

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n. 1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera b) della Legge 240/2010 per il settore concorsuale 05/E3 - Biochimica Clinica e Biologia Molecolare Clinica,

settore scientifico-disciplinare BIO/12 - Biochimica Clinica e Biologia Molecolare Clinica

presso il Dipartimento di SCIENZE BIOMEDICHE E CLINICHE "L. SACCO",

(avviso bando pubblicato sulla G.U. n. 23 del 20/03/2020) Codice concorso 4287

Fabio Moda

CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MODA
NOME	FABIO
DATA DI NASCITA	[01, 03, 1982]

**INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)**

Occupation fields

- Clinical neuroscience
- Translational and molecular research focused on neurological disorders
- Laboratory diagnosis in neurodegenerative diseases
- Development of ultrasensitive tests for detecting peripheral biomarkers associated with neurodegenerative diseases

**Work and
research
experiences**

<u>Period</u>	September 2013 - present
Occupation or position held	Senior Researcher at Fondazione IRCCS Istituto Neurologico Carlo Besta , laboratory of Neuropathology (Division of Neurology 5 and Neuropathology) 20133 Milan, Italy.
Main activities and responsibilities	<ul style="list-style-type: none">- Responsible for the BSL3 laboratory (diagnostic and research activities);- Involved in the standard laboratory tests (mainly performed on cerebrospinal fluids) for the diagnosis of neurodegenerative diseases;- Coordinator of a research group whose activities are mainly related to the development of early diagnostic tests using cerebrospinal fluid, olfactory mucosa, blood and urine samples collected from patients with different types of neurodegenerative diseases (Alzheimer's disease, Lewy body dementia, Frontotemporal dementia, Parkinson's disease and related parkinsonisms, prion diseases) with full scientific and financial responsibility;- Coordinator of national and international funded projects (Italian Ministry of Health, Michael J. Fox Foundation, Alzheimer's Association, The Association for Frontotemporal Degeneration).- Supervisor of post-doc, PhD and MSc students;
<u>Period</u>	September 2011 - August 2013
Occupation or position held	Post-doctoral researcher at the University of Texas Health Science Center at Houston (UTHSC-Houston). Department of Neurology. George P. and Cynthia W. Mitchell Center for Research in Alzheimer's Disease and Related Brain Disorders. Protein Misfolding Disorders Laboratory, Houston, TX 77030. USA.
Main activities and responsibilities	<ul style="list-style-type: none">- Manager of the BSL3 laboratory at UTHSC-Houston (Medical School);- Optimization of highly innovative techniques (e.g. Protein Misfolding Cyclic Amplification and Real-Time Quaking Induced Conversion) for the development of early diagnostic tests for Creutzfeldt-Jakob disease (CJD) using cerebrospinal fluids or other peripheral tissues (e.g. urine and blood);- Biochemical and histological characterization of different human and animal prion strains;- Evaluation of the role of stroke and Traumatic Brain Injury (TBI) as risk factors for Alzheimer's disease.

<u>Period</u>	January 2011 - September 2011
Occupation or position held	Researcher at Fondazione IRCCS Istituto Neurologico Carlo Besta , laboratory of Neuropathology (Division of Neurology 5 and Neuropathology) 20133 Milan, Italy.
Main activities and responsibilities	<ul style="list-style-type: none"> - Preclinical therapeutic approaches (based on gene therapy and nanomedicine) to prion diseases in mouse models; - Transmission studies of prions and other amyloidogenic proteins (amyloid-β, α-synuclein and tau) to transgenic mice; - Diagnostic confirmation of human prion diseases based on biochemical and neuropathological analyses of the Central Nervous System collected at autopsy from diseased patients.
<u>Period</u>	January 2008 - December 2010
Occupation or position held	PhD in Translational and Molecular Medicine (DIMET) at Fondazione IRCCS Istituto Neurologico Carlo Besta , laboratory of Neuropathology (Division of Neurology 5 and Neuropathology) 20133 Milan, Italy.
Main activities and responsibilities	<p>a. Assessment of preclinical therapeutic approaches to prion diseases in mouse models</p> <ul style="list-style-type: none"> - Evaluation of gene therapy approaches based on the use of engineered Adeno-Associated-Viruses (AAVs) expressing single chain variable fragment (scFv) antibodies against the prion protein; - Evaluation of nanomedicine approaches based on the use of polyelectrolyte covered gold nanoparticles (AuNPs); - Evaluation of approaches based on the use of humic acids; - Animal handling, monitoring, treatment, surgery and necropsy (anaesthesia, intracerebral AAVs/prions inoculation following detailed stereotaxical coordinates, tail vein injection of AuNPs, behavioural and motor test, intracardiac perfusion, organs collection); - Biochemical and histological analyses of human and mouse tissues; - Neuropathological analyses of mouse brains; - Collaboration with: Department of Neurobiology at the International School for Advanced Studies (SISSA/ISAS) of Trieste (Italy) for <i>in vitro</i> experiments; Department of Molecular Medicine at the International Centre for Genetic Engineering and Biotechnology (ICGEB) of Trieste (Italy) for AAVs production; Department of NanoDiagnostic at the Cluster in Biomedicine (CBM) of Trieste (Italy) for AuNPs production; European Centre for Nanomedicine at "Carlo Besta" Neurological Institute (Italy) for AuNPs studies; Consiglio per la Ricerca e la sperimentazione in Agricoltura (CRA) of Trieste (Italy) for humic acids production. <p>b. Evaluation of the transmissibility of neurodegenerative disease to transgenic mice</p> <ul style="list-style-type: none"> - Involved in the study of vCJD and FTD (Frontotemporal dementia) transmission to transgenic mice expressing human tau protein with P301L mutation;

- Involved in research experiments focused on the study of the susceptibility of transgenic mice expressing human (TgHu) or bovine (TgBovXV) prion protein to different prion strains (sporadic CJD, variant CJD, classical and amyloidotic Bovine Spongiform Encephalopathy);
- Involved in research studies concerning the role of the protease inhibitor "Cystatin C" on prion propagation in transgenic mice overexpressing human cystatin C;
- Involved in research experiments focused on the study of the effects of different therapeutic approaches to modify Alzheimer disease pathology in transgenic mice overexpressing human APP protein.

c. Diagnostic activities on post-mortem human tissues

- Diagnostic confirmation of human prion diseases based on biochemical and neuropathological analyses of the central nervous system collected at autopsy from diseased patients.

Period	January 2007 - January 2008
Occupation or position held	Researcher at Fondazione IRCCS Istituto Neurologico Carlo Besta , laboratory of Neuropathology (Division of Neurology 5 and Neuropathology) 20133 Milan, Italy
Main activities and responsibilities	- research assistant

Education and training

Date	December 2018 - present
Title of qualification	School of specialization in Clinical Pathology and Clinical Biochemistry , Pavia University, Via Forlanini 8, 27100 Pavia (Italy)
Date	May 2019 - May 2028
Title of qualification	National Scientific Qualification to function as associate professor in Biochimica Generale (BIO/10) – (May 10 th , 2019)
Date	October 2018 - October 2027
Title of qualification	<ul style="list-style-type: none"> - National Scientific Qualification to function as associate professor in Biochimica Clinica e Biologia Molecolare Clinica (BIO/12) – (October 5th, 2018) - National Scientific Qualification to function as associate professor in Scienze delle professioni sanitarie e delle tecnologie mediche applicate (MED/46) – (October 15th, 2018)
Date	June 2015
Title of qualification	Registered in the National Council of Biologists , Section A (ID number AA_075317).

State Exam successfully completed at Università degli Studi dell'Insubria in June 2015. Score 179/200

Date	January 2008 - December 2010
Title of qualification	PhD in "Translational and Molecular Medicine" (DIMET) at Milano-Bicocca University, Via Cadore 48, 20052 Monza (Milan) and related experimental activities at Carlo Besta Neurological Institute, 20133 Milan, Italy. PhD project title: "Engineered Adeno-Associated-Viruses expressing anti-PrP molecules and Polyelectrolyte Gold Nanoparticles as new therapeutic strategies for prion diseases in mouse models". Final score: cum laude Tutor: Dr. Fabrizio Tagliavini, Department of Neurology 5 and Neuropathology
Date	October 2004 - October 2006
Title of qualification	MSc in Medical Biotechnologies and Molecular Medicine at University of Milan. Score: 103/110 Internship at Institute of Legal Medicine, Via Mangiagalli 37, 20133 Milan. Tutors: Andrea Piccinini (Department of Forensic Genetic and Haematology) and Antonella Lazzaro (Department of Forensic Histopathology).
Date	October 2001 - July 2004
Title of qualification	Bachelor in Medical Biotechnology at University of Milan. Score: 104/110. Internship at Desio Hospital, via Mazzini 1, 20033 Milan. Tutor: Dr. Laura Colombo, Division of nephrology and dialysis.

Personal skills and competence

Mother tongue	Italian				
Other language(s) Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	C1	C1	C1	C1	C1
	A1	A2	A2	A2	A2
	English				
French					

Common European Framework of Reference (CEF) level

Social skills and competence	Often involved with team tasks, in particular promoting collaboration with other research groups; First aid provider with regional certification obtained in October 2005; Authorized to use the External Automatic Defibrillator (AED) for cardiopulmonary resuscitation (ILCOR guidelines 2005); Director of Carlo Besta Institute Choir "Ida Milanese".
------------------------------	---

Organizational skills and competence Independent, able to promote multidisciplinary-collaborations and work in team. Supervisor of MSc, PhD and post-graduate students and able to write research proposal, papers, book chapters, data reports (as further detailed below).

