



SYNUCLEIN

MEETING

1-4 September 2019
Porto, Portugal

ID	TITLE	AUTHORS
01-PO	MEMANTINE INHIBITS TRANSMISSION OF A-SYNUCLEIN BY MODULATING CLATHRIN-MEDIATED ENDOCYTOSIS IN A PARKINSONIAN MODEL	Hana Kim
02-PO	STUDY OF A-SYNUCLEIN AGGREGATE TOXICITY USING NANOPIPETTE	Chalmers Chi Cheng Chau; Paolo Actis; Eric Hewitt
03-PO	UNDERSTANDING THE ROLE OF ALPHA-SYNUCLEIN IN OLIGODENDROCYTE DEVELOPMENT AND CENTRAL NERVOUS SYSTEM MYELINATION	Sarah Cummings; Nathalie Lengacher ; Julianna Tomlinson; Michael Schlossmacher; Rashmi Kothary
04-PO	ATP13A2 REGULATES A-SYNUCLEIN OLIGOMERIZATION	Jianmin Si; Chris Van Den Haute ; Evy Lobbestael; Shaun Martin; Peter Vangheluwe; Veerle Baekelandt
05-PO	MILD OVER-EXPRESSION OF HUMAN A-SYNUCLEIN DOES NOT AFFECT SYNAPTIC TRANSMISSION	Inés Hojas García-Plaza; Nils Brose; Tiago F. Outeiro; James A. Daniel
06-PO	CHRONIC CAFFEINE TREATMENT MODULATES DISEASE PROGRESSION IN A TRANSGENIC ALPHA-SYNUCLEIN PRION-LIKE SPREADING MOUSE MODEL OF PARKINSON'S DISEASE	Nelson Ferreira; Cristine Betzer; Lasse Reimer; Marina Romero-Ramos; Poul Henning Jensen
07-PO	"BRAIN-FIRST" VS. "BODY-FIRST" PARKINSON'S DISEASE IS DETERMINED BY RBD-STATUS -- A MULTI-MODALITY IMAGING STUDY.	Per Borghamme; Jacob Horsager; Karoline Knudsen ; Tatyana Fedorova; Katrine Andersen; Casper Skjærbæk ; Erik Danielsen ; Nicola Pavese; David Brooks
08-PO	TRANSPLANTATION OF HUMAN PLURIPOTENT CELL DERIVED DOPAMINERGIC NEURONS INTO A NOVEL ACCELERATED A-SYNUCLEIN RAT MODEL OF PARKINSON'S DISEASE	Shelby Shrigley; Deirdre B Hoban; Bengt Mattsson; Jenny Nelander-Wahlestedt; Anders Björklund; Malin Parmar
09-PO	HYPOXIA, A POSSIBLE PATHOGENIC FACTOR IN MSA AND PD	Antonio Heras-Garvin; Janice Holton ; Gregor K. Wenning ; Nadia Stefanova
10-PO	EARLY BIDIRECTIONAL AND TRANS-SYNAPTIC PARASYMPATHETIC AND SYMPATHETIC SPREAD OF ALPHASYNUCLEIN FROM THE GASTROINTESTINAL TRACT TO THE BRAINSTEM: PROOF FROM A BAC RAT STUDY.	Nathalie Van Den Berge; Nelson Ferreira; Gültekin Tamgüney; Olaf Riess; Poul Henning Jensen; Per Borghammer
11-PO	SYMPATHETIC AND PARASYMPATHETIC TRANS-SYNAPTIC SPREAD OF ALPHASYNUCLEIN PATHOLOGY FROM GUT TO BRAIN IN AGED FISHER 344 RATS	Nathalie Van Den Berge; Nelson Ferreira; Gültekin Tamgüney; Olaf Riess; Nicolas Casadei; Poul Henning Jensen; Per Borghammer
12-PO	UNRAVELING THE MECHANISM OF ALPHA-SYNUCLEIN SEEDING IN OLIGODENDROCYTES	Panagiota Mavroei; Fedra Arvanitaki; Anastasia-Kiriaki Karakitsou; Maria Vetsi; Ismini Kloukina; Marcus Zweckstetter; Stefan Becker; Zachary Sorrentino; Benoit Giasson; Poul Henning Jensen ; Leonidas Stefanis ; Maria Xilouri
13-PO	NATIVE ION MOBILITY MASS SPECTROMETRY AS A POWERFUL TOOL TO DISSECT A-SYNUCLEIN CONFORMATIONAL SPACE - SMALL MOLECULES, METAL IONS, PTMS	Rani Moons; Albert Konijnenberg; Anne-Marie Lambeir; Frank Sobott
14-PO	EXPLORING THE EFFECT OF FAMILIAL PARKINSON'S DISEASE MUTATIONS ON THE OLIGOMERIZATION OF A-SYNUCLEIN INDUCED BY 3,4-DIHYDROXYPHENYLACETALDEHYDE (DOPAL).	Vanderlei Lima; Cristian Follmer
15-PO	A-SYNUCLEIN INDUCES COFILIN PATHOLOGY: IMPLICATIONS ON PARKINSON'S DISEASE DEMENTIA	Marina Isabel Oliveira Da Silva; Tiago Flemig Outeiro; James Bamberg ; Márcia Almeida Liz



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16-PO	SYSTEMATIC COMPARISON OF THE MOLECULAR MECHANISMS UNDERLYING THE SPREADING OF PATHOLOGY IN DIFFERENT NEURODEGENERATIVE DISEASES	Inês Caldeira Brás; Tiago Fleming Outeiro
17-PO	COMBINED ANTI-A-SYNUCLEIN THERAPY FOR DISEASE MODIFICATION IN MULTIPLE SYSTEM ATROPHY	Miguel Lemos; Violetta Refolo; Daniel Weckbecker; Antonio Heras-Garvin; Petra Gruber; Guenther Staffler; Christian Griesinger; Armin Giese; Gregor Wennning; Nadia Stefanova
