

PIER LUIGI SAN BIAGIO CURRICULUM VITAE

Date: Ottobre 2020

EDUCATION:

1975 Degree in Physics (Biophysics) *cum laude* – University of Palermo, Physics Dept.

POSTDOCTORAL TRAINING:

1977 – 1982 – Research Fellowships from the University of Palermo (53 months) and the National Research Council (5 months)

ACADEMIC AND PROFESSIONAL CAREER:

January 2019 – Retired. Resigned on December 31 2018 for reasons of age

2010 – December 2018 Research Director at the National Research Council – Institute of Biophysics at Palermo

1998 – 2009 Senior Researcher at the National Research Council – Institute of Biophysics at Palermo (former Institute for Interdisciplinary Applications of Physics (IAIF))

1998 – 2002 Member of the team aimed at creating the new Institute of Biophysics originating from the merging of five research structures of CNR.

1999 – 2002 Director of the Institute for Interdisciplinary Applications of Physics – National Research Council.

1982 – 1998 Researcher at the Physics Dept. of University of Palermo.

MAJOR SCIENTIFIC/ADMINISTRATIVE RESPONSIBILITIES:

2017 – 2019 Scientific Responsible of the Regione Siciliana Project “*Percorsi formativi nei settori Biotecnologia, Biomedicina, e Agroalimentare*” in the frame of the Public call 11/2017 ‘Rafforzare l’occupabilità nel Sistema della R&S e la nascita di spin off di ricerca. P.O. FSE 2014/2020 (€ 547.620)

2016 – Member of the working Group for the definition of the Prioritised Action Framework for the Sicilian Region. (Prot. 44818 del 25/06/2016).

2015 – Member of Group of Experts of Evaluation Area 02 (GEV02) for Evaluation of the Quality of Research 2011–2014 (VQR 2011–2014).

2015 – 2018 Delegate of the President of National Research Council for the relations between CNR and Palermo University.

2014 – 2016 Responsible of the Regione Siciliana Project “ Il controllo di qualità degli alimenti e la caratterizzazione di nanosistemi nelle biotecnologie’ in the frame of the Public call 1/2012 ‘Rafforzare l’occupabilità nel Sistema della R&S e la nascita di spin off di ricerca. PO FESR 2007/2013 (€ 351.652)

2013 – 2015 Administrative Responsible and Scientific Participant of the CNR IBF–Unit for the Project “FIRB FUTURO IN RICERCA – MIND: Indagine multidisciplinare per lo sviluppo di farmaci neuro–protettori” within the frame of the FIRB 2012 of MiUR. (€ 317.179)

2012 – 2015 Scientific Responsible of the CNR IBF–Unit for the Project “HIPPOCRATES – Sviluppo di Micro e Nano Tecnologia e Sistemi avanzati per la salute dell’uomo” within the frame of the “Avviso 713/Ric del MiUR – PON R&S 2007–2013 Regioni Obiettivo 1 “Distretti Tecnologici e relative reti” Distretto Nano e Microsistemi – Regione Sicilia. (€ 109.982)

2012 – 2015 Scientific Responsible of the CNR IBF–Unit for the Project “CAFIS – Controllo della qualità e della salubrità nella filiera del caffè con tecniche chimico–fisiche innovative tipiche della scienza dei materiali” within the frame of the PO FESR 2007–2014 Linea di intervento 4.1.1 – Decreto 18 giugno 2012 Assessorato Attività Produttive Regione Sicilia. (€ **642.512**)

2012 – 2015 Scientific Responsible of the CNR IBF–Unit for the Project “SALUTE–Piattaforma Regionale di Ricerca traslazionale per la salute” within the frame of the PO FESR 2007–2014 Linea di intervento 4.1.2.A asse IV – Decreto 8 luglio 2011 Assessorato Attività Produttive Regione Sicilia. (€ **530.000**)

2012 – 2015 Scientific Responsible of different CNR and University Institutions and private Companies for the Operative Unit of the Project “DI.ME.SA. – *Valorizzazione di prodotti tipici della dieta mediterranea e loro impiego a fini salutistiche nutraceutici*” within the frame of the “Avviso 713/Ric del MiUR – PON R&S 2007–2013 Regioni Obiettivo 1 Distretti Tecnologici e relative reti Distretto Agro BioPesca ecocompatibile” – Regione Sicilia. (€ **410.993**)