Computer skills and competence

- European Computer Drive Licence (ECDL) obtained in May 2002
- Experienced with the use of Microsoft Office (Word, Power Point, Excel);
- Experienced with the use of programs for data analysis (GraphPad and NisElements);
- Experienced with the use of Adobe PhotoShop and Acrobat Reader;
- Proficient in using Internet Explorer and skilled with the use of PubMed, OVID, Sbbi and MedLine.

Employed laboratory techniques

Histology

- Practiced in several histological procedures (fixation, dehydration, inclusion) for the analysis of human and animal tissues (mouse, hamster, dog);
- Able to cut paraffin embedded tissues with rotative and sledge microtomes;
- Expert in histochemical and immunohistochemical techniques;
- Microscopic identification of the principal neuropathological alterations associated with different neurodegenerative diseases (e.g. prion, Alzheimer and Parkinson's disease);
- Able to use optical, fluorescent and confocal microscopes.

Biochemistry

- Tissue homogenization;
- Protein purification and quantification (BCA);
- SDS-PAGE;
- Western blot;
- Immunohistoblot;
- Dot blot;
- Protein Misfolding Cycling Amplification (PMCA);
- Real Time Quaking-Induced Conversion (RT-QuIC);
- Sandwich ELISA.

Molecular biology

- DNA extraction from fresh tissues;
- PCR;
- DNA purification and enzymatic digestion.

Animals handling

- Intraperitoneal and gas anesthesia procedures (mouse and hamster);
- Behavioural tests (mouse): object recognition, barnes maze;
- GAVAGE, gastric administration (mouse);
- Intracardiac perfusion (mouse and hamster);
- Blood collection (mouse and hamster);
- Stereotaxical inoculation in detailed brain regions (mouse);
- Necroscopy and relative organs collection (mouse and hamster).

Courses and workshop attendance

- "Postdoctoral Certificate Training Program" September 8th, 2011 – July 31st, 2013. University of Texas at Houston (USA);
- "Animal training course" September 14th – October 11st 2011. University of Texas Health Science Center at Houston (USA);
- "Introductory PhD course in translational medicine" November 8th -12nd 2010. Istituto di Ricerche Farmacologiche Mario Negri, Milan (Italy);
- "Workshop on the epidemiology of human and animal TSEs" April 30th 2010. Torino (Italy);
- "Corso introduttivo alla sperimentazione animale indirizzato a ricercatori e personale impiegato nella sperimentazione animale" February 23rd – March 25th 2010. Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna, Milan (Italy);
- "3rd International Workshop SISSA/ELETTRA PRION research workshop" January 11th 2010. Scuola Internazionale Superiore di Studi Avanzati, Trieste (Italy);
- "Rischio da gas anestetici per uso sperimentale su animali: operare in sicurezza" July 14th 2009. Milan (Italy);
- "Human and animal TSE" June 26th-28th 2008. Grado (Italy);
- "Italian MRI/MRS users' meeting" June 25th 2008. Milan (Italy);
- "Basic Course of Neuropathology" organized by EURO-CNS March 10th-14th 2008. Aachen (Germany);
- "Strumenti di ricerca dell'informazione biomedica in formato elettronico attraverso il sistema bibliotecario biomedico lombardo (SBBL)" February 21th 2007. Milan (Italy).

List of posters/oral presentations, publications, invited courses and seminars, awarded grants and special recognitions.

Posters and oral communications

- 1- **Moda F.**, Lovisolo A., De Giorgio B., Lazzaro A., Gentile G., Cattaneo C., Piccinini A.: "*Protocollo operativo per lo studio della correlazione tra analisi istomorfologica del tessuto osseo e analisi genetico-identificativa*". XXI Convegno Nazionale GeFI (Gruppo Genetisti Forensi Italiani) September 5-7th 2006, Lipari (Italy). Poster presentation.
- 2- Molteni R., Gentile G., Lazzaro A., **Moda F.**, Roselli M. R., Sangiorgio P., Taborelli A.: "*Su due casi di morte improvvisa del giovane adulto con riscontro di cardiomiopatia aritmogena del ventricolo destro (ARVC)*". V Congresso Nazionale COMLAS (Coordinamento dei Medici Legali delle Aziende Sanitarie) November 8-11th 2006, Genova (Italy). Oral communication.

- 3- Molteni R., Gentile G., Lazzaro A., **Moda F.**, Roselli M. R., Taborelli A.: *"Il rischio infettivo da cadavere: riconoscimento e protezione"*. V Congresso Nazionale COMLAS (Coordinamento dei Medici Legali delle Aziende Sanitarie) November 8-11th 2006, Genova (Italy). Poster presentation.
- 4- Arcari V. E., Gentile G., Lazzaro A., **Moda F.**, Molteni R., Roselli M. R., Taborelli A. : *"Segnalazione di due casi di SIDS con reperto istomorfologico indicativo di funzionalità cardiorespiratoria"*. V Congresso Nazionale COMLAS (Coordinamento dei Medici Legali delle Aziende Sanitarie) November 8-11th 2006, Genova (Italy). Poster presentation.
- 5- Molteni R., Gentile G., Lazzaro A., **Moda F.**, Roselli M. R., Taborelli A.: *"Diagnosi post-mortem di meningite batterica in soggetto adulto"*. V Congresso Nazionale COMLAS (Coordinamento dei Medici Legali delle Aziende Sanitarie) November 8-11th 2006, Genova (Italy). Poster presentation.
- 6- Limido L., Mangieri M., Capobianco R., **Moda F.**, Vimercati C., Campagnani I., Catania M., Ghetti B., Giaccone G., Levy E., Tagliavini F.: *"Role of cystatin C in prion propagation and prion disease pathogenesis"*.
 - International Congress NeuroPrion, September 26-28th 2007, Edinburgh (Scotland). Poster presentation;
 - XLIII Congresso Nazionale AINP (Associazione Italiana NeuroPatologia) September 30th – October 3rd 2007, Verona (Italy). Abstract published in *Clinical Neuropathology* 26 (5):253; 2007. Poster presentation.
- 7- Campagnani I., Vimercati C., Ruggerone M., **Moda F.**, Suardi S., Bishop M., Manson J., Tagliavini F.: *"Experimental transmission of sporadic CJD variants to transgenic mice expressing human PrP with different codon 129 genotype"*. XLV Congresso nazionale AINP e XXXV congresso AIRIC" June 3-6th 2009, Bologna (Italy). Abstract published in *Clinical Neuropathology* 28 (3): 223; 2009. Poster presentation.
- 8- **Moda F.**, Legname G., Zentilin L., Giacca M., Vimercati C., Suardi S., Campagnani I., Ruggerone M., Tagliavini F.: *"Engineered Adeno-Associated-Viruses as new therapeutic strategy for prion disease"*.
 - XLV Congresso AINP e XXXV congresso AIRIC June 3-6th 2009, Bologna (Italy). Abstract published in *Clinical Neuropathology* 28 (3):235; 2009. Oral Communication;
 - International Congress Neuroprion, September 23-25th 2009, Tessaonica (Greece). Poster presentation.
- 9- Ai Tran H.N., Sousa F., Mandal S., **Moda F.**, Tagliavini F., Krol S. and Legname G.: *"Inhibition of scrapie prion replication by polyelectrolyte nanogold particles"*. International Congress Neuroprion, September 23-25th 2009, Tessaonica (Greece). Poster presentation.
- 10- Koren S., Kosmač M., Vranac T., **Moda F.**, Suardi S., Bresjanac M., Giachin G., Gennaro R., Tagliavini F., Legname G., Šerbec V.: *"Discrimination between prion-infected and normal brain with monoclonal antibodies specific for C-terminally truncated PrP fragment"*. International Congress Neuroprion, September 23-25th 2009, Tessaonica (Greece). Poster presentation.
- 11- Suardi S., Vimercati C., **Moda F.**, Ruggerone M., Campagnani I., Lombardi G., Capucci L., Groschup M.H., Buchmann A., Casalone C., Caramelli M., Monaco S., Zanusso G., Tagliavini F.: *"Infectivity in skeletal muscle of BASE-infected cattle"*. International Congress Neuroprion, September 23-25th 2009, Tessaonica (Greece). Poster presentation.
- 12- **Moda F.**, Legname G., Krol S., Campagnani I., Ruggerone I., Vimercati C., Zentilin L., Giacca M., Sousa F., Morbin M., Giaccone G., Tagliavini F.: *"Engineered Adeno-Associated Viruses and Polyelectrolyte Gold Nanoparticles as new therapeutic approaches for prion disease"*. 3rd International Workshop SISSA/ELETTRA PRION research workshop, January 11th 2010, Trieste (Italy). Oral Communication.
- 13- Koren S., Kosmac M., Giachin C., **Moda F.**, Gennaro R., Bresjanac M., Tagliavini F., Legname G., Šerbec V.C.: *"Monoclonal antibodies that discriminate between prion-infected and normal brain tissue"*

are specific for a C-terminally truncated prion protein fragment". 3rd International Workshop SISSA/ELETTRA PRION research workshop. January 11th 2010, Trieste (Italy). Poster presentation.

