sleep					Brief Smell Identification Test Performance in RBD, DLB and AD	- Leah Forsberg

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# **PROGRAM FRIDAY, OCTOBER 4**

REM sleep behavior disorder (RBD) and REM sleep without atonia (RWA) - Larissa Zimansky are progression markers in Parkinson's disease (PD) patients: data from the DeNoPa cohort Evolution of prodromal Parkinson's disease and dementia with Lewy bodies: a - Ron Postuma prospective study 15:40 - 15:45 Open discussion 15:45 - 16:00 Break **Epidemiology Working Group** Chairman: Yun-Kwok Wing 16:00 - 16:08 Future epidmiological studies on RBD - Markku Partinen 16:08 - 16:15 **Prodromal RBD** - YK Wing Data blitz 16.15-16.55 (4 min presentation + 1 min discussion each) Is Trauma-associated Sleep Disorder a Sub-form REM Sleep Behavior Disorder? - Chun Yao UMRBDQ in post-traumatic stress disorder (PTSD) population - Don Bliwise Trauma-related sleeping disorder vs. iRBD - Renata Riha Prevalence of REM sleep behavior disorder in major depression - Jing Wang Prevalence of REM Sleep Behavior Disorder in Sun City, Arizona - David Shprecher Morbidity, mortality and conversion in the Danish RBD population - Cresta Asah Update of studies on RBD in Parkinson related to mortality - Eemil Partinen RBD GWAS - combining data from IRBDSG, 23andMe and IPDGC - Ziv Gan-Or 16:55 - 17:00 Open discussion **Treatment & Trials Working Group** Chairman: Aleksandar Videnovic - Aleksandar Videnovic 17:00 - 17:10 Introduction and presentation of updated white paper on recommendations for clinical trials in RBD **NAPS Consortium: Overview and progress** - Yo-El Ju 17:10 - 17:20 17:20-18.00 Data blitz (6 min presentation + 2 min discussion each) REMeDio: a proof-of-concept neuroprotection study for prodromal - Dario Arnaldi synucleinopathies Efficacy of melatonin versus clonazepam for patients with idiopathic REM - Jung-Ick Byun sleep behavior disorder.

Comparison of motor tests with UPDRS part 3 &

Orthostatic hypotension protocols

Sodium oxybate in patients with isolated RBD: long-term follow-up

- Giuseppe Plazzi

Neuropathology of RBD

(discussion of obtaining autopsy in RBD)

- David Shprecher

- Brad Boeve

**Business Meeting** 

All members welcome to attend

18:00 - 19:00 • Finances update

- Election of new board members
- Discussion of working groups and leaders' roles
- Discussion of membership process
- Selection of 2020 meeting location and host(s)
- Other topics TBD

from 19:00 **Conference Dinner at Restaurant Von Plessen** 

Pre-registration is required.