2012 – 2015 Scientific Responsible of the CNR IBF–Unit for the Project “Shelf–Life – Utilizzo integrato di approcci tecnologici innovativi per migliorare la shelf–life e preservare le proprietà nutrizionali di prodotti agroalimentari” in the frame of the “Avviso 713/Ric del MiUR – PON R&S 2007–2013 Regioni Obiettivo 1 Distretti Tecnologici e relative reti Distretto Agro BioPesca ecocompatibile” – Regione Sicilia. (€ **135.000**)

2012 – 2015 Scientific Responsible of the CNR IBF–Unit for the Project “DE.CRO.MED – Pescato mediterraneo: certificazione di qualità e valorizzazione dei crostacei decongelati” within the frame of the PO FESR 2007–2014 Linea di intervento 4.1.1. – Decreto 18 giugno 2012 Assessorato Attività Produttive Regione Sicilia. (€ **166.749**)

2012 – 2015 Administrative Responsible and Scientific Participant of the Research Agreement between IBF–CNR and Merck Serono. (€ **99.883**)

2011 – 2018 Referee for the MiUR–PRIN projects.

2011 – 2018 Scientific responsible of the bilateral agreement between the Biophysics Institute of National Research Council and the *AMC–CNR Institute*

2011 – 2013 Scientific Responsible of CNR–IBF Unit for the FIRB–MIUR Project “MERIT: Basi molecolari nelle sindromi degenerative correlate con l’invecchiamento”. (€ **111.514**)

2010 – 2012 Member of the Committee for the PhD in “Frutticoltura Mediterranea” of the Palermo University. (Prot. 11/10 – 21/12/2010)

2010 – 2012 Scientific Responsible for the CNR–Unit of Italian Project PRIN “Inhibition of beta–amyloid peptide aggregation by some natural compounds” (Prot. 04/2010, 3/2/2010). (€ **30.970**)

2010 – 2018 Delegate for the IBF to the “Center of excellence on neurodegenerative diseases”. (Prot. 1242 – 6/4/2010)

2010 Scientific responsible for the international agreement between Palermo Institute of Biophysics of CNR and the “Small Infinity” Company. (Prot. 2355 – 24/9/2010)

2010 Member of the Scientific Committee of the XX National Congress of Italian Biophysical Society (SIBPA) Arcidosso – Italy

2009 – 2016 Member of the Committee for the relations between National Research Council and the University of Palermo. (Prot. 64869 – 18/9/2009)

2010 – 2015 Director’s Delegate for scientific and administrative management of the Palermo Unit of IBF. (Prot. 1951 – 30/9/2009)

2010 – 2018 Member of the International Committee of ESF. (Prot. 1640 – 21/05/2010) **2009**

Scientific responsible of the bilateral agreement between the Biophysics Institute of National Research Council and the *Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione (ISMETT)* Palermo

2009 Member of the organizing Committee of the Satellite Meeting of XXXIX National Congress on Magnetic Resonance “Bitter & Sweet Science”, Palermo Italy

2009 Chairman of the section “Protein folding and aggregation” at the XIII European Conference on the Spectroscopy of Biological Molecules 28/8 –2/9/09 Palermo

2009 President of the Scientific Committee of the 7th European Biophysics (EBSA) Congress

2009 Chairman of the section “Biomaterials and drug delivery” at the 7th European Biophysics Congress

2008 – 2011 Member of the CNR Committee for the organization in Roma of the meeting of International Council for Science (ICSU).

2008 Head of the Scientific Committee of the XIX National Congress of Italian Biophysical Society (SIBPA) Roma – Italy.

2008 Proposed by an International Committee as one of three Candidates for the position of Director of the Institute of Biophysics of the Italian National Research Council. (Verbale n.ro 2 della commissione di valutazione – 18/12/2007)

2008 – 2018 Member of the Expert Committee of the University of Verona for research program evaluation.

2008 Scientific Responsible of the MiUR/CNR project “Intesa di programma per l’incremento di attrezzature scientifiche”. (€ 100.000)

2007 – 2010 Delegate on behalf of the Italian National Research Council (CNR) at the International Union of Pure and Applied Biophysics (IUPAB) (Prot. 84519, 16/11/2007).