- 14- Giaccone G., Botta M., Di Fede G., **Moda F.**, Catania M., Morbin M., Tagliavini F.: "*Familial Alzheimer's disease associated with the A673V APP recessive mutation presents a distinctive neuropathological phenotype*".
 - XLVI Congresso AINP e XXXVI congresso AIRIC. May 23-25th 2010, Squillace (Italy). Poster presentation
 - XVIIth International Congress of Neuropathology ICN. September 11-15th 2010, Salzburg (Austria). Abstract published in Brain Pathology, 20 (Suppl 1) 21, 2010.
- 15- **Moda F.**, Giaccone G., Di Fede G., Terruzzi A., Suardi S., Tagliavini F.: "*Neuropathological and biochemical characterization of unusual cases of Creutzfeldt-Jakob disease in young, PRNP 129MM subjects*". International Congress Neuropion September 8-11th 2010, Salzburg (Austria). Abstract published in Prion, 4(3); 2010. Poster presentation.
- 16- Ai H.N.T., Sousa F.*, **Moda F.***, Mandal S., Chanana M., Vimercati C., Ruggerone M., Campagnani I., Morbin M., Krol S., Tagliavini F. and Legname G.: "*Coated nanogolds as novel potent anti-prion compounds*". International Congress Neuropion September 8-11th 2010, Salzburg (Austria). Abstract published in Prion, 4(3): 210, 2010. Poster presentation
- 17- **Moda F.**, Vimercati C., Campagnani I., Ruggerone M., Zentilin L., Giacca M., Krol S., Sousa F., Morbin M., Giaccone G., Legname G., Tagliavini F.: "*Engineered Adeno-Associated Viruses expressing anti-PrP molecules and polyelectrolyte gold nanoparticles as new therapeutic strategies for prion diseases in mouse models*". 4th International Workshop SISSA/ELETTRA PRION research workshop, January 10th 2011, Trieste (Italy). Oral Communication
- 18- Moro M.L., Catania M., Di Fede G., **Moda F.**, Viscomi A.R., Colombo L., Uggetti A., Giaccone G., Morbin M., Salmona M., Tagliavini F.: "*Distinctive Oligomeric Profile of the Recessive A673V APP Mutation*". 10th International Congress on Alzheimer's and Parkinson's disease (AD/PD). March 9-13th 2011, Barcelona (Spain). Poster presentation.
- 19- Di Fede G., Catania M., Moro M.L., Ghidoni R., Albertini V., Giaccone G., Morbin M., Uggetti A., **Moda F.**, Salmona M., Tagliavini F.: "*Recessive A673V APP Mutation: Central Role of Mutant A β 1-40 in Oligomerization and Amyloidogenesis*". International Congress". 10th International Congress on Alzheimer's and Parkinson's disease (AD/PD). March 9-13th 2011, Barcelona (Spain). Poster presentation.
- 20- Brunetti D., Dusi S., **Moda F.**, Uggetti A., Lamperti C., Tsujimoto Y., Morbin M., Tiranti V.: "*Ketogenic diet accelerates the onset of disease in a PLA2G6 KO mouse model*". European Human Genetics Conference. May 28-31st 2011, Amsterdam (Netherlands). Poster presentation.
- 21- Marcon G., Giaccone G., Indaco A., Moro M. **Moda F.**, Cupidi C., Bruni A., Demarchi A., Bogdanovic N., Ghetti B., Tagliavini F.: "*Alzheimer disease: APP mutations are associated with high percentage of cerebral amyloid deposits containing A β 40*". XLVII Congresso AINP e XXXVII congresso AIRIC. May 19-21st 2011, Genova (Italy). Poster presentation.
- 22- **Moda F.**, Giaccone G., Di Fede G., Terruzzi A., Fociani P., Suardi S., Tagliavini F.: "*Widening the spectrum of MM2-thalamic form of Creutzfeldt Jakob Disease*". XLVII Congresso AINP e XXXVII congresso AIRIC. May 19-21st 2011, Genova (Italy). Poster presentation.

- 23- **Moda F.**, Vimercati C., Campagnani I., Ruggerone M., Morbin M., Giaccone G., Zentilin L., Giacca M., Legname G., Tagliavini F.: "*Brain delivery of AAV9 expressing anti-PrP molecules delays prion disease onset in mice*". International Congress Prion2011 May 16-19th 2011, Montreal (Canada). Abstract published in Prion, 5: 135, 2011. Poster presentation. (**Poster prize winner**)
- 24- Brunetti D., Dusi S., **Moda F.**, Uggetti A., Lamperti C., Tsujimoto Y., Morbin M., Tiranti V.: "*Ketogenic diet accelerates the onset of disease in a PLA2G6 KO mouse model*". V Meeting on the Molecular Mechanisms of Neurodegeneration. May 13-15th, 2011, Milan (Italy). Poster presentation.
- 25- Brunetti D., Dusi S., **Moda F.**, Uggetti A., Morbin M., Hayflick S., Tiranti V.: "*Pantothenate kinase-associated neurodegeneration: further investigations of a PANK2 KO mouse model*". European Meeting mitochondrial pathology (EUROMIT.8) June 20-23rd 2011, Zaragoza (Spain). Poster presentation.
- 26- Tran A.H.N., Le T.T.N., **Moda F.**, Zucca P., Tagliavini F., Gustincich S., Legname G.: "*Human α -synuclein fibrils induce α -synuclein aggregation in vitro and behavioral alterations in vivo upon inoculation in wildtype mice*". XIX World Congress on Parkinson's Disease and Related Disorders. December 11-14th 2011, Shanghai (China). Poster presentation
- 27- Ruggerone M., Suardi S., **Moda F.**, Campagnani I., Vimercati C., Fociani P., Bishop M.T., Will R.G., Manson J.C., Giaccone G., Tagliavini F.: "*Transmission studies of a mixed MV sporadic Creutzfeldt-Jakob disease in transgenic mice models*". International Congress Prion2012 May 9-12th 2012, Amsterdam (Netherlands). Abstract published in Prion. Poster presentation
- 28- Suardi S., **Moda F.**, Di Fede G., Indaco A., Ruggerone M., Campagnani I., Langeveld J., Terruzzi A., Brambilla A., Zerbi P., Fociani P., Bishop M.T., Will R.G., Manson J.C., Giaccone G., Tagliavini F.: "*MM2-thalamic Creutzfeldt-Jakob disease: neuropathological, biochemical and transmission studies identify a distinctive prion strain*". International Congress Prion2012 May 9-12th 2012, Amsterdam (Netherlands). Abstract published in Prion. Poster presentation
- 29- Di Fede G., Catania M., Giaccone G., Ghidoni R., Albertini V., **Moda F.**, Kubis A., Moro M.L., Ruggerone M., Tagliavini F.: "*Phenotypic heterogeneity of Alzheimer's disease: towards the identification of molecular determinants underlying distinct clinico-pathological subgroups*". VII Congresso Sindem, Italian Society for the study of Dementia. March 22-24th 2012, Naples (Italy). Poster presentation.
- 30- Di Fede G., Ghidoni R., Catania M., Giaccone G., Benussi L., **Moda F.**, Gobbi M., Moro M.L., Kubis A., Ruggerone M., Ghetti B., Binetti G., Salmona M., Tagliavini F.: "*Phenotypic heterogeneity of Alzheimer's disease: towards the identification of molecular determinants underlying distinct clinico-pathological subgroups*". Alzheimer's Association International Conference (AAIC). July 14-19th 2012, Vancouver (Canada). Poster presentation
- 31- Tagliavini F., Di Fede G., Catania M., **Moda F.**, Kubis A., Maderna E., Ruggerone M., Giaccone G., Morbin M., Moro M., Ghidoni R., Albertini V., Ghetti B.: "*Phenotypic Heterogeneity of Alzheimer Disease Is Paralleled by Differences in A β Species Profile and Propagation of Amyloidosis in Animal Models*". International Congress". 11st International Congress on Alzheimer's and Parkinson's disease (AD/PD). March 6-10th 2013, Florence (Italy). Poster presentation.
- 32- Tran Thanh N.L., Hoang Ngoc A.T., Aulic S., **Moda F.**, Zucca P., Tagliavini F., Gustincich S., Legname G.: "*Parkinson's Disease as Prion Disorder*". International Congress". 11st International Congress on Alzheimer's and Parkinson's disease (AD/PD). March 6-10th 2013, Florence (Italy). Poster presentation.
- 33- **Moda F.**, Notari S., Gambetti P., Fugnanesi V., Park K.W., Morbin M., Suardi S., Tagliavini F., Soto C.: "*Prion detection in urine of patients with variant Creutzfeldt-Jakob disease*". International Congress

