

# Ana Maria Cuervo MD PhD

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Wikipedia: #1day#1women initiative: [Ana Maria Cuervo](#)

## CURRICULUM VITAE

### PERSONAL INFORMATION

**Date of Birth:** July 14, 1966    **Place of Birth:** Barcelona, Spain    **Citizenship:** American  
**Address:** Department of Developmental and Molecular Biology, Chanin Building R. 504, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461  
**Phone:** (718) 430 2689    **Fax:** (718) 430 8975    **e-mail:** ana