2007 – 2018 Member of the “*Comitato Ordinatore*” of the 2nd level Master in Bioinformatics University of Palermo, Italy, within the Regional Program *P.O.R. Sicilia 2000/2006*.

2007 – 2018 Member of the “*Centro Interdipartimentale di Biotecnologie Applicate*” University of Palermo, Italy

2007 Head of the Scientific Committee of the 7th International European Biophysics Congress (EBSA), Genova – Italy 2009

2007 – 2009 Member of the Technical Scientific Committee, Project 1999/IT–1PO–011/3–13/7.2.4/331 “*Borse di studio finalizzate allo svolgimento di parti sperimentali di tesi di laurea presso imprese*” University of Palermo, Italy.

2007 – 2008 Local Coordinator of the PON 2000/2006 Project “PARSEC: Formazione di alte professionalità per adeguamento competenze della P.A. in materia di ricerca e sviluppo e relative valorizzazione”. (€ 108.177)

2006 – 2018 Member of the Expert Committee of the *Regione Piemonte* for research program evaluation.

2006 Head of the Scientific Committee of the XVIII National Congress of Italian Biophysical Society (SIBPA) Palermo – Italy.

2006 – 2008 Administrative Coordinator of the Research Program “*Realizzazione di un centro regionale per il controllo di qualità di oli vergini d’oliva*” within the Regional Program “*Programmazione del P.O.R. Sicilia 2000/2006 Misura 3.15 – Sottosazione C “Potenziamento delle infrastrutture e laboratori esistenti per la realizzazione di centri per il testing di nuove tecnologie che abbiano a riferimento particolari bacini di utenza appositamente identificati”*”. (€ 2.464.000)

2006 – 2018 Scientific expert of the Italian *Ministero delle Attività Produttive, Direzione Generale per il coordinamento degli Incentivi alle Imprese*, for the evaluation of the

development projects (legge n. 46/82).

2005 Member of the *Peer Review Commission* for evaluation of Physics projects (ESA AO–2004 Materials Sciences and Crystal Growth) of the *European Space Agency*

2005 – 2016 Responsible for the project “*Processi di aggregazione biomolecolare*” (former “*Struttura, Dinamica e Funzione della Biomolecole*”) within the Biophysics Project of the new CNR Dept. “Materiali e Dispositivi”

2004 – 2008 President of the Italian Biophysical Society (SIBPA).

2004 – 2007 Administrative responsible for the Project *P.O.N. 2000–2006 “Ricerca Scientifica – Sviluppo Tecnologico, Alta Formazione – Misura II.2 Società dell’Informazione per il Sistema Scientifico Meridionale – Azione A – Infrastrutture di rete locale, Avviso n. 901/2000”* Decreto Direttoriale 29 marzo 2004 of the Italian Ministero della Università e della Ricerca.

2004 – 2018 Member of the Expert Committee of the Emilia–Romagna for the evaluation of research projects “*Promozione del sistema regionale delle attività di ricerca industriale, innovazione e trasferimento tecnologico*” (Regional law 7/2002)

2004 – 2007 Scientific responsible of the project “*Neuropatie animali: analisi molecolari e funzionali della proteina prionica in razze bovine siciliane*” of the National project IZS SI 005/02 of the Italian Health Dept. (€ 39.500)

2004 – 2009 Member of the Committee for the relations between National Research Council and University of Palermo.

2003 – 2004 Scientific Director of the project “*Struttura, Dinamica e Funzione della Biomolecole*” of the CNR – Institute of Biophysics.

2003 – 2006 Member of the UK Engineering and Physical Science Research Councils Peer Review College.

2003 – 2006 Expert evaluator (Maria Curie Fellowships) for the Sixth Framework Programme

2002 – 2015 President of the Director’s Committee of the Palermo – Area della Ricerca of CNR.

2002 – 2009 Director’s Delegate for the scientific and administrative management of the Palermo Unit of Institute of Biophysics.

2002 – 2012 Member of the “*Consiglio di Presidenza*” of the Italian Biophysical Society (SIBPA).

2002 – PRESENT Expert of the Italian Ministero dell’Università e della Ricerca (Decreton. 1176 del 2 agosto 2002, art. 7, comma 1 decreto legislative 27 luglio 1999, n. 297).

2002 – Proposed as a candidate for the position of Director of the Institute of Biophysics of the Italian National Research Council by an International Committee (D.Leg n.ro 19 del 30/01/1999 – Verbale della commissione. Di valutazione del 14/02/2002).