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- Yo-El Ju

08:30 - 09:00 08:30 - 14:00	Light breakfast is served at the symposium exhibition area Registration desk is open	
ы с :		
<b>Plenary Sessi</b> 09:00 - 09:45	on Pathological Alpha-Synuclein spread in Lewy Body Disease – Seeding is Believing	- Kelvin Luk
09:45 - 10:00	Break	
<b>Basic Science</b> Chairman: Joh	Working Group n Peever	
10:00 - 10:05	Introduction	- John Peever
10:05 - 10:49	<b>Data blitz</b> (8 min presentation + 3 min discussion each)	
	Circuits mediating REM sleep and REM atonia	- Jimmy Fraigne
	Selective neuronal spread of alpha-synuclein pathology from the pedunculopontine nucleus	- Marten Henrich
	Lewy pathology in the REM sleep circuit triggers REM sleep behaviour disorder in mice	- Russell Luke
	Alpha-synuclein transport from noradrenergic locus coeruleus neurons to the nucleus ambiguus and its target esophagus	- Bolam Lee
10:49 - 11:00	Panel discussion: Mechanisms of synucleinopathy in RBD Discussants: Kelvin Luk, John Peever, Ron Postuma, Michael Silber	
<b>Neurophysio</b> Chairman: Pou	logy Working Group ul Jennum	
11:00 - 11:10	Introduction: New neurophysiologic frontiers in RBD	- Poul Jennum
11:10 - 11:25	Facilitatory/inhibitory intracortical imbalance in REM-sleep Behavior Disorder: early electrophysiological marker of neurodegeneration	- Raffele Ferri
11:25 - 11:55	Data blitz (4 min presentation + 1 min discussion each)	
	Sleep without atonia correlates with abnormal vestibular-evoked myogenic potentials in isolated REM sleep behavior disorder	- Monica Puligheddu
	A data-driven model to identify RBD and to predict its progression in Parkinson's disease based on sleep EEG and EOG signals	- Matteo Cesari
	Abnormal slow oscillation activity during non-REM sleep in patients with idiopathic REM sleep behavior disorder (RBD)	- Ki-Young Jung
	Actigraphic Screening for Rapid Eye Movement Sleep Behavior Disorder	- Kemlink, David
	Evaluation of micro-sleep stability in patients with neurodegeneration using an automated algorithm	- Maria-Lucia Muntean

Using machine learning and measures of nocturnal eye movements to predict the probability of Parkinson's disease

- Julie Anja Engelhard Christensen

11:55 - 12:00 Open discussion

# **Breakout Session 2**

12:00 - 12:20 Working groups will meet separately

12:20 - 13:00 Each working group will present annual progress and plans for year ahead

(5 min each)

**Working Groups** 

Working Group: Biomarkers, Imaging, Clinical, Epidemiology
Working Group: Treatment & Trials, Basic Science, Neurophysiology

<u>Location</u> Plenary Room Room Gyldensteen

13:00 - 14:00 **Lunch** 

# **Social Excursion**

14:00 Meet at the hotel lobby
 14:00 - 16:30 Walking tour of Copenhagen
 Pre-registration is required