18-PO	THE ROLE OF RNA IN SYNAPSE PHYSIOLOGY AND NEURODEGENERATION IN MODELS OF PARKINSON'S DISEASE	Mary Xylaki; Isabel Paiva; Benedict Atzler; Guarav Jain; Rezaul Islam; Andre Fischer; Tiago Outeiro
19-PO	THE EFFECT OF REACTIVE CARBONYL COMPOUNDS ON ALPHA-SYNUCELIN STRUCTURE AND AGGREGATION	Ikhlas Mohamed Mohamud Ahmed; Enrico Falcone; Valentina Oliveri; Graziella Vecchio; Francesco Bellia
20-PO	SKIN NERVE A-SYNUCLEIN DEPOSITS AS POSSIBLE NEW BIOMARKER FOR DEMENTIA WITH LEWY BODIES	Vincenzo Donadio; Alex Incensi; Sabina Capellari; Giovanni Rizzo ; Roberta Pantieri ; Michelanelo Stanzani Maserati; Grazia Devigili; Roberto Eleopra; Federico Montini; Agostino Baruzzi; Rocco Liguori
21-PO	PHOSPHORYLATED A-SYNUCLEIN BIOMARKER IN SKIN NERVES IS DIFFERENTLY EXPRESSED IN PURE AUTONOMIC FAILURE AND IDIOPATHIC PARKINSON DISEASE	Vincenzo Donadio; Alex Incensi; Cristina Piccinini; Pietro Cortelli; Maria Pia Giannoccaro; Agostino Baruzzi; Rocco Liguori
22-PO	SKIN A-SYNUCLEIN DEPOSITS DIFFER BETWEEN PARKINSON DISEASE PATIENTS WITH AND WITHOUT DYSAUTONOMIA	Vincenzo Donadio; Alex Incensi; Giovanni Rizzo; Rossella Infante; Francesca Del Sorbo; Cesa Scaglione; Nicola Modugno; Rocco Liguori
23-PO	IN VIVO CHARACTERIZATION OF DISTINCT PATIENT-DERIVED ALPHA-SYNUCLEIN STRAINS	Anke Van Der Perren; Géraldine Gelders; Alexis Fenyi; Luc Bousset; Filipa Brito; Wouter Peelaerts; Steve Gentleman; Ronald Melki; Veerle Baekelandt
24-PO	NEUROTOXICITY OF THE DOPAMINE METABOLITE SALSOLINOL IS ATTENUATED BY PROTEIN A-SYNUCLEIN IN VITRO.	Phelippe Gonçalves; Eduardo Coelho-Cerqueira; Luciana Romão; Cristian Follmer
25-PO	POSTTRANSLATIONAL MODIFICATIONS MODULATE A-SYNUCLEIN CYTOTOXICITY AND DEGRADATION FATE IN A YEAST MODEL OF PARKINSON ´S DISEASE	Blagovesta Popova; Alexandra Kleinknecht; Diana Lazaro; Oliver Valerius ; Tiago F. Outeiro; Gerhard H. Braus
26-PO	PARK9'S EFFECT ON A-SYNUCLEIN SPREAD IN A MOUSE MODEL OF PARKINSON'S DISEASE	Michaela Johnson; Liza Bergkvist; Jennifer Steiner; Daniel Wesson; Kelvin Luk; Dimitri Krainc; Patrik Brundin
27-PO	QUANTIFICATION OF NON-NEURONAL CELLS CONTAINING INTRACELLULAR A-SYNUCLEIN IN THE HUMAN PARKINSON'S DISEASE OLFACTORY BULB	Taylor Stevenson; Victor Dieriks; Helen Murray; Michael Dragnow; Richard Faull; Maurice Curtis
28-PO	IMPACT OF ALPHA-SYNUCLEIN EXPRESSION ON PROTEIN HOMEOSTASIS IN YEAST	Dajana Galka; Blagovesta Popova; Marie Niederlethinger; Matthias Meurer; Michael Knop; Gerhard H. Braus
29-PO	SIZE-DEPENDENT PROPERTIES OF ALPHA-SYNUCLEIN AGGREGATES	Derya Emin; Juan Varela; Dimitrios Sideris; Margarida Rodrigues; Zengjie Xia ; David Klenerman
30-PO	TELOMERASE ACTIVATORS IMPROVE MOTOR FUNCTION AND PROTEIN DEGRADATION IN A MOUSE MODEL OF PARKINSON'S DISEASE (PD)	Tengfei Wan; Gabriele Saretzki



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31-PO	MODULATORS OF A-SYNUCLEIN AND TAU AGGREGATION AND INTERNALIZATION	Antonio Dominguez-Meijide; Eftychia Vasili; Tiago Outeiro
32-PO	METFORMIN PREVENTS THE DELETERIOUS EFFECTS OF GLYCATION IN CELLULAR MODELS OF SYNUCLEINOPATHIES	Ana Chegão; Bárbara Fernandes Gomes; Tiago Fleming Outeiro; Hugo Vicente Miranda
33-PO	HSP27 PREVENTS THE DELETERIOUS EFFECTS OF GLYCATION IN ALPHA-SYNUCLEIN PATHOBIOLOGY	Vicente Miranda; Ana Chegão; Márcia Oliveira; Bárbara Fernandes Gomes; Tiago Fleming Outeiro
34-PO	ACTIVATION OF MICROGLIA BY DIFFERENT ALPHA-SYNUCLEIN SPECIES: INSIGHT INTO THE MOLECULAR UNDERPINNINGS OF NEUROINFLAMMATION IN PD	>Eftychia Vasili; Tiago Fleming Outeiro
35-PO	NEUROINFLAMMATORY PATHWAYS INVOLVED IN THE SELECTIVE NEURODEGENERATION OBSERVED IN A TRANSGENIC MOUSE MODEL OF MULTIPLE SYSTEM ATROPHY	Violetta Refolo; Gregor Wenning; Nadia Stefanova