2002 – 2003 Expert evaluator (Maria Curie Fellowships) for the Fifth Framework Programme

2001 – 2003 Scientific responsible of the Research Unit of the Project “*Deposito della beta amiloide sulla membrana cellulare: ruolo degli ioni metallici e dei radicali liberi*” in the frame of the “*Progetto strategico di ricerca finalizzata sulla malattia di Alzheimer*” – Italian Health Department.

1999 – 2001 Scientific Head of the International Agreement for the Direct Cooperation between Union College, NY, USA and University of Palermo, Physics Dept. Project title: “*Gelation mechanisms in charged biopolymeric systems*”

1999 – 2003 Head of the Project “*Role of solute–solvent interactions in the gelation of biomolecules*” inside the COST P1–WG1 “*Soft Condensed Matter*” European Program.

1996 – Member of the team of referees of the College of Arts and Sciences of Tennessee State

University, Nashville, USA

1995 – 1998 Principal Research Investigator of the Project “*Diffrattografo ottico ed analizzatore di funzione di struttura ad alta risoluzione spazio-temporale*” EC/INFM SUD. The project allowed the Patents # GE99 A 000040

1992 – Member of the Scientific Committee of the *International EBSA Workshop on Water–Biomolecule Interactions*

1988 – Member of International Biophysics Delegation to the People’s Republic of China, under the leadership of Professor A.C.T. North.

1987 – Scientific responsible of the bilateral project between CNR–IAIF and the Chemical Physics Lab of NIDDK–NIH, Bethesda, USA

AWARDS

1996 – 1997 “Collective properties of hydration: Long range and specificity of hydrophobic interactions” Highlights INFM.

2010 – 2011 “Alzheimer e diabete di tipo 2: Meccanismi molecolari comuni” CNR Highlights.

INVENTIONS/PATENTS:

1999 – Coauthor of the INFM patent “*Diffrattometro ottico ed analizzatore di funzione di struttura, ad alta risoluzione spazio temporale*”. Patent # GE99 A 000040

EXTERNAL REVIEWER ACTIVITY:

Member of the Advisory Editorial Board of *European Biophysics Journal* (13/11/2005)

Member of Editorial Board of *The Open Biology Journal*

Co-Editor of the book *Biophysical Inquiry into Protein Aggregation and Amyloid Diseases*.

Co-Editor of the book *Multidisciplinary viewpoint on neurodegenerative diseases*. (Prot. 07/10 – 14/4/2010)

Referee of the following peer review journals:

- Int’l J. Biomedical Science
- Biophysical Journal
- J. Biological Macromolecules
- J. Molecular Biology
- B.B.Acta: Proteins and Proteomics
- Brain Research Bulletin
- BMC Structural Biology
- Langmuir
- Plos One
- Preparative Biochemistry & Biotechnology

RESEARCH ACTIVITY

Pier Luigi San Biagio has coordinated the research activity in the field of Biophysics at the CNR Institute for Interdisciplinary Applications of Physics (IAIF) since its creation in 1980. After more than one year spent working at NIH (Bethesda, MD, USA), he returned in Italy and set up a lab with outstanding equipment for the characterization of biomolecular aggregation. He was Director of the IAIF from 1998 to 2002 when the Institute became part of the Biophysics Institute as Palermo U.O.S.. From 1998 to 2002 he helped to establish the

scientific and administrative actions for the creation of the new Institute of Biophysics resulting from the merging of five research structures of CNR . Since then, he has been in charge of U.O.S. (2002-2015) and director of the Palermo research group “*Processi di Aggregazione Biomolecolare*” (2002 to Present). In all these years, the number of researchers and equipment of laboratories have experienced a considerable increase.

The research activity is based on complementary approaches to the study of biomolecular aggregation at microscopic and mesoscopic level by the use of Molecular Dynamics simulations and experimental techniques exploring different length scale. In particular, the research activity covers the following subjects: sol–sol–gel phase transition in proteins and biopolymer solutions; static and dynamic properties of polymers, polyelectrolytes, micro-emulsions and colloids; dynamics in crowded macromolecular solutions; glass transition; structure of amyloid fibrils and the mechanism of their formation using biophysical methods; protein folding; characterization of micro- to nano-particles for controlled drug delivery. The activity is proved by more than 130 published articles on ISI journal and book chapters, 2 edited books and more than 300 contributions presented at national and international meetings.