- Prion2013 May 26-29th 2013, Banff (Canada). Abstract published in Prion, vol 7 (suppl): 15; 2013. Oral communication
- 34- Pritzkow S., Morales R., **Moda F.**, Soto C.: "Prion-contaminated plants can transmit prion disease". International Congress Prion2013 May 26-29th 2013, Banff (Canada). Abstract published in Prion, vol 7 (suppl): 15; 2013. Poster presentation
 - 35- Tran Thanh N.L., Hoang Ngoc A.T., Aulic S., **Moda F.**, Zucca P., Tagliavini F., Gustincich S., Legname G.: "*Synthetic human α -synuclein prions*". International Congress Prion2013 May 26-29th 2013, Banff (Canada). Abstract published in Prion, vol 7 (suppl): 15; 2013. Oral communication
 - 36- Di Fede G., Diomedede L., Catania M., Maderna E., **Moda F.**, Ruggerone M., Romeo M., Morbin M., Palamara L., Campagnani I., Colombo L., Rossi A., Cagnotto A., Messa M., De Luigi A., Mancini S., Stravalaci M., Gobbi M., Borsello T., Salmona M., Tagliavini F.: "*Targeting β -amyloid by the A2V A β variant: a novel disease-modifying strategy for the treatment of Alzheimer's disease*". XI National Conference SINDEM March 13-15th 2014, Florence (Italy). Oral communication
 - 37- Armijo E., Edwards III G., **Moda F.**, Flores A., Gonzalez C., Soto C.: "*Induced pluripotent stem cells-derived neuronal precursors improves behavior and pathology in a mouse model of Alzheimer's disease*". Keystone Symposia on molecular and cellular biology April 6-11st 2014, California (USA). Poster presentation
 - 38- **Moda F.**, Gambetti P., Catania M., Concha Marambio L.M., Maderna E., Notari S., Park K.W., Pan I., Haik S., Brandel J.P., Ironside J., Knight R., Suardi S., Tagliavini F., Soto C.: "Prion detection in urine of patients with variant Creutzfeldt-Jakob disease: an update". International Congress Prion2014 May 27-30th 2014, Trieste (Italy). Abstract published in Prion, vol 4 (suppl): 23; 2014. Oral communication
 - 39- **Moda F.**, Suardi S., Giaccone G.: "Malattia di Creutzfeldt-Jakob: test diagnostici ultrasensibili su liquidi biologici e tessuti periferici. Prospettive per altre malattie neurodegenerative". Convegno Besta 3.0 May 12-14th 2014, Milan (Italy). Poster presentation
 - 40- Barbisin M., Vanni S., **Moda F.**, Virgilio T., Tagliavini F., Legname G.: "Validation of a novel disease gene signature in CJD brains". International Congress AD/PD March 18-22nd 2015, Nice (France). Poster presentation
 - 41- Moda F., Le N.T.T., Virgilio T., Mazzetti S., Aulić S., Palamara L., Campagnani I., Andréoletti O., Tagliavini F., Legname G.: "Distinct neuropathological alterations produced by a synthetic prion strain de novo generated in vitro: conformational instability before adaptation". International Congress Prion2015 May 26-29th 2015, Colorado (Canada). Abstract published in Prion 2015; 9(sup1): S11–S99. Poster presentation
 - 42- Figini M., Scotti A., Zucca I., Maderna E., Ruggerone M., Catania M., Di Fede G., **Moda F.**, Tagliavini F., Bruzzone M.G.: "Mean diffusivity as a non-invasive biomarker of the amount of amyloid plaques in Alzheimer's disease: a preliminary evaluation in a mouse model". 23rd Annual Meeting & Exhibition, International Society for Magnetic Resonance in Medicine. May 30th – June 5th 2015, Toronto (Canada). Poster presentation
 - 43- Vanni S., Barbisin M., **Moda F.**, Virgilio T., Giaccone G., Tagliavini F., Legname G.: "Gene expression profiling of CJD brains: validation of a novel disease signature for neurodegeneration in primates". The Alzheimer's Association International Conference (AAIC). July 18-23rd 2015, Washington D.C. (USA). Poster presentation

- 44- Gandini A., **Moda F.**, Legname G., Bolognesi M.L.: "A solvent-free, microwave assisted Knoevenagel condensation for the synthesis of a focused library of thiazolidinediones derivatives for neurodegenerative diseases". XV Giornata della Chimica dell'Emilia Romagna. December 18th 2015, Modena (Italy). Poster presentation
- 45- Vanni S., Barbisin M., **Moda F.**, Giaccone G., Tagliavini F., Haïk S., Deslys J.P., Zanusso G., Legname G.: "Gene expression profiling of prion-Infected brains: a novel disease signature for neurodegeneration in humans". International Congress EB (Exerimental Biology) April 2-6th 2016, San Diego (USA). Poster presentation
- 46- **Moda F.**, Redaelli V., Bistaffa E., Roiter I., Artuso V., Zanusso G., Sacchetto L., Forloni G., Legname G., Tagliavini F.: "Assessment of doxycycline treatment on prion deposition in the olfactory epithelium of patients with Fatal Familial Insomnia: possible mirroring of the CNS alterations". International Congress Prion2016 March 10th-13th 2016, Tokio (Japan). Poster presentation
- 47- Maderna E., Cattaneo C., De Luca C.M.G., Bistaffa E., Zanusso G., Redaelli V., Sacchetto L., Giaccone G., Legname G., Tagliavini F., **Moda F.**: "Detection of misfolded proteins in the olfactory bulbs of non-demented individuals". Evento Congiunto AINP-AIRIC May 26-28th 2016, Rome. Poster presentation
- 48- Scialò C., Caponnetto C., Mancardi L.G., De Rosbo N.K., Uccelli A., Bistaffa E., Maderna E., Giaccone G., Tagliavini F., **Moda F.**: "In vitro aggregation assay of the transactive response (TAR) DNA-binding protein of 43-kDa (TDP-43)". XLVII Congresso della Società Italiana di Neurologia, October 22-25th 2016, Venice (Italy). Poster presentation
- 49- Rolle I.G., Bistaffa E., **Moda F.**, Bock H., Korth C., Legname G.: "Prion protein involvement in Dab1 signaling: physiological and pathological aspects". Federation of European Neuroscience Societies (FENS), July 2-6th 2016, Copenhagen (Denmark). Poster presentation
- 50- Bistaffa E., Virgilio T., Campagnani I., Rossi M., De Luca C.M.G., Salzano G., Giaccone G., Tagliavini F., **Moda F.** and Legname G.: "Effects of the environment on synthetic prion replication". Prion2017, May 23-26th 2017 Edinburgh (UK). Poster presentation
- 51- Vanni S., Zattoni M., **Moda F.**, Giaccone G., Tagliavini F., Haïk S., Deslys J.P., Zanusso G., Ironside J.W., Ferrer I., Legname G.: "Increased haemoglobin gene expression in vCJD patients" Prion2017 May 23-26th 2017 Edinburgh (UK). Poster presentation
- 52- Aulic S., Narkiewicz J., Bistaffa E., Ambrosetti E., Pastore B., De Cecco E., Scaini D., **Moda F.**, Tagliavini F., Legname G.: "α-Synuclein Amyloids Bind To Prion Protein to Facilitate Cell Entry, Cell-To-Cell Spreading And Inhibit Prion Replication" Prion2017 May 23-26th 2017 Edinburgh (UK). Oral communication
- 53- Giuseppe G., Bistaffa E., **Moda F.** : "Synthetic prions: success and contention". Asian Pacific Prion Symposium (APPS) October 20-21st 2017 Melbourne (Australia). Oral communication
- 54- Gandini A., Petralla S., Bartolini M., Zuccheri G., Perez D.I., **Moda F.**, Monti B., Martinez A., Legname G., Bolognesi M.L.: "Targeting tau cascade with multi-target thiazolidinedione-based compounds for the treatment of Alzheimer's disease". XVII giornata di chimica dell'Emilia Romagna, December 1st 2017. Bologna (Italy). Oral communication

- 55- Rossi M., Olivieri D., De Cecco E., Bistaffa E., De Luca C.M.G., Colombo L., Narkiewicz J., Redaelli V., Salmona M., Legname G., Caroppo P., Giaccone G. and **Moda F.**: "Interaction of tau with other amyloidogenic proteins modifies its aggregation properties". AAT-AD/PD Focus Meeting, March 15-18th 2018, Torino (Italy). Poster presentation (Winner of the Rita Levi Montalcini Award)
- 56- Bistaffa E., **Moda F.**, Virgilio T., Campagnani I., De Luca C.M.G., Rossi M., Salzano G., Giaccone G., Tagliavini F., Legname G.: "Synthetic prions selection and adaptation". Evento Congiunto AINPeNC-AIRIC May 17-19th 2018, Milan. Poster presentation
- 57- Giaccone G., Indaco A., **Moda F.**, Maderna E., Bistaffa E., Di Fede G., Catania M., Fociani P., Galimberti D., Fenoglio C., Fumagalli G. G., Scarpini E., Tagliavini F.: "Neuropathological, biochemical and prion protein aggregation properties of a patients with PRNP P39L variant clinically presenting as frontotemporal dementia" Evento Congiunto AINPeNC-AIRIC May 17-19th 2018, Milan. Oral communication
- 58- De Luca C.M.G., Narkiewicz J., Rossi M., Bistaffa E., De Cecco E., Redaelli V., Romito L., Elia A.E., Eleopra R., Legname G., Giaccone G., **Moda F.**: "Modification of α -synuclein aggregation in the presence of distinct synthetic seeds or olfactory mucosa samples collected from patients with dementia". Evento Congiunto AINPeNC-AIRIC May 17-19th 2018, Milan. Poster presentation
- 59- Olivieri D., De Luca C.M.G., Bistaffa E., Rossi M., Colombo L., Rossi G., Tiraboschi P., Redaelli V., Di Fede G., Giaccone G., Caroppo P., **Moda F.**: "Detection of misfolded TDP-43 in the CSF of GRN and C9orf72 mutation carriers: a pilot study". Evento Congiunto AINPeNC-AIRIC May 17-19th 2018, Milan. Poster presentation
- 60- Redaelli V., Scaioli V., Giaccone G., Curzi S., Franceschetti S., Bizzi A., **Moda F.**, Bugiani O., Tagliavini F.: "Retinal involvement in human prion diseases: neurophysiological and neuropathological study". Evento Congiunto AINPeNC-AIRIC May 17-19th 2018, Milan. Poster presentation
- 61- Rossi M., De Cecco E., De Luca C.M.G., Redaelli V., Bistaffa E., Narkiewicz J., Romito L., Elia A.E., Eleopra R., Legname G., Giaccone G., **Moda F.**: "Evaluation of the effects that synthetic, brain, or olfactory mucosa-derived pathological seeds exert on tauK18 aggregation." Evento Congiunto AINPeNC-AIRIC May 17-19th 2018, Milan. Poster presentation
- 62- Bistaffa E., **Moda F.**, Virgilio T., Campagnani I., De Luca C.M.G., Rossi M., Salzano G., Giaccone G., Tagliavini F., Legname G.: "Synthetic prion selection and adaptation". Prion2018, May 23-25th 2018 Santiago de Compostela (Spain). Poster Presentation
- 63- De Luca C.M.G., Bistaffa E., Rossi M., Narkiewicz J., De Cecco E., Redaelli V., Romito L.M., Elia A., Cantele F., Calogero A.M., Cappelletti G., Mazzetti S., Eleopra R., Legname G., Giaccone G., **Moda F.**: "Cross-interaction between α -synuclein and other amyloidogenic proteins: preliminary aggregation and morphological studies". Prion2018, May 23-25th 2018 Santiago de Compostela (Spain). Poster Presentation
- 64- Notari S., **Moda F.**, Cali I., Lavrich J., Tagliavini F., Soto C., Gambetti P.: "PMCA-replicated PrPSc in urine of vCJD patients maintains strain characteristics of brain PrPSc: Transmission study". Prion2018, May 23-25th 2018 Santiago de Compostela (Spain). Poster Presentation
- 65- Marín-Moreno A., Tran T.H., Espinosa J.C., Bistaffa E., **Moda F.**, Torres J.M. Legname G.: "Spontaneous neurodegeneration in transgenic mice caused by histidine to tyrosine substitution at non-OR copper-binding site". Prion2019, May 21-24th 2019 Edmonton (Canada). Poster Presentation