36-PO	THE EFFECT OF COMBINING A GLP-1 ANALOGUE AND AN INSULIN SENSITIZER IN A MOUSE MODEL OF A-SYNUCLEIN PROPAGATION	Liza Bergkvist; Michaela Johnson; Lindsay Meyerdirk; Emily Kuhn; Yazhou Li; Jennifer Steiner; Katelyn Becker; Hoil Choi; Jiyan Ma; Jerry Colca; Jin Jung; Nigel Greig; Patrik Brundin
37-PO	THE ROLE OF SYNPHILIN-1 ON THE SPREADING OF ALPHA-SYNUCLEIN PATHOLOGY	Diana Lázaro; Tiago Outeiro
38-PO	NEURONAL DETERMINANTS OF DIFFERENTIAL VULNERABILITY IN PARKINSON'S DISEASE IN THE CORTEX	Anastasia Salter; Ruth Musgrove; Catherine Blizzard; Tracey Dickson
39-PO	SEEDING-COMPETENT ALPHA-SYNUCLEIN IN THE CSF IS A PROMISING BIOMARKER FOR PD	Roland Heym; Simone Gaiasi; Heike Wieland; David Holzinger; Gary Overmeyer; Marie-Theres Weil; Martin Schmidt
40-PO	ESTABLISHMENT OF AN A-SYNUCLEIN SEEDING MODEL IN CORTICAL NEURONS DERIVED FROM HUMAN INDUCED PLURIPOTENT STEM CELLS	Charlotte Vajhøj; Benjamin Schmid; Luc Bousset; Ronald Melki; Bjørn Holst; Tina Charlotte Stummann
41-PO	STABILIZATION OF A-SYNUCLEIN OLIGOMERS USING FORMALDEHYDE	Harm Ruesink; Nanna Møller Jensen; Lasse Reimer; Emil Gregersen; Arne Möller; Cristine Betzer; Poul Henning Jensen
42-PO	DNA METHYLOME ANALYSIS IN POST-MORTEM BRAIN TISSUE OF MULTIPLE SYSTEM ATROPHY PATIENTS	Conceição Bettencourt; Sandrine C. Foti; Yasuo Miki; Tammarny Lashley; Robert Balazs; Emmanuelle Vire; Janice Holton
43-PO	THE PERINEURONAL NET BLOCKS OLIGOMERIC A-SYNUCLEIN UPTAKE	Stuart Dickens; Brian Jackson; James Duce; Jessica Kwok
44-PO	PERIPHERAL IMMUNE CELLS CORRELATE TO DISEASE PROGRESSION IN MULTIPLE SYSTEM ATROPHY AND PARKINSON'S DISEASE	Jonas Folke; Yawei Liu; Rasmus Rydbirk; Annemette Løkkegaard; Anne-Mette Hejl; Matthias Bode; Morten Blaabjerg; Mette Møller; Erik Hvid Danielsen; Susana Aznar; Shohreh Issazadeh-Navikas; Bente Pakkenberg; Tomasz Brudek
45-PO	EXPRESSION PROFILE OF BRAIN VOLTAGE GATED CALCIUM CHANNELS IN PARKINSON'S DISEASE MOUSE MODELS	Ioanna Chalatsa; Emmanouela Leandrou; Vicky Filippa; Kostas Vekrellis; Evangelia Emmanouilidou



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46-PO	N-TERMINAL ACETYLATION MUTANTS OF ALPHA-SYNUCLEIN AFFECT ITS PROTEIN LEVELS AND NEURONAL TOXICITY.	Rodrigo Vinueza-Gavilanes; Chiara Boncristiani; Ignacio Íñigo-Marco; Laura Larrea; Ana Baltanás; Marta Lasa; Beatriz Carte; Enrique Santamaría; Joaquín Fernández-Irigoyen; Rafael Aldabe; Montserrat Arrasate
47-PO	TYROSINE HYDROXYLASE NEURON-SPECIFIC OVEREXPRESSION OF ALPHA-SYNUCLEIN BY THE ADENO-ASSOCIATED VIRUS IN THE LOCUS COERULEUS AND SUBSTANTIA NIGRA OF MURINE MODELS OF PARKINSON'S DISEASE: A NEW PRECISE TOOL TO INVESTIGATE ALPHA-SYNUCLEINOPATHIES.	Goutham Kumar Ganjam; Bolam Lee; Anke Van Der Perren; Fanni Geibl; Martin Heinrich; Carsten Culmsee; Wolfgang H Oertel
48-PO	A-SYNUCLEIN DIMERS AS POTENT INHIBITORS OF FIBRILLIZATION	Yevhenii Kyriukha; Kseniia Afitska; Andrii Kurochka; Shubhra Sachan; Dmytro Yushchenko; Volodymyr Shvadchak
49-PO	CONTROLLING ALPHA-SYNUCLEIN PRODUCTION AND VALIDATING FIBRILLATION FOR REPRODUCIBLE RESULTS IN VITRO	Steffen Nyegaard; Tina M Kousted; Malene Ambjørn; Katarina Willén; Kaare Bjerregaard-Andersen; Nikki Jane Damsgaard; Rikke Madsen; Anette Frederiksen; Susanne K Lüder; Pekka Kallunki; Søren Christensen; Allan Jensen; Karina Fog
50-PO	PARTIALLY OXIDIZED DJ-1 INHIBITS A-SYNUCLEIN FIBRILLATION AND REMODELS MATURE A-SYNUCLEIN FIBRES INTO TOXIC CONFORMATIONS	Sanjay Kumar; Roshan Kumar; Pranita Hanpude; Abhishek Kumar Siingh; Tanu Johari
51-PO	COMPARISON OF DIFFERENT AAV SEROTYPES FOR MODELLING PARKINSON'S DISEASE IN THE MOUSE BY OVEREXPRESSING A-SYNUCLEIN	Céline Fournier; Andrea Kiss; Aro Delparente; Michel Steiner; Elodie Angot