LAST 5-YEARS PUBLICATIONS

- [1] F. Provenzano et al., Water Extract of *Cryphaea heteromalla* (Hedw.) D. Mohr Bryophyte as a Natural Powerful Source of Biologically Active Compounds. *Int. J. Mol. Sci.* 20 (2020) 5560.
- [2] R. Santonocito et al., Recombinant mussel protein Pvfp-5beta: a potential tissue bioadhesive. *J Biol Chem* 294 (2019) 12826 – 12835.
- [3] V. Martorana et al., Amyloid jams: Mechanical and dynamical properties of an amyloid fibrillar network. *Biophys. Chemistry* 253 (2019)106231.
- [4] C. Caruso Bavisotto et al., Immunomorphological Pattern of Molecular Chaperones in Normal and Pathological Thyroid Tissues and Circulating Exosomes: Potential Use in Clinics. *International Journal of Molecular Sciences* 20 (2019) 4496.
- [5] D. Bulone, P.L. San Biagio, T. Quinones-Ruix, M.R. Alomar, I.K. Lednev, F.T. Robb, E. Conway de Macario, A.J. Macario, A multipronged method for assessing the effects of mutations on chaperone molecules causing human chaperonopathies, in: C.M. Gomes (Ed.) *Protein Misfolding Diseases: Methods and Protocols*, Springer (2019) pp. 69-92.
- [6] S. Vilasi, D. Bulone, C. Caruso Bavisotto, C. Campanella, A.M. Gammazza, P.L. San Biagio, F. Cappello, E. Conway de Macario, A.J. Macario, Chaperonin of Group I: Oligomeric spectrum and biochemical-biological implications, *Frontiers in Molecular Biosciences*, 4 (2018) 1 - 14.
- [7] P. Picone, M.A. Sabatino, L. Ditta, A. Amato, P.L. San Biagio, F. Mule, D. Giacomazza, C. Dispenza, M. Di Carlo, Nose-to-brain delivery of insulin enhanced by a nanogel carrier, *Journal of Controlled Release*, 270 (2018) 23 - 36.
- [8] K. Lefsih, D. Giacomazza, R. Passantino, M.A. Costa, D. Bulone, M.R. Mangione, V. Guarrasi, F. Mingoia, P.L. San Biagio, K. Madani, Biochemical and biophysical characterization of water-soluble pectin from *Opuntia ficus indica* and its potential biological activity, *Phytochemistry*, 154 (2018) 47 - 55.
- [9] D. Giacomazza, D. D'Andrea, A. Provenzano, P. Picone, F. Provenzano, V. Guarrasi, M. Raimondo, P.L. San Biagio, R. Passantino, M.R. Mangione, M. Di Carlo, M.A. Costa, The precious content of the olive mill wastewater: the protective effects of the antioxidant fraction in cell cultures, *Cyta - Journal of Food*, 15 (2018) 658 - 666.