- 66- Bistaffa E., Vuong T.T., Tran L., Cazzaniga F.A., Salzano G., Legname G., Giaccone G., Benestad S., **Moda F.**: "Evaluation of the sensitivity of different RT-QulC substrates in detecting and characterizing CWD prions in brains of Norwegian cervids". Prion2019, May 21-24th 2019 Edmonton (Canada). Poster Presentation
- 67- De Luca C.M.G., Elia A.E., Portaleone S.M., Cazzaniga F.A., Rossi M., Bistaffa E., De Cecco E., Narkiewicz J., Salzano G., Carletta O., Romito L., Devigili G., Soliveri P., Tiraboschi P., Legname G., Tagliavini F., Eleopra R., Giaccone G., **Moda F.**: "Efficient RT-QulC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and Multiple System Atrophy". Prion2019, May 21-24th 2019 Edmonton (Canada). Oral communication
- 68- Rossi M., De Luca C.M.G., De Cecco E., Narkiewicz J., Salzano G., Portaleone S.M., Elia A.E., Eleopra R., Legname G., Giaccone G., **Moda F.**: "Evaluating the applicability of tauK18 as RT-QulC reaction substrate for the analysis of samples collected from patients with neurodegenerative disorders". Prion2019, May 21-24th 2019 Edmonton (Canada). Poster presentation
- 69- De Luca C.M.G., Elia A.E., Portaleone S.M., Cazzaniga F.A., Rossi M., Bistaffa E., De Cecco E., Narkiewicz J., Salzano G., Carletta O., Romito L., Devigili G., Soliveri P., Tiraboschi P., Legname G., Tagliavini F., Eleopra R., Giaccone G., **Moda F.**: "Efficient RT-QulC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and Multiple System Atrophy". Miniworkshop e Convegno CIMN "Misfolding proteico e amiloidosi XIII", May 23-24th 2019 Genova (Italy). Oral communication
- 70- Bistaffa E., Rossi M., De Luca C.M.G., Cazzaniga F., Carletta O., Campagnani I., Tagliavini F., Legname G., Giaccone G., **Moda F.**: "Prion efficiently replicates in α -synuclein knockout mice". Evento Congiunto AINPeNC-AIRIC May 23-25th 2019, Bologna (Italy). Poster presentation
- 71- Cazzaniga F.A., De Luca C.M.G., Elia A.E., Portaleone S.M., Rossi M., Bistaffa E., De Cecco E., Narkiewicz J., Salzano G., Carletta O., Romito L., Devigili G., Soliveri P., Tiraboschi P., Legname G., Tagliavini F., Eleopra R., Giaccone G., **Moda F.**: "Efficient RT-QulC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and Multiple System Atrophy". Evento Congiunto AINPeNC-AIRIC May 23-25th 2019, Bologna (Italy). Oral communication
- 72- Bistaffa E., Banchelli M., D'Andrea C., Cabaj L., Giaccone G., Skupień K., Matteini P., **Moda F.**: "Surface-enhanced Raman scattering with nanophotonic and biomedical amplifying systems for an early diagnosis of Alzheimer's disease pathology". Speedy meeting, Bratislava. Poster presentation
- 73- Cazzaniga F.A., De Luca C.M.G., Elia A.E., Portaleone S.M., Rossi M., Bistaffa E., De Cecco E., Narkiewicz J., Salzano G., Carletta O., Romito L., Devigili G., Soliveri P., Tiraboschi P., Legname G., Tagliavini F., Eleopra R., Giaccone G., **Moda F.**: "Efficient RT-QulC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and Multiple System Atrophy". 51° Congresso SIBioC Medicina di Laboratorio – 22nd November 2019, Padova (Italy). Oral communication

Publications

H-index: 15 (Scopus, updated on April 2020)

- 1- Ai Tran H.N. *, Sousa F. *, **Moda F.** *, Mandal S., Chanana M., Vimercati C., Morbin M., Krol S., Tagliavini F., Legname G.: "A novel class of potential prion drugs: preliminary in vitro and in vivo data for multilayer coated gold nanoparticles." *Nanoscale*. 2010 Dec;2(12):2724-32. Epub 2010 Oct 14. (* these authors equally contributed to the work).
- 2- Giaccone G., Morbin M., **Moda F.**, Botta M., Mazzoleni G., Uggetti A., Catania M., Moro M.L., Redaelli V., Spagnoli A., Rossi R.S., Salmona M., Di Fede G., Tagliavini F.: "Neuropathology of the recessive A673V APP mutation: Alzheimer disease with distinctive features." *Acta Neuropathol*. 2010 Dec;120(6):803-12.
- 3- **Moda F.**, Suardi S., Di Fede G., Indaco A., Limido L., Vimercati C., Ruggerone M., Campagnani I., Langeveld J., Terruzzi A., Brambilla A., Zerbi P., Fociani P., Bishop M.T., Will R.G., Manson J.C., Giaccone G., Tagliavini F.: "MM2-thalamic Creutzfeldt-Jakob disease: neuropathological, biochemical and transmission studies identify a distinctive prion strain." *Brain Pathol*. 2012 Sep;22(5):662-669.
- 4- Suardi S., Vimercati C., Casalone C., Gelmetti D., Corona C., Iulini B., Mazza M., Lombardi G., **Moda F.**, Ruggerone M., Campagnani I., Piccoli E., Catania M., Groschup M.H., Balkema-Buschmann A., Caramelli M., Monaco S., Zanusso G., Tagliavini F.: "Infectivity in Skeletal Muscle of Cattle with Atypical Bovine Spongiform Encephalopathy". *PLoS One*. 2012;7(2):e31449.
- 5- **Moda F.**, Vimercati C., Campagnani I., Ruggerone M., Giaccone G., Morbin M., Zentilin L., Giacca M., Zucca I., Legname G., Tagliavini F.: "Brain Delivery of AAV9 Expressing an Anti-PrP Monovalent Antibody Delays Prion Disease in Mice". *Prion*. 2012 Sep 1;6(4):383-90.
- 6- Wilson R., Plinston C., Hunter N., Casalone C., Tagliavini F., Suardi S., Ruggerone M., **Moda F.**, Graziano S., Sbriccoli M., Cardone F., Pocchiari M., Ingrosso L., Baron T., Richt J., Andreoletti O., Simmons M., Lockey R., Manson J.C., Barron R.M.: "Chronic wasting disease and atypical forms of bovine spongiform encephalopathy and scrapie are not transmissible to mice expressing wild-type levels of human prion protein." *J Gen Virol*. 2012 Jul;93(Pt 7):1624-9.
- 7- Brunetti D., Dusi S., Morbin M., Uggetti A., **Moda F.**, D'Amato I., Giordano C., d'Amati G., Cozzi A., Levi S., Hayflick S., Tiranti V.: "Pantothenate kinase-associated neurodegeneration: altered mitochondria membrane potential and defective respiration in Pank2 knock-out mouse model". *Hum Mol Genet*. 2012 Dec 15;21(24):5294-305.
- 8- Aulic S., Le N.T., **Moda F.**, Abounit S., Corvaglia S., Casalis L., Gustincich S., Zurzolo C., Tagliavini F., Legname G.: "Defined alfa-synuclein prion-like molecular assemblies spreading in cell culture". *BMC Neurosci*. 2014 Jun 4;15:69.
- 9- **Moda F.**, Gambetti P., Notari S., Concha-Marambio L., Catania M., Kyung-Won P., Maderna E., Suardi S., Haik S., Brandel J.P., Ironside J., Knight R., Tagliavini F., Soto C.: "Prions in the urine of patients with variant Creutzfeldt-Jakob disease". *N Engl J Med*. 2014 Aug 7;371(6):530-9.
- 10- Le N.T., Narkiewicz J., Aulić S., Salzano G., Tran H.T., Scaini D., **Moda F.**, Giachin G., Legname G.: "Synthetic prions and other human neurodegenerative proteinopathies". *Virus Res*. 2014 Oct 31. pii: S0168-1702(14)00437-7.