52-PO	THE SUR1-KIR6.2 KATP CHANNEL REGULATES THE SECRETION OF A-SYNUCLEIN IN VIVO	Dimitrios Anagnostou; Emmanuela Leandrou; Kostas Vekrellis; Evangelia Emmanouilidou
53-PO	RAB7/RAB24 MODULATE ALPHA-SYNUCLEIN CLEARANCE AND PATHOLOGY	Ellen Gerhardt; Tiago Flemming Outeiro
54-PO	BIOPHYSICAL CHARACTERIZATION OF THE ROLE OF A-SYNUCLEIN CONFORMERS IN PROTEOTOXICITY	Gayatri Bagree; Tulika Srivastava; Srishti Mehrotra; Smriti Priya; Alok Dhawan; Sandeep Sharma
55-PO	THE E3 UBIQUITIN-LIGASES TRIM17 AND TRIM41 MODULATE A-SYNUCLEIN EXPRESSION BY REGULATING ZSCAN21	Iréna Lassot; Stéphan Mora; Suzanne Lesage; Iria Carballo-Carbajal; Miquel Vila; Solange Desagher
56-PO	CYTOSOLIC TRAPPING OF A MITOCHONDRIAL HEAT SHOCK PROTEIN IS AN EARLY PATHOLOGICAL EVENT IN SYNUCLEINOPATHIES	Patrícia Santos; Eva Szego; Tiago Outeiro
57-PO	ANALYSIS AND RESCUE OF GBA-ASSOCIATED PARKINSON'S DISEASE PHENOTYPES	Isabel Rosety; Jens Schwamborn
58-PO	VISUAL SYSTEM PATHOLOGY IN DEMENTIA WITH LEWY BODIES: BEYOND A-SYNUCLEIN PATHOLOGY	Daniel Erskine; Nichola Lax; Chris Morris; Ahmad Khundakar; Doug Turnbull; Johannes Attems
59-PO	A NOVEL PROLYL OLIGOPEPTIDASE INHIBITOR HAS BENEFICIAL EFFECTS ON BEHAVIOR OF A A-SYNUCLEIN VIRUS VECTOR MOUSE MODEL OF PARKINSON'S DISEASE	Ulrika Julku; Tommi Kilpeläinen; Reinis Svarcbahs; Erik Wallen; Timo Myöhänen
60-PO	SELECTIVE NEURONAL SPREAD OF ALPHA-SYNUCLEIN PATHOLOGY FROM THE PEDUNCULOPONTINE NUCLEUS	Martin T. Henrich; Fanni F. Geibl; Harini Lakshminarasimhan; Anna Stegmann; Benoit I. Giasson; Ted M. Dawson; Wolfgang H. Oertel; D. James Surmeier



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61-PO	AGGREGATION INHIBITOR PROTECTS CELLS AGAINST ALPHA-SYNUCLEIN TOXICITY IN CELL CULTURE	Maksym Galkin; Volodymir Schvadchak
62-PO	ALPHA-SYNUCLEIN - A NOVEL ACTIVATOR OF THE PLASMA MEMBRANE CALCIUM ATPASE	Antoni Kowalski; Cristine Betzer; Sigrid Thirup Larsen; Emil Gregersen; Montaña Caballero Bermejo; Poul Henning Jensen; Poul Nissen
63-PO	DIBMALPS NANODISCS KEEP ALPHA-SYNUCLEIN FOLDING	Regina Adão; Pedro Cruz; Daniela C. Vaz; Fátima Fonseca; Frederico Ferreira-Da-Silva; Rui M. M.Brito; Daniel Otzen; Sandro Keller; Margarida Bastos
64-PO	AGGREGATED ALPHA-SYNUCLEIN IN VITRO CLEARANCE BY SUBEPENDYMAL MICROGLIAL CELLS	M ^a Salomé Sirerol-Piquer; Pere Duarte; Ana Perez-Villalba; Laura Blasco-Chamarro; Germán Belenguer; Miquel Martí-Zaragozá; Isabel Fariñas
65-PO	IDENTIFICATION OF GENETIC MODIFIERS OF A-SYNUCLEIN PROPAGATION THROUGH A HIGH-CONTENT, GENOME-WIDE SIRNA SCREEN	Eleanna Kara; Alessandro Crimi; Marc Emmenegger; Claudia Manzoni; Sara Bandres Ciga; Juan Botia; Anne Wiedmer; Manfredi Carta; Daniel Heinzer; Merve Avar; Andra Chincisan; Manuela Tan; Edwin Jabbari; Cornelis Blauwendraat ; Sonia Garcia Ruiz; Daniel Pease; Jiang-An Yin; Lorene Mottier; Alessandra Carrella; Dezirae Schneider; Caroline Aemisegger; Zhanyun Fan; Jordan Marks ; Sarah Hopp; Huw Morris; Patrick Lewis; Michael Nalls; Mina Ryten; John Hardy; Bradley Hyman; Adriano Aguzzi
66-PO	TWO SIDES OF THE SAME COIN: BIMODAL DISTURBANCES OF HIPPOCAMPAL GENE EXPRESSION AND DNA METHYLATION IN THE CONTEXT OF ALPHA-SYNUCLEIN	Thomas Hentrich; Zinah Wassouf; Samantha Schaffner; Michael S. Kobor; Olaf Riess; Julia M. Schulze-Hentrich
67-PO	THE LIVE CYCLE OF "PRION-LIKE" ALPHA-SYNUCLEIN PROPAGATION VIA EXOSOME PATHWAYS	Lin Yuan; Ya-Nan Su; Xiao-Yan Gao; Ji-Hui Su; Yan Sun; Wen Li; Tao Wang; Jia-Yi Li
68-PO	CYTOTOXIC PROFILING OF ROTENONE INDUCED A-SYNUCLEIN CONFORMERS	Tulika Srivastava; Shweta Devi; Minal Chaturvedi; Smriti Priya