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Poster #	Abstract Title	Author/Presenter	Poster #	Abstract Title	Author/Presenter
1	REMeDio: a proof-of-concept neuroprotection study for prodromal synucleinopathies	Arnaldi, Dario	21	Clinical and Pathological Correlates of REM Sleep Behavior Disorder in the Mild Cognitive Impairment and Dementia Stages of Lewy Body Disease	Miyagawa, Toji
2	Functional Constipation across early stages of synucleinopathy: from high- risk relatives, REM sleep behavior disorder to early Parkinson's disease	Bei, Huang	22	Reduced dopamine transporter uptake predicts short-term transition to Lewy body disease in Japanese patients with idiopathic rapid eye movement	Miyamoto, Tomoyuki
3	Olfactory dysfunction and other biomarker progression in an iRBD patient cohort over a 2-year follow-up.	Dall'Antonia, Irene	23	sleep behavior disorder  Striatal aromatic I-amino acid decarboxylase activity using FMT PET imaging in idiopathic rapid eye movement sleep behavior disorder	Miyamoto, Masayuki
4	Serum cytokines in REM sleep behavior disorder	Dusek, Petr	24	Studying the genetic contribution of the recessive PD genes PARK2, DJ1	Mufti, Kheireddin
5	Subtle gait and balance impairments occur in idiopathic REM Sleep Behavior Disorder	Ehgoetz Martens, Kaylena	25	(PARK7), PINK1 and VPS13C to REM sleep behavior disorder.	Nadalaha Zaman
6	The neural signature of impaired dual-tasking in Idiopathic REM sleep behavior disorder patients	Ehgoetz Martens, Kaylena	Ioflupane-SPECT Findings Using DaTQUANT in Patients with Mild Cognitive Impairment and REM Sleep Behavior Disorder	Nedelska, Zuzana	
7	Validation of divergent neural dysfunction in idiopathic REM sleep behaviour disorder patients separated using clinical phenotyping	Ehgoetz Martens, Kaylena	26	Simultaneous tonic and phasic RWA best predicts early phenoconversion to neurodegenerative disease in idiopathic RBD.	Nepozitek, Jiri
8	Does REM sleep behavior disorder change in the progression of Parkinson's disease?	Figorilli, Michela	27	Sleep without atonia correlates with abnormal vestibular-evoked myogenic potentials in isolated REM sleep behavior disorder	Puligheddu, Monica / Figorilli, Michela
9	Brief Smell Identification Test Performance in RBD, DLB and AD	Forsberg, Leah	28	A brain signature of prodromal dementia with Lewy bodies	Rahayel, Shady
10	Patterns of cortical thickness in idiopathic RBD: a cluster analysis study	Gagnon, Jean-Francois	29	Predicting RBD from wrist actigraphy in Parkinson's Disease	Ratti, Luca
11	Selective neuronal spread of alpha-synuclein pathology from the pedunculopontine nucleus	Geibl, Fanni / Henrich, Martin	30	Analysis of SMPD1 variants in patients with REM sleep behavior disorder	Rudakou, Vlad
			31	Analysis of Hand Motion in RBD Using Camera System	Rusz, Jan
12	Quantifying Neurodegenerative Progression without a Pre-defined Brain Atlas, an End-to-end Data-driven Approach	Giancardo, Luca	32	Neuropathology of RBD (prompt discussions about obtaining autopsy tissue in idiopathic RBD)	Shprecher, David
13	Abnormal slow oscillation activity during non-REM sleep in patients with idiopathic REM sleep behavior disorder (RBD)	Jung, Ki-Young	33	Pilot Study Comparing Home Sleep Profiler to In-Laboratory Polysomnogram for REM Sleep Behavior Disorder Diagnosis	Shprecher, David
14	Actigraphic Screening for Rapid Eye Movement Sleep Behavior Disorder	Kemlink, David	34	Prevalence of REM Sleep Behavior Disorder in Sun City, Arizona	Shprecher, David
15	A 4-Year Follow-Up of [18F]FDG-PET Parkinson's Disease-Related Metabolic Brain Pattern Expression in a Cohort of 20 REM Sleep Behavior Disorder Patients	Kogan, Rosalie	35	Brain glucose metabolism in idiopathic REM sleep behaviour disorder with or without mild cognitive impairment: nigrostriatal and cognitive correlations	Mattioli, Pietro
16	Examining the role of GBA variants E326K and N370S in REM Sleep Behavior Disorder	Krohn, Lynne	36	Is Trauma-associated Sleep Disorder a Sub-form REM Sleep Behavior Disorder? A Canadian Longitudinal Study on Aging Cohort Study	Yao, Chun
17	A machine learning approach to identify Parkinson's disease based on sleep	Krumm, Lana	37	CSF A $\beta$ 42 is associated with EMCI and LMCI in amyloid PET negative subjects	Wang, Lijun
	spindle characteristics and to investigate the progression of iRBD patients to alpha-synucleinopathies		38	A novel actigraphy biomarker of iRBD	Stefani, Ambra
18	Amygdala-related functional connectivity change in idiopathic REM sleep behavior disorder: a longitudinal study	Lee, Jee Young	39	Frequency and Characteristics of Patients with Isolated REM Sleep without Atonia: A Community Based Study	Teigen, Luke
19	Early neurodegenerative biomarker starts in individual with spectrum of REM sleep behavior disorder	Liu, Yaping	40	Quantitative motor assessments in patients with rapid eye movement (REM) sleep behavior disorder (RBD) may predict phenoconversion to alpha	Summers, Rebekah
20 <b>10</b>	Lewy pathology in the REM sleep circuit triggers REM sleep behaviour disorder in mice	Luke, Russell	41	synuclein pathologies  Autonomic disturbances may serve as biomarkers in REM Sleep behavior disorder	Hermann, Wiebke