- 11- Pritzkow S., Morales R., **Moda F.**, Khan U., Telling G.C., Hoover E., Soto C.: "Grass plants bind, retain, uptake, and transport infectious prions". *Cell Rep.* 2015 May 26;11(8):1168-75. doi: 10.1016/j.celrep.2015.04.036. Epub 2015 May 14.
- 12- **Moda F.**, Le T.N., Aulic S., Bistaffa E., Campagnani I., Virgilio T., Indaco A., Palamara L., Andreoletti O., Tagliavini F., Legname G.: "Synthetic prions with novel strain-specified properties". *PloS Pathog.* 2015 Dec 31; 11(12):e1005354.
- 13- Di Fede G., Catania M., Maderna E., Morbin M., **Moda F.**, Colombo L., Rossi A., Cagnotto A., Virgilio T., Palamara L., Ruggerone M., Giaccone G., Campagnani I., Costanza M., Pedotti R., Salvalaglio M., Salmona M., Tagliavini F.: "Tackling amyloidogenesis in Alzheimer's disease with A2V variants of Amyloid- β ". *Sci Rep.* 2016 Feb 11;6:20949. doi: 10.1038/srep20949.
- 14- Verde F., Ticozzi N., Messina S., Calcagno N., Girotti F., Maderna L., **Moda F.**, Scola E., Falini A., Tagliavini F., Silani V.: "MRI abnormalities found 1 year prior to symptom onset in a case of Creutzfeldt-Jakob disease". *J Neurol.* 2016 Mar;263(3):597-9. doi: 10.1007/s00415-016-8022-6. Epub 2016 Feb 12.
- 15- Morales R., Hu P.P., Duran-Aniotz C., **Moda F.**, Diaz-Espinoza R., Chen B., Bravo-Alegria J., Makarava N., Baskakov I.V., Soto C.: "Strain-dependent profile of misfolded prion protein aggregates". *Sci Rep.* 2016 Feb 15;6:20526. doi: 10.1038/srep20526.
- 16- Concha-Marambio L., Pritzkow S., **Moda F.**, Tagliavini F., Ironside J., Schulz P., Soto C.: "Detection of prions in blood from patients with variant Creutzfeldt-Jakob disease". *Sci Transl Med.* 2016 Dec 21;8(370):370ra183. doi: 10.1126/scitranslmed.aaf6188.
- 17- Park K.W., Eum Kim G., Morales R., **Moda F.**, Moreno-Gonzalez I., Concha-Marambio L., Lee A.S., Hetz C., Soto C.: "The Endoplasmic Reticulum chaperone GRP78/Bip modulates prion propagation in vitro and in vivo". *Sci Rep.* 2017 Mar 23;7:44723. doi: 10.1038/srep44723.
- 18- Diaz-Espinoza R., Morales R., Concha-Marambio L., Moreno-Gonzalez I., **Moda F.**, Soto C.: "Treatment with a non-toxic, self-replicating anti-prion delays or prevents prion disease in vivo". *Molec. Psychiatry.* 2017 Jun 20. doi: 10.1038/mp.2017.84.
- 19- Redaelli V., Bistaffa E., Zanusso G., Salzano G., Sacchetto L., Rossi M., De Luca C.M.G., Di Bari M., Partaleone S.M., Agrimi U., Legname G., Roiter I., Forloni G., Tagliavini F., **Moda F.**: "Detection of prion seeding activity in the olfactory mucosa of patients with Fatal Familial Insomnia". *Sci Rep.* 2017 Apr 7;7:46269 doi: 10.1038/srep46269.
- 20- Redaelli V., Tagliavini F., **Moda F.**: "Clinical features, pathophysiology and management of fatal familial insomnia". *Expert Opin Orphan Drugs.* 2017 Apr 5;5:397-404.
- 21- Legname G., **Moda F.**: "The Prion Concept and Synthetic Prions". *Prog Mol Biol Transl Sci.* 2017;150:147-156. doi: 10.1016/bs.pmbts.2017.06.002.
- 22- **Moda F.**: "Protein Misfolding Cyclic Amplification of Infectious Prions". *Prog Mol Biol Transl Sci.* 2017;150:361-374. doi: 10.1016/bs.pmbts.2017.06.016.
- 23- Bistaffa E., Rossi M., De Luca C.M.G., **Moda F.**: "Biosafety of Prions". *Prog Mol Biol Transl Sci.* 2017;150:455-485. doi: 10.1016/bs.pmbts.2017.06.017.

- 24- Franceschini A., Baiardi S., Hughson A., McKenzie N., **Moda F.**, Rossi M., Capellari S., Green A., Giaccone G., Caughey B., Parchi P.: "High diagnostic value of second generation CSF RT-QuIC across the wide spectrum of CJD prions". *Sci Rep* 2017. *Sci Rep.* 2017 Sep 6;7(1):10655. doi: 10.1038/s41598-017-10922-w.
- 25- Aulić S., Masperone L., Narkiewicz J., Isopi E., Bistaffa E., Ambrosetti E., Pastore B., De Cecco E., Scaini D., Zago P., **Moda F.**, Tagliavini F., Legname G.: "α-Synuclein Amyloids Hijack Prion Protein to Gain Cell Entry, Facilitate Cell-to-Cell Spreading and Block Prion Replication". *Sci Rep* 2017. *Sci Rep.* 2017 Aug 30;7(1):10050. doi: 10.1038/s41598-017-10236-x.
- 26- Vanni S., **Moda F.**, Zattoni M., Bistaffa E., De Cecco E., Rossi M., Giaccone G., Tagliavini F., Haïk S., Deslys J.P., Zanusso G., Ironside J.W., Ferrer I., Kovacs G.G., Legname G.: "Differential overexpression of SERPINA3 in human prion diseases". *Sci Rep.* 2017 Nov 15;7(1):15637. doi: 10.1038/s41598-017-15778-8.
- 27- Vanni S., Zattoni M., **Moda F.**, Giaccone G., Tagliavini F., Haïk S., Deslys J.P., Zanusso G., Ironside J.W., Carmona M., Ferrer I., Kovacs GG, Legname G.: "Hemoglobin mRNA Changes in the Frontal Cortex of Patients with Neurodegenerative Diseases". *Front Neurosci.* 2018 Jan 22;12:8. doi: 10.3389/fnins.2018.00008.
- 28- Di Fede G., Catania M., Maderna E., Ghidoni R., Benussi L., Tonoli E., Giaccone G., **Moda F.**, Paterlini A., Campagnani I., Sorrentino S., Colombo L., Kubis A., Bistaffa E., Ghetti B., Tagliavini F.: "Molecular subtypes of Alzheimer's disease". *Sci Rep.* 2018 Feb 19;8(1):3269. doi: 10.1038/s41598-018-21641-1.
- 29- Legname G., Virgilio T., Bistaffa E., De Luca C.M.G., Catania M., Zago P., Isopi E., Campagnani I., Tagliavini F., Giaccone G., **Moda F.**: "Effects of peptidyl-prolyl isomerase 1 depletion in animal models of prion diseases". *Prion.* 2018 Apr 20;1-30. doi: 10.1080/19336896.2018.1464367.
- 30- Bistaffa E., **Moda F.**, Virgilio T., Campagnani I., De Luca C.M.G., Rossi M., Salzano G., Giaccone G., Tagliavini F., Legname G.: "Synthetic Prion Selection and Adaptation". *Mol Neurobiol.* 2018 Aug 3. doi: 10.1007/s12035-018-1279-2.
- 31- Gandini A., Bartolini M., Tedesco D., Martinez-Gonzalez L., Roca C., Campillo N.E., Zaldivar-Diez J., Perez C., Zuccheri G., Miti A., Feoli A., Castellano S., Petralla S., Monti B., Rossi M., **Moda F.**, Legname G., Martinez A., Bolognesi M.L. Tau-Centric Multitarget Approach for Alzheimer's Disease: Development of First-in-Class Dual Glycogen Synthase Kinase 3β and Tau-Aggregation Inhibitors. *J Med Chem.* 2018 Sep 13;61(17):7640-7656. doi: 10.1021/acs.jmedchem.8b00610.
- 32- Saraceno L., Ricigliano V.A.G., Cavalli M., Cagol A., Bosco G., **Moda F.**, Caroppo P., Meola G.: "Sporadic MM-1 Type Creutzfeldt-Jakob Disease With Hemiballic Presentation and No Cognitive Impairment Until Death: How New NCJDRSU Diagnostic Criteria May Allow Early Diagnosis". *Front Neurol.* 2018 Sep 5;9:739. doi: 10.3389/fneur.2018.00739. eCollection 2018.
- 33- Di Fede G., Catania M., Atzori C., **Moda F.**, Pasquali C., Indaco A., Grisoli M., Zuffi M., Guaita M.C., Testi R., Taraglio S., Sessa M., Gusmaroli G., Spinelli M., Salzano G., Legname G., Tarletti R., Godi L., Pocchiari M., Tagliavini F., Imperiale D., Giaccone G.: "Clinical and neuropathological phenotype associated with the novel V189I mutation in the prion protein gene". *Acta Neuropathol Commun.* 2019 Jan 3;7(1):1. doi: 10.1186/s40478-018-0656-4.