69-PO	EXOSOME ASSOCIATION MODIFIES A-SYNUCLEIN PROPAGATION PROPERTIES.	Agaristi Lamprokostopoulou; Antonios Giannelos; Vasia-Samantha Sykioti; Adamantia Karampetsou; Ismini Kloukina; Kostas Vekrellis
70-PO	PRION-LIKE ACTIONS OF INTRAVENTRICULAR LEWY BODIES IN THE SUBEPENDYMAL ZONE CAN BE PREVENTED BY MICROGLIA CELLS	Ana Perez-Villalba; M. Salomé Sirerol Piquer; Pere Duarte-Abadia; Germán Belenguer; Laura Blasco-Chamarro; Benjamin Dehay ; Miquel Vila ; Isabel Fariñas
71-PO	INVESTIGATION ON THE DOPAL-INDUCED ASYNUCLEIN CELLULAR DISTRIBUTION BY CORRELATED LIGHT AND ELECTRON MICROSCOPY.	Anna Masato; Andrea Thor; Matthew Madany; Federica De Lazzari; Marco Bisaglia; Elisa Greggio; Mark Ellisman; Daniela Boassa; Luigi Bubacco
72-PO	DEMONSTRATION OF SOLUBLE ALPHA-SYNUCLEIN OLIGOMERS IN BRAIN EXTRACTS FROM DEMENTIA WITH LEWY BODY USING SIZE-EXCLUSION CHROMATOGRAPHY AND ALPHA-SYNUCLEIN AGGREGATE-SPECIFIC ELISA	Emil Gregersen Emil Gregersen ¹ ; Tim Bartels; Dennis Selkoe; Poul Henning Jensen
73-PO	ROLE OF THE VASCULAR SYSTEM IN PFFS TRANSPORT TO THE BRAIN	Laura Blasco-Chamarro; M. Salomé Sirerol-Piquer; Ana Perez-Villalba; Pere Duarte-Abadia; Isabel Fariñas
74-PO	HYPER-PHOSPHORYLATION OF A-SYN: A TRIGGER TO TOXICITY	Minal Chaturvedi; Smriti Priya



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75-PO	INTRANEURAL SKIN NERVE A-SYNUCLEIN DEPOSITS IN MULTIPLE SYSTEM ATROPHY	Vincenzo Donadio; Alex Incensi; Giovanni Rizzo; Francesca Del Sorbo; Alessandro Tessitore; Rosa De Micco; Roberto Cilia; Salvatore Bonvegna; Rossella Infante; Veria Vacchiano; Gioacchino Tedeschi; Rocco Liguori
76-PO	PHOSPHORYLATION OF A-SYNUCLEIN AT SERINE 129 OCCURS SUBSEQUENT TO INITIAL PROTEIN DEPOSITION AND INHIBITS FURTHER AGGREGATION AND CYTOTOXICITY	Simona S. Ghanem; Mustafa Al-Ardah; Muneera Fayyad; Daniel Erskine; Johannes Attems; Tiago Outeiro; Omar M.A. El-Agnaf
77-PO	DETECTION AND QUANTIFICATION OF SEEDING CAPACITY IN BRAIN TISSUE FROM A-SYNUCLEINOPATHIES BY RT-QUIC	Kaare Bjerregaard-Andersen; Katarina Willén; Steffen Nyegaard; Michal Lubas; Tomasz Brudek; Susana Aznar; Pekka Kallunki; Karina Fog
78-PO	INCREASED BRAIN UPTAKE OF A BISPECIFIC ANTIBODY TARGETING OLIGOMERIC ALPHA-SYNUCLEIN	Sahar Roshanbin Sahar Roshanbin; Greta Hultqvist; Martin Ingelsson; Joakim Bergström; Dag Sehlin
79-PO	BRAIN PENETRANT NON-COMPETITIVE PHARMACOLOGICAL CHAPERONES FOR TREATING PARKINSON DISEASE AND OTHER A-SYNUCLEINOPATHIES	Natàlia Pérez-Carmona; Ana Ruano; Aida Delgado; Marta Montpeyó; Alba Navarro-Romero; Sara Morales; Jordi Riera; Miquel Vila; Marta Martínez-Vicente; Elena Cubero; Ana María García-Collazo; Xavier Barril
80-PO	A-SYNUCLEIN SECRETION IS REGULATED BY SPECIFIC VOLTAGE-GATED CALCIUM CHANNELS	Emmanouela Leandrou; Ioanna Chalatsa; Kostas Vekrellis; Evangelia Emmanouilidou
81-PO	DEEP CONVOLUTIONAL NEURAL NETWORK -BASED ANALYSIS OF LEWY BODY PATHOLOGY IN MICE	Ilmari Parkkinen; Jaan Korpikoski; Katrina Albert; Sami Blom; Kari Pitkänen; Kelvin Luk; Merja Voutilainen; Mikko Airavaara
82-PO	FIBRILLAR FORM OF A-SYNUCLEIN-SPECIFIC SCFV ANTIBODY INHIBITS A-SYNUCLEIN SEEDS INDUCED AGGREGATION, TOXICITY AND PHOSPHORYLATION	Vijay Gupta; Safa Salim; Nishant N. Vaikath; Indulekha P. Sudhakaran; Issam Hmila; Simona Ghanem; Sara A. Abdulla; Mohamed M. Emara; Houari B. Abdesselem; Daniel Erskine; Thomas Lukacsovich; Omar M. A. El-Agnaf
83-PO	UTILITY OF SKIN BIOPSY TO DETECT PHOSPHORYLATED A-SYNUCLEIN DEPOSITS IN THE DIAGNOSIS OF PROGRESSIVE SUPRANUCLEAR PALSY AND CORTICOBASAL SYNDROME	Giovanni Rizzo; Vincenzo Donadio; Alex Incensi; Rossella Infante; Patrizia Avoni; Rocco Liguori
84-PO	ON THE MECHANISM OF ALPHA-SYNUCLEIN AGGREGATION BY THE DJ-1 PROTEIN	Gergely Tóth; András Czajlik; Anasztázia Hetényi; Balázs Fórizs; Katalin Solti; Tamás Martinek; Daniel Ysselstein; Jean-Christophe Rochet
85-PO	STRUCTURAL PROFILING OF FILAMENTS FROM MULTIPLE LEWY PATHOLOGIES	Amanda Lewis; Paula Navarro; Daniel Castaño-Díez; Stefano Scaramuzza; Wilma D. J. Van De Berg; Henning Stahlberg
86-PO	THE PROTECTIVE ROLE OF AMPK AND AUTOPHAGY IN NEUROTOXICITY CAUSED BY EXTRACELLULAR ALPHA-SYNUCLEIN	Ivanka Markovic; Marija Jeremic; Marija Dulovic Mahlow; Maja Jovanovic; Nevena Zogovic; Gordana Tovilovic Kovacevic; Vladimir Kostic; Vladimir Trajkovic
87-PO	PHOSPHORYLATION AT SERINE 129 IS NOT A PREREQUISITE FOR ALPHA SYNUCLEIN AGGREGATION OR SPREADING IN A NOVEL ORGANOTYPIC SLICE MODEL OF PARKINSONS'S DISEASE	Sara Elfarrash; Nanna Moller Jensen; Nelson Ferriera ; Cristine Betzer; Deniz Kirik; Sadegh Nabavi; Poul Henning Jensen
88-PO	PHENOTYPING SNCA ALTERATIONS IN MIDBRAIN ORGANIDS	Jennifer Modamio Chamarro; Silvia Bolognin; Paul Antony; Javier Jarazo; Jens Schwamborn
89-PO	PKR MEDIATED NOVEL SERINE AND THREONINE PHOSPHORYLATION MODIFICATIONS AFFECT A-SYNUCLEIN FUNCTION	Lasse Reimer; Cristine Betzer; Hjalte Gram; Li Yang ; Lorrain Jin; Min Shi ; Daniel Otzen; Brian Vad; Jing Zhang; Poul Henning Jensen



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90-PO	DEVELOPMENT AND ENGINEERING OF NANOBODY AGAINST ALPHA-SYNUCLEIN FROM AN IMMUNE PHAGE DISPLAY LIBRARY	ssam Hmila; Nishant N. Vaikath ; Vijay Gupta ; Daniel Erskine; Omar M. A. El-Agnaf
91-PO	ALPHA-SYNUCLEIN, TAU & AMYLOID-BETA, A TANGLED INTERACTION IN NEURODEGENERATION	Laura Torres-Garcia; Joana M.P. Domingues; Gunnar K. Gouras; Jia-Yi Li
92-PO	EARLY IN VIVO EFFECTS OF INHIBITION OF CHAPERONE-MEDIATED AUTOPHAGY ON A-SYNUCLEIN AND MACROAUTOPHAGY IN THE RAT NIGROSTRIATAL AXIS	Maria Fouka; Ismini Kloukina; Maria Xilouri; Leonidas Stefanis
93-PO	APPLICATION OF FRET BASED AGGREGATION REPORTERS TO HIGH-THROUGHPUT SCREENING OF SMALL COMPOUND LIBRARIES	>Alexander Svanbergsson; Jia-Yi Li
94-PO	NEURODEGENERATION OF DOPAMINERGIC NEURONS CONVICTED BY GLIAL CELL-SPECIFIC ACCUMULATION OF ALPHA-SYNUCLEIN	Simone Bido; Serena Giannelli; Luca Massimino; Luca Kluzer; Vania Broccoli
95-PO	STRUCTURAL AND MOLECULAR MECHANISMS RELATED TO A-SYNUCLEIN FORMATION AND ITS INHIBITION	Nazareno Gonzalez; Hugo A. Garro; Iñaki Gentile; Carla Ramunno; Markus Zweckstetter; Christian Griesinger; Tiago F Outeiro; Claudio O Fernandez
96-PO	INHIBITING THE MITOCHONDRIAL PYRUVATE CARRIER COMPLEX AS A THERAPEUTIC TARGET FOR PARKINSON'S DISEASE	Wouter Peelaerts; Jennifer Steiner; Sonia George; Lindsay Meyerdirk; Emily Kuhn; Jerry Colca; Patrik Brundin
97-PO	EXPLORING ALPHA-SYNUCLEIN PROTEOFORMS LANDSCAPE THROUGH EXTREME RESOLUTION FOURIER-TURNFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY	Vukosava Milic Torres; Margarida Isidro; Marta Sousa Silva; Joana S. Cristovão; Claudio Gomes; Carlos Cordeiro
98-PO	ELUCIDATING THE ROLE OF SYNUCLEINS IN RETINAL NEURODEGENERATION IN PARKINSON'S' DISEASE, DIABETES AND AGEING	Luís Sousa; Gabriela Santos; João Martins; Ângela Castela; Tiago Outeiro; Gabriela Silva; Sandra Tenreiro
99-PO	BIOMARKERS DEFINITION FOR PATIENTS STRATIFICATION IN PRECISION IMMUNOTHERAPY OF SYNUCLEINOPATHIES	Michele Sandre; Luigi Bubacco; Angelo Antonini
100-PO	LESS CAN BE MORE (OR LESS): THE IMPACT OF POST-TRANSLATIONAL MODIFICATIONS IN ALPHA-SYNUCLEIN PRE-FORMED FIBRIL MEDIATED NEUROPATHOLOGY SEEDING IN MOUSE BRAIN	Johannes Burtscher; Jean-Christophe Copin; Anne-Laure Mahul-Mellier ; Laura Weerens; Hilal A. Lashuel
101-PO	CANDIDATE BODY FLUID MARKERS FOR PARKINSON'S DISEASE ONSET AND PROGRESSION	Nour Majbour; Ilham Abdi; Houda Moussa; Muneera Fayyad
102-PO	A PANEL OF CSF AND PLASMA BIOMARKERS FOR DIFFERENTIAL DEMENTIA DIAGNOSIS	Ilham Y. Abdi; Vasilios C. Constantinides; Nour K. Majbour; Houda Ali Moussa; Anastasia Majbour; George P. Paraskevas; Elizabeth Kapaki; Omar M. El Agnaf
103-PO	A NOVEL PANEL OF CSF AND PLASMA BIOMARKERS FOR PARKINSON'S DISEASE DIAGNOSIS	Houda Ali Moussa; Nour K. Majbour; Ilham Y. Abdi; Muneera W. Fayyad; Brit Mollenhauer; Omar M. El-Agnaf
104-PO	BIOMARKERS FOR THE RISK OF PROGRESSION FROM REM DISORDER TO PARKINSON'S DISEASE	Nour Majbour; Ilham Abdi; Houda Moussa; Muneera Fayyad; Brit Mollenhauer; Omar El-Agnaf



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105-PO	THE DYNAMICS OF LEWY BODY FORMATION, RATHER THAN SIMPLY ALPHA-SYNUCLEIN FIBRILLIZATION, IS THE MAJOR CAUSE OF A-SYN-INDUCED TOXICITY	Anne-Laure Mahul-Mellier; Johannes Burtscher; Niran Maharjan ; Laura Weerens ; Marion Leleu ; Marie Croisier; Fabien Kuttler; Graham Knott; Hilal Lashuel
106-PO	CSF OLIGOMERIC ALPHA-SYNUCLEIN AS A PRECLINICAL MARKER OF PARKINSON'S DISEASE: A STUDY IN LRRK2 MUTATION CARRIERS	Ilham Y. Abdi; Nour K. Majbour; Jan O. Aasly; Houda Ali Moussa; Muneera W. Fayya; Eldbjørg Hustad; Naser Elkum ; Omar M. El Agnaf
107-PO	SECOND GENERATION OF CONFORMATION-SPECIFIC ANTIBODIES FOR ALPHA-SYNUCLEIN PATHOLOGY	Nour Majbour; Nishant Vaikath; Indu Sudhakaran; Daniel Erskine; Muneera Fayyad; Tiago Outeiro; Omar El-Agnaf
108-PO	PHOSPHORYLATION OF ALPHA-SYNUCLEIN AS A SECONDARY EVENT IN LEWY BODY DISEASES	Daniel Erskine; Muneera Fayyad ; Nour Majbour ; Nishant Vaikath ; Tiago Outeiro; Ian Mckeith; Johannes Attems; Omar El-Agnaf
109-PO	ELUCIDATION OF THE BIIB054 BINDING TO A-SYNUCLEIN PTMS	Christine Liu Christine Liu; Joe Arndt; Quan Chao; Andreas Lehmann; Paul Weinreb; Andreas Weihofen ; Blake Pepinsky
110-PO	POST-FIBRILLIZATION POST-TRANSLATIONAL MODIFICATION ARE MASTER REGULATORS OF A-SYNUCLEIN INTERACTOME AND LEWY BODY FORMATION AND MATURATION.	Anne-Laure Mahul-Mellier; Melek Firat Altay; Johannes Burtscher ; Niran Maharjan; Nadine Ait-Bouziad; Anass Chiki; Siv Vingill; Richard Wade-Martins; Janice Holton; Catherine Strand; Jia-Yi Li; Caroline Haikal; Romain Hamelin; Georges Mairet-Coello ; Laura Weerens; Anne Michel; Patrick Downey; Martin Citron; Hilal Lashuel
111-PO	INVESTIGATING THE INTERPLAY BETWEEN CALCIUM HOMEOSTASIS, ALPHA-SYNUCLEIN OLIGOMERIZATION/ FIBRILLIZATION, AND LEWY BODY-LIKE PATHOLOGY FORMATION IN A NEURONAL MODEL OF PARKINSON'S DISEASE	Somanath Jagannath; Senthil T. Kumar; Hilal A. Lashuel
112-PO	PRE-FORMED FIBRILS OF S129 PHOSPHORYLATED ALPHA-SYNUCLEIN ARE CLEAVED AND INDUCE THE FORMATION OF INCLUSIONS IN NEURONAL SEEDING MODEL	Anne-Laure Mahul-Mellier; Muhammed Syed; Ritwik Burai; Sean Deguire; Mark Baillie; Hilal Lashuel
113-PO	THE ROLE OF POST-FIBRILLIZATION SITE-SPECIFIC NITRATION OF ALPHA-SYNUCLEIN IN REGULATING FIBRIL STABILITY, FRAGMENTATION AND SEEDING CAPACITY IN VITRO AND IN PRIMARY NEURONS.	Sonia Donzelli; Anne-Laure Mahul-Mellier; Muhammed Muazzam Kamil Syed; Senthil T. Kumar; Johannes Burtscher; Anass Chiki; Hilal A. Lashuel
114-PO	ALPHA-SYNUCLEIN OLIGOMERS INDUCE EARLY AXONAL DYSFUNCTION IN HUMAN IPSC-BASED MODELS OF SYNUCLEINOPATHIES	Iryna Prots; Janina Grosch; Razvan-Marius Brazdis; Katrin Simmnacher; Douglas R. Galasko; Wolfgang Wrasidlo; Eliezer Masliah; Ursula Schlötzer-Schrehardt; Wei Xiang; Jürgen Winkler; Beate Winner
115-PO	AN ANTIBODY AGAINST A STRAIN OF A-SYNUCLEIN SPECIFIC FOR GLIAL PATHOLOGY IN LEWY BODY DISEASES AND MULTIPLE SYSTEMS ATROPHY	Daniel Erskine; Nour Majbour; Nishant Vaikath; Indulekha Sudhakaran; Johannes Attems; Tiago Outeiro ; Omar El-Agnaf
116-PO	CHARACTERIZATION OF TWO DISTINCT ALPHA-SYNUCLEIN STRAINS IN A MOUSE MODEL FOR MULTIPLE SYSTEM ATROPHY	Teresa Torre-Muruzabal; Wouter Peelaerts; Luc Bousset; Anke Van Der Perren; Nadia Stefanova; Ronald Melki; Veerle Baekelandt
117-PO	GENERATION, SCREENING AND VALIDATION OF AN ANTIBODY-BASED TOOL BOX THAT ENABLES CAPTURING THE DIVERSITY OF ALPHA-SYNUCLEIN PROTEOFORMS AND PATHOLOGY	Melek Firat Altay; Anne-Laure Mahul-Mellier; Sonia Donzelli; Catherine Strand; Janice Holton; Hilal Lashuel
118-PO	DEVELOPMENT OF ALPHA-SYNUCLEIN SEEDING ASSAY AS AN EARLY, PROGRESSION AND STRATIFYING BIOMARKER FOR SYNUCLEINOPATHIES	Ilaria Poggiolini; Michael Lawton; Yoav Ben-Shlomo; Michele Hu; Elena Antelmi; Britt Mollenhauer; Laura Parkkinen
119-PO	Pathological features recognized by antibodies targeting different epitopes of alpha-synuclein among α -synucleinopathies	Di Liu; Melek Firat Altay; Caroline Haikal; Ann-Laure Mahul; Catherine Strand ; Wen Li ; Janice Holton; Elisabet Englund; Hilal A Lashuel; Jia-Yi Li



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120-PO	EPITOPE-SPECIFIC ALPHA-SYNUCLEIN ANTIBODIES REVEAL DIFFERENT CONFORMATIONS OF LEWY PATHOLOGIES IN VARIOUS STRUCTURES AND BRAIN REGIONS OF A PATIENT WITH DEMENTIA WITH LEWY BODIES	Caroline Haikal Caroline Haikal; Melek Firat Altay; Di Liu; Anne-Laure Mahul-Mellier; Catherine Strand; Wen Li; Janice Holton; Elisabet Englund; Hilal Lashuel; Jia-Yi Li
121-PO	CRITICAL ASSESSMENT OF A-SYNUCLEIN OLIGOMERIZATION BY VENUS BIMOLECULAR FLUORESCENCE COMPLEMENTATION (BIFC): WHAT YOU SEE IS NOT ALWAYS WHAT YOU GET	Bryan Frey; Abdelrahman Alodka; Hilal Lashuel
122-PO	THE NEURODEGENERATIVE POTENTIAL OF CHRONIC STRESS PARADIGMS IN A RAT MODEL OF HUMAN ALPHA-SYNUCLEIN OVEREXPRESSION	Modestos Nakos-Bimpos; Dionysios Palermos; Nicolas Casadei; Olaf Riess; Maria Xilouri; Leonidas Stefanis; Alexia Polissidis
123-PO	GUT FEELING OF A-SYNUCLEIN IN PARKINSON'S DISEASE PROGRESSION	Yogesh Singh; Joan Romani; David Grundmann; Madhuri S Salker; Florian Lang; Hilal Lahshuel; Olaf Rieß; Nicolas Casadei
124-PO	SNCA OVEREXPRESSION IMPACTS GENE-EXPRESSION OF MITOCHONDRIAL PROTEINS IN RAT BRAIN	Nicolas Casadei; Christine Ehrhardt; Eva Haas; Jeannette Hübener-Schmid; Yogesh Singh; Julia Fitzgerald ; Olaf Riess
125-PO	INVESTIGATING THE STATE OF A-SYN AGGREGATION IN PARKINSON'S DISEASE PATIENT-DERIVED ORGANOID	Nadja Gustavsson; Ekaterina Savchenko; Agnes Paulus; Laurent Roybon; Oxana Klementieva
126-PO	DETECTION OF ALPHA-SYNUCLEIN AGGREGATES IN GASTROINTESTINAL BIOPSIES BY PROTEIN MISFOLDING CYCLIC AMPLIFICATION	Alexis Fenyi; Laurène Leclair-Visonneau; Thomas Clairembault; Emmanuel Coron; Michel Neunlist; Ronald Melki; Pascal Derkinderen; Luc Bousset
127-PO	DEVELOPMENT OF MINI-CHAPERONES TO PREVENT AMYLOID FIBRIL PROPAGATION	Maya Bendifallah; Elodie Monsellier; Virginie Redeker; Ronald Melki
128-PO	DIFFERENTIAL EFFECT OF β -SYN CONFORMATIONAL STRAINS ON SEEDING, SPREADING, AND CELLULAR TARGETS IN OLFACTORY-INDUCED SYNUCLEINOPATHY MODEL	Nolwen L. Rey; Luc Bousset; Sonia George; Zachary Madaj; Lindsay Meyerdirk; Emily Schulz; Jennifer A. Steiner; Ronald Melki; Patrik Brundin
129-PO	DEVELOPMENT OF THERAPEUTIC TOOLS TARGETING A-SYNUCLEIN ASSEMBLIES' PROPAGATION IN SYNUCLEINOPATHIES	Maud Landureau; Virginie Redeker; Luc Bousset; Stéphanie Eyquem; Ronald Melki
130-PO	A NIGRAL GENE EXPRESSION SIGNATURE PRECEDING NEURODEGENERATION IN PD MOUSE MODELS	Alessia Sciortino; Sergio Helgueta; Oihane Uriarte Huarte; Mélanie Thomas; Kristopher Schmit; Pierre Garcia; Michel Mittelbronn; Lasse Sinkkonen; Manuel Buttini
131-PO	EXPLORING THE PATHOGENIC INTERACTION BETWEEN DRAB39 AND SYNUCLEIN IN DROSOPHILA	Charlotte Smith; Carlo Breda; Flaviano Giorgini