- [10] D. Giacomazza, D. Bulone, P.L. San Biagio, R. Marino, R. Lapasin, The role of sucrose concentration in self-assembly kinetics of HM pectin, *Int'l J. Biol. Macromol.*, 112 (2018) 1183 - 1190.
- [11] D. Spigolon, D. Travis Gallagher, A. Velazques-Campoy, D. Bulone, J. Narang, P.L. San Biagio, F. Cappello, A.J.L. Macario, E. Conway de Macario, F.T. Robb, Quantitative analysis of the impact of a human pathogenic mutation on the CCT5 chaperonin subunit using a proxy archaeal ortholog, *Biochemistry and Biophysics Reports*, 12 (2017) 66 - 71.
- [12] C. Ricci, R. Carrotta, G.C. Rappa, M.R. Mangione, F. Librizzi, P.L. San Biagio, H.W. Amenitsch, M.G. Ortore, S. Vilasi, Investigation on different chemical stability of mitochondrial Hsp60 and its precursor, *Biophysical Chemistry*, 229 (2017) 31-38.
- [13] K. Lefsih, D. Giacomazza, F. Dahmoune, M.R. Mangione, D. Bulone, P.L. San Biagio, R. Passantino, M.A. Costa, V. Guarrasi, K. Madani, Pectin from *Opuntia ficus indica*: Optimization of microwave-assisted extraction and preliminary characterization, *Food Chem*, 221 (2017) 91-99.
- [14] A. Battisti, A.P. Piccionello, A. Sgarbossa, S. Vilasi, C. Ricci, F. Ghetti, F. Spinozzi, A.M. Gammazza, V. Giacalone, A. Martorana, A. Lauria, C. Ferrero, D. Bulone, M.R. Mangione, P.L. San Biagio, M.G. Ortore, Curcumin-like compounds designed to modify amyloid beta peptide aggregation patterns, *Rsc Adv*, 7 (2017) 31714-31724.
- [15] C. Ricci, M.G. Ortore, S. Vilasi, R. Carrotta, M.R. Mangione, D. Bulone, F. Librizzi, F. Spinozzi, G. Burgio, H. Amenitsch, P.L. San Biagio, Stability and disassembly properties of human naive Hsp60 and bacterial GroEL chaperonins, *Biophysical Chemistry*, 208 (2016) 68-75.
- [16] P. Picone, S. Vilasi, F. Librizzi, M. Contardi, D. Nuzzo, L. Caruana, S. Baldassano, A. Amato, F. Mule, P.L. San Biagio, D. Giacomazza, M. Di Carlo, Biological and biophysics aspects of metformin-induced effects: cortex mitochondrial dysfunction and promotion of toxic amyloid pre-fibrillar aggregates, *Aging (Albany NY)*, 8 (2016) 1718-1734.
- [17] P. Picone, G. Navarra, C. Peres, M. Contardi, P.L. San Biagio, M. Di Carlo, D. Giacomazza, V. Militello, Data concerning the proteolytic resistance and oxidative stress in LAN5 cell safter treatment with BSA hydrogels, *Data in Brief*, 9 (2016) 324 - 327.
- [18] M.C. Nicastro, D. Spigolon, F. Librizzi, O. Moran, M.G. Ortore, D. Bulone, P.L. San Biagio, R. Carrotta, Amyloid beta-peptide insertion in liposomes containing GM1-cholesterol domains, *Biophysical Chemistry*, 208 (2016) 9-16.
- [19] G. Navarra, C. Peres, M. Contardi, P. Picone, P.L. San Biagio, M. Di Carlo, D. Giacomazza, V. Militello, Heat- and pH-induced BSA conformational changes, hydrogel formation and application as 3D cell scaffold, *Archives of Biochem and Biophys*, 606 (2016) 134-142.
- [20] M.R. Mangione, S. Vilasi, C. Marino, F. Librizzi, C. Canale, D. Spigolon, F. Bucchieri, a. Fucarino, R. Passantino, F. Cappello, D. Bulone, P.L. San Biagio, Hsp60, amateur chaperone in amyloid-beta fibrillogenesis, *Biochimica et Biophysica Acta*, 1860 (2016) 2474 - 2483.
- [21] D. Giacomazza, D. Bulone, P.L. San Biagio, R. Lapasin, The complex mechanism of HM pectin self-assembly: a rheological investigation, *Carbohydrate Polymers*, 146 (2016) 181 - 186.
- [22] M.R. Mangione, A. Piccionello Palumbo, C. Marino, M.G. Ortore, P. Picone, S. Vilasi, M. Di Carlo, S. Buscemi, D. Bulone, P.L. San Biagio, Photo-inhibition of Ab fibrillation mediated by a newly designed fluorinated oxadiazole, *Rsc Adv*, 5 (2015) 16540 - 16548.
- [23] M. Cupane, V. Guarrasi, E. Palazzolo, P.L. San Biagio, M.A. Germanà, Characterization of Fruits of Four Different Lemon Cultivars, Collected in the Northern Coast of Sicily, *Hacta Horticulturae*, 1065 (2015) 1677 - 1683.
- [24] F. Cappello, A.M. Gammazza, S. Vilasi, M.G. Ortore, P.L. San Biagio, C. Campanella, A. Pace, A. Piccionello Palumbo, G. Taglialatela, A.J.L. Macario, E. Conway de Macario, Chaperonotherapy for Alzheimer's Diseases: Focusing on HSP60, in: A.A.A.A.e. al. (Ed.) *Heat Shock Protein-Based therapies*, Springer International Publishing, Switzerland, 2015.