- 34- Visconti L., Malagrinò F., Brogginì L., De Luca C.M.G., **Moda F.**, Gianni S., Ricagno S., Toto A.: "Investigating the Molecular Basis of the Aggregation Propensity of the Pathological D76N Mutant of Beta-2 Microglobulin: Role of the Denatured State". *Int J Mol Sci.* 2019 Jan 18;20(2). pii: E396. doi: 10.3390/ijms20020396.
- 35- Meneghetti E., Gasperini L., Virgilio T., **Moda F.**, Tagliavini F., Benetti F., Legname G.: "Prions Strongly Reduce NMDA Receptor S-Nitrosylation Levels at Pre-symptomatic and Terminal Stages of Prion Diseases". *Mol Neurobiol.* 2019 Feb 1. doi: 10.1007/s12035-019-1505-6.
- 36- Cali I., Lavrich J., **Moda F.**, Kofskey D., Nemani S.K., Appleby B., Tagliavini F., Soto C., Gambetti P., Notari S.: "PMCA-replicated PrPD in urine of vCJD patients maintains infectivity and strain characteristics of brain PrPD: Transmission study". *Sci Rep.* 2019 Mar 26;9(1):5191. doi: 10.1038/s41598-019-41694-0.
- 37- Bistaffa E., Rossi M., De Luca C.M.G., Cazzaniga F., Carletta O., Campagnani I., Tagliavini F., Legname G., Giaccone G., **Moda F.**: "Prion Efficiently Replicates in α -Synuclein Knockout Mice". *Mol Neurobiol.* 2019 Apr 30. doi: 10.1007/s12035-019-1602-6.
- 38- **Moda F.**, Bolognesi M.L., Legname G.: "Novel screening approaches for human prion diseases drug discovery". *Expert Opin Drug Discov.* 2019 Jul 4;1-11. doi: 10.1080/17460441.2019.1637851.
- 39- De Luca C.M.G., Elia A.E., Portaleone S.M., Cazzaniga F.A., Rossi M., Bistaffa E., De Cecco E., Narkiewicz J., Salzano G., Carletta O., Romito L., Devigili G., Soliveri P., Tiraboschi P., Legname G., Tagliavini F., Eleopra R., Giaccone G., **Moda F.**: "Efficient RT-QuIC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and multiple system atrophy". *Transl Neurodegener.* 2019 Aug 8;8:24. doi: 10.1186/s40035-019-0164-x.
- 40- Achour A., Brogginì L., Han X., Sun R., Santambrogio C., Buratto J., Visentin C., Barbiroli A., De Luca C.M.G., Sormanni P., **Moda F.**, De Simone A., Sandalova T., Grandori R., Camilloni C., Ricagno S.: "Biochemical and biophysical comparison of human and mouse beta-2 microglobulin reveals the molecular determinants of low amyloid propensity". *FEBS J.* 2019 Aug 17. doi: 10.1111/febs.15046.
- 41- Bistaffa E., Vuong T.T., Cazzaniga F.A., Tran L., Salzano G., Legname G., Giaccone G., Benestad S.L., **Moda F.**: "Use of different RT-QuIC substrates for detecting CWD prions in the brain of Norwegian cervids". *Sci Rep.* 2019 Dec 9;9(1):18595. doi: 10.1038/s41598-019-55078-x.
- 42- Llorens F., Villar-Piqué A., Hermann P., Schmitz M., Calero O., Stehmann C., Sarros S., **Moda F.**, Ferrer I., Poleggi A., Pocchiari M., Catania M., Klotz S., O'Regan C., Brett F., Heffernan J., Ladogana A., Collins S.J., Calero M., Kovacs G.G., Zerr I.: "Diagnostic Accuracy of Prion Disease Biomarkers in Iatrogenic Creutzfeldt-Jakob Disease". *Biomolecules.* 2020 Feb 12;10(2). pii: E290. doi: 10.3390/biom10020290.
- 43- Maiolo D., Pizzi A., Gori A., Gazzera L., Demitri N., Genoni A., Baggi F., **Moda F.**, Terraneo G., Baldelli Bombelli F., Metrangolo P., Resnati G.: "Halogenation of the N-Terminus Tyrosine 10 Promotes Supramolecular Stabilization of the Amyloid- β Sequence 7-12". *ChemistryOpen.* 2020 Feb 25;9(2):253-260. doi: 10.1002/open.201900350. eCollection 2020 Feb.
- 44- Maiolo D., Pizzi A., Gori A., Bergamaschi G., Pigliacelli C., Gazzera L., Consonni A., Baggi F., **Moda F.**, Baldelli Bombelli F., Metrangolo P., Resnati G.: Enhanced self-assembly of the 7-12 sequence of amyloid- β peptide by tyrosine bromination". *Supramolecular Chemistry, In press.*

- 45- Giaccone G., **Moda F.**: "PMCA applications for prion detection in peripheral tissues of patients with variant Creutzfeldt-Jakob disease". *Biomolecules. In press.* *Biomolecules.* 2020 Mar 5;10(3). pii: E405. doi: 10.3390/biom10030405.
- 46- Cazzaniga F., Elia A.E., **Moda F.**: "Recenti sviluppi nella diagnosi differenziale tra morbo di Parkinson e parkinsonismi atipici. *Biochimica Clinica. In press.*

Book Chapters

1. **Moda F.**, Pritzkow S., Soto C.: "Protein Misfolding Cyclic Amplification". In: *Prion and Diseases*. Editors: Wen-Quan Zou and Pierluigi Gambetti. Assistant editor: Portia Formento, Biomedicine; Springer Science & Business Media 233 Spring Street | New York, NY 10013-1578 | United States. ISBN 978-1-4614-5304-8
2. Bistaffa E., Rossi M., De Luca C.M.G., **Moda F.**: "Biosafety of prions". In: *Progress in Molecular Biology and Translational Science*. Editors: Giuseppe Legname and Silvia Vanni. Assistant editor: Helene Kabes; Elsevier. *Prog Mol Biol Transl Sci.* 2017;150:455-485. doi: 10.1016/bs.pmbts.2017.06.017. Epub 2017 Aug 2.
3. **Moda F.**: "Protein Misfolding Cyclic Amplification". In: *Progress in Molecular Biology and Translational Science*. Editors: Giuseppe Legname and Silvia Vanni. Assistant editor: Helene Kabes; Elsevier.
4. Legname G., **Moda F.**: "The Prion Concept and Synthetic Prions". In: *Progress in Molecular Biology and Translational Science*. Editors: Giuseppe Legname and Silvia Vanni. Assistant editor: Helene Kabes; Elsevier.
5. **Moda F.**, Bistaffa E., Narkiewicz J., Salzano G., Legname G.: "Synthetic Mammalian Prions" In: *Prion diseases*. Part of the neuromethods book series. 2017;129, 209-228. doi.org/10.1007/978-1-4939-7211-1_13. Print ISBN 978-1-4939-7209-8. Humana Press, New York, NY. Springer protocols.
6. Cazzaniga F.A., De Luca C.M.G., Bistaffa E., Giaccone G., **Moda F.**: "Cell-free amplification of prions: where do we stand?" In: *Progress in Molecular Biology and Translational Science. Under review.*

Invited speaker

1. **International Congress:** *Prion detection in urine of patients with variant Creutzfeldt-Jakob disease: an update.* May 27-30th, 2014. Prion 2014. Trieste (Italy).
2. **Course:** *La gestione del rischio da prioni per gli operatori sanitari. Procedure di sterilizzazione dell'ambiente e dei presidi medici e chirurgici.* November 24th, 2015. Fondazione IRCCS Istituto Neurologico Carlo Besta. Milan (Italy).
3. **Seminar:** *Amplificazione del misfolding proteico in vitro: applicazioni diagnostiche e identificazione di farmaci.* May 26-28th, 2016. 52° Congresso Associazione Italiana Neuropatologia e Neurobiologia Clinica & 42° Congresso Associazione Italiana Ricerca Invecchiamento Cerebrale. Rome (Italy).

4. **Seminar:** *Misfolded aggregates and human neurodegenerative proteinopathies*. May 6th, 2016. Department of Pharmacy and biotechnology (FABIT). Alma mater studiorum, University of Bologna. Bologna (Italy).
5. **Seminar:** *Protein misfolding and neurodegenerative disease*. March 31st, 2017. ERC's 10th anniversary. Amyloids: from pathological agents to useful nanomaterials. Politecnico di Milano. Milan (Italy).
6. **Seminar:** *Detection of disease-specific biomarkers in the olfactory mucosa of patients with neurodegenerative disorders: diagnostic and therapeutic applications*. May 8th, 2017. IRCCS Foundation Carlo Besta Neurological Institute. Milan (Italy).
7. **Workshop:** *In vitro amplification of protein misfolding: diagnostic and therapeutic applications*. May 12-13rd, 2017. Miniworkshop e Convegno CIMN "Misfolding proteico e amiloidosi XII". Genova (Italy).
8. **Seminar:** *Tecniche innovative per la rilevazione di alfa-sinucleina patologica*. May 18-20th, 2017. 53° Congresso Associazione Italiana Neuropatologia e Neurobiologia Clinica & 43° Congresso Associazione Italiana Ricerca Invecchiamento Cerebrale. Padova (Italy).
9. **Workshop:** *La ricerca farmacologica oggi tra limiti e innovazione*. May 27th, 2017. Fondazione IRCCS Istituto Neurologico Carlo Besta. Milan (Italy).
10. **Seminar:** *Amplification of misfolded proteins from biological fluids and peripheral tissues of patients with degenerative dementias*. September 11st, 2017. BIOGEN Headquarter, Cambridge, Massachusetts (USA).
11. **Summer school:** *Prion and prion-like neurodegenerative disorders*. September 25-29th, 2017. Desenzano del Garda (Italy).
12. **Workshop:** *Neurodegenerazione da prioni e la diagnostica del futuro*. October 7-14th, 2017. Bergamo Scienza, Bergamo (Italy).
13. **Workshop:** *Tecniche di amplificazione, misfolding proteico, proteina tau e alfa-sinucleina*. 43° Congresso Associazione Italiana Neuropatologia e Neurobiologia Clinica & 44° Congresso Associazione Italiana Ricerca Invecchiamento Cerebrale. May 17-19th, 2018. Milan (Italy).
14. **National Congress:** *Sviluppo di biomarcatori molecolari periferici con tecniche avanzate*. Plenary session - XLIX Congresso Società Italiana di Neurologia. October 27-30th, 2018. Roma (Italy).
15. **Workshop:** *Out of the box research on neurodegeneration*. December 3rd, 2018. Scuola Normale Superiore, Pisa (Italy).
16. **Seminar:** *Amplification of misfolded proteins from biological fluids and peripheral tissues of patients with degenerative dementias*. December 14th, 2018. University of Milan (Italy).
17. **National congress:** *Biomarcatori molecolari periferici con tecniche avanzate*. Nuove frontiere per i pazienti a rischio e nelle fasi precoci della malattia di Alzheimer. February 15th, 2019 Naples (Italy).
18. **International congress:** *Efficient RT-QuIC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and Multiple System Atrophy*. Prion2019, May 21st-24th, 2019 Edmonton (Canada).

19. **Workshop:** I giovani e la ricerca per la malattia di Alzheimer: vecchie sfide, nuove idee. IRCCS Centro San Giovanni di Dio Fatebenefratelli. September 20th, 2019. Brescia (Italy).
20. **Summer school:** *Aggregation mechanisms of neurodegeneration-related IDPs*. Intrinsically disordered proteins (IDPs): from physical chemistry to pathogenic mechanisms. September 23rd-26th, 2019 Como (Italy).
21. **National Congress:** *Detection and characterization of abnormal alpha-synuclein in the olfactory mucosa of patients with PD and atypical parkinsonisms*. Italian Society of Neuroscience SINS. September 27th-29th, 2019. Perugia (Italy).
22. **International workshop:** *Dr. Jekyll and Mr Hyde side of proteins: insight into neurodegenerative diseases*. Norwegian Veterinary Institute. 15th October 2019. Oslo (Norway).
23. **Workshop:** *Biomarcatori delle alfa-sinucleinopatie*. Parkinson frontiers, focus on molecular mechanisms, physiopathology and therapeutic approaches. October 10th-12nd, 2019. Trento (Italy).
24. **National Congress:** *Tecniche di amplificazione in vitro del misfolding proteico: dai prioni ad alfa-sinucleina, tau e beta-amiloide*. Grandangolo 2019, un anno di neurologia IV Edizione. November 29th-30th, 2019. Genova (Italy).
25. **National Congress:** *Efficient RT-QuIC seeding activity for α -synuclein in olfactory mucosa samples of patients with Parkinson's disease and Multiple System Atrophy*. 51° Congresso Nazionale della Società Italiana di Biochimica Clinica e Biologia Molecolare Clinica. November 22nd, 2019. Padova (Italy).
26. **Workshop:** *L'analisi del liquor nella diagnostica delle malattie neurologiche*. Fondazione IRCCS Istituto Neurologico Carlo Besta. December 3rd, 2019. Milan (Italy).

Supervision of graduate students and postdoctoral fellows

November 2014- May 2016:	1 Resident in Neurology. Dept. of Neurosciences, Rehabilitation, Ophthalmology, Genetics, Maternal and Child Health, University of Genova, IRCCS AOU San Martino-IST, Genova, Italy
September 2014 – Sept. 2018:	2 PhD Students. PhD program in Functional and Structural Genomics, Scuola Internazionale Superiore di Studi Avanzati (SISSA). Department of Neuroscience, Laboratory of prion biology, Trieste, Italy.
March 2016 – November 2017	Thesis Advisor of a Master Student in neurobiology, University of Pavia, Pavia, Italy
March 2018- November 2019:	Thesis Advisor of a Master Student in neurobiology, University of Pavia, Pavia, Italy.
March 2020- present:	Thesis Advisor of a Master Student in neurobiology, University of Pavia, Pavia, Italy
November 2018 – present:	Supervisor of a PhD Student in molecular biology (Joint PhD program in molecular biology – JUMBO), Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy

Awarded grants

1. **FABS201402 - La Foundation pour la recherche medicale (FRM) on behalf on the Foundation Alliance BioSecure (FABSFRM)**
Prion detection in blood samples of patients suffering from variant Creutzfeldt-Jakob disease.

Duration: 2015-2017

Role: Principal Investigator (PI)

2. **BAND 11035 – Biomarkers Across Neurodegenerative Diseases Grant Program 2015 – Alzheimer’s Association (ALZ), Alzheimer’s Research UK (ARUK), The Michael J. Fox Foundation for Parkinson’s Research (MJFF) and Weston Brain Institute.**

Seed of dementia: misfolded proteins in neurodegenerative disorders.

Duration: 2016-2018

Role: PI

3. **Fondazione CARIPLO**

Understanding the role of β -amyloid peptide halogenation in Alzheimer’s disease

Duration: 2015-2017

Role: Collaborator of Carlo Besta Unit

4. **Italian Ministry of Health. Ricerca Corrente**

Sviluppo e validazione di biomarcatori specifici per la diagnosi precoce delle malattie neurodegenerative, in particolare le malattie da prioni e la malattia di Alzheimer.

Duration: 2017-2018

Role: PI

5. **Italian Ministry of Health. Ricerca Finalizzata: GR-2013-02355724**

Ultrasensitive diagnostic test for degenerative dementias based on amplification of peripheral disease-specific biomarkers from the olfactory mucosa.

Duration: 2016-2019

Role: PI

6. **The Association for Frontotemporal Degeneration (AFTD)**

Detection of misfolded TDP-43 protein in CSF and plasma of GRN and C9orf72 mutation carriers.

Duration: 2017-2018

Role: Co-PI

7. **Made in Trieste Project**

Development and optimization of innovative techniques (PMCA and RT-QuIC) for an early and definitive diagnosis of neurodegenerative disorders.

Duration: 2018

Role: Co-PI

8. **European Innovative Research & Technological Development Projects in Nanomedicine - EuroNanoMed III**

Surface-enhanced Raman scattering with nanophotonic and biomedical amplifying system for an early diagnosis of Alzheimer’s disease pathology (SPEEDY).

Duration: 2019-2021

Role: Carlo Besta unit coordinator

9. **Italian Ministry of Health. Ricerca Corrente**

Sviluppo e validazione di biomarcatori specifici per la diagnosi precoce delle malattie neurodegenerative, in particolare le malattie da prioni e la malattia di Alzheimer.

Duration: 2019-2020

Role: PI

10. **Italian Ministry of health. Ricerca Finalizzata: RF-2018-12366209**
Dementia with Lewy Bodies: toward a standardization of the diagnostic tools among the Italian Dementia Centers.
Duration: 2019-2021
Role: Collaborator (young researcher) of Carlo Besta Unit
11. **Norwegian research funding for agriculture and food industry**
Reindeer CWD prion ecology: Risk of dissemination by sheep
Duration 2019-2021
Role: Carlo Besta unit coordinator
12. **Italian Ministry of health. Ricerca Corrente 2019 – programma di rete**
Approcci innovativi per l'identificazione e la validazione di biomarcatori nell'ambito delle malattie neurodegenerative
Rete IRCCS delle Neuroscienze e della Neuroriabilitazione – RIN –
Duration 2019-2020
Role: Carlo Besta unit coordinator
13. **Bando Ricerca Salute 2018 – Regione Toscana**
Proteomics, RAdiomics & Machine learning-integrated strategy for precision medicine for Alzheimer's (PRAMA)
Duration: 2019-2021
Role: Carlo Besta unit coordinator

Organization of congresses/workshops

Organizer and member of the scientific committee of the international congress "Towards the future of brain research: Besta young researchers' international congress". September 27-28th, 2018. Museo della Scienza e della Tecnologia "Leonardo da Vinci". Milan (Italy).

International recognition and responsibilities

2015 – present

Peer reviewer for the Alliance Biosecure Foundation under the aegis of the Fondation pour la Recherche Médicale.

2017 – present

Peer reviewer for the Department of Health (UK) of prion disease related projects.

2019 – present

Member of the research steering group for the project "Evaluation of Candidate Tests for Pre-Clinical Detection of Prion Disease in Blood". Policy Research Programme - Central Commissioning Facility. Department of Health (UK).

Teaching activities

- **September 2017 – present:** Faculty member of the PhD course in Molecular Biology at Scuola Internazionale Superiore di Studi Avanzati (<http://phdjumbo.sissa.it/faculty>)

- **June 4th, 2019:** “Tecniche di biologia molecolare innovative per la diagnosi delle malattie neurodegenerative”. Università degli Studi di Milano. Corso di Biologia Molecolare Clinica della Laurea Magistrale in Biologia Applicata alla Ricerca Biomedica.
- **December 12nd, 2019:** “Tecniche di biologia molecolare innovative per la diagnosi delle malattie neurodegenerative”. Università degli Studi di Milano. Corso di Biologia Molecolare Clinica della Laurea Magistrale in Biologia Applicata alla Ricerca Biomedica.

Member of scientific societies

May 2018 – present: Member of “Associazione Italiana di Neuropatologia e Neurobiologia Clinica (AINPeNC)”

April 2019 – present: Member of “Società Italiana di Biochimica Clinica e Biologia Molecolare Clinica (SIBioC)”

Scientific network

1. Scuola Internazionale Superiore di Studi Avanzati (SISSA), Italy

Prof. Giuseppe Legname

2. International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy

Dr. Lorena Zentilin

3. Università degli Studi di Milano, Italy

Prof. Graziella Cappelletti

Prof. Stefano Ricagno

4. Università degli Studi di Milano-Bicocca, Italy

Prof. Rita Grandori

Prof. Francesco Mantegazza

5. IRCCS – Istituto di ricerche farmacologiche Mario Negri, Italy

Prof. Gianluigi Forloni

6. Italian National Research Council (CNR), Italy

Dr. Paolo Matteini

7. University of Texas Health Science Center at Houston, United States of America

Prof. Claudio Soto

8. Norwegian Veterinary Institute, Norway

Prof. Sylvie Benestad

9. CEA - Commissariat à l'Energie Atomique, France

Prof. Jean Philippe Deslys

Prof. Emmanuel Comoy

10. Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Spain

Dr. Juan Maria Torres

11. Università degli Studi di Perugia, Italy

Prof.ssa Lucilla Parnetti

12. Fondazione Istituto Neurologico Casimiro Mondino

Prof.ssa Cristina Cereda

13. Case Western Reserve University, Cleveland, United States of America

Prof. Shu Chen

Data

11 Aprile 2020

Luogo

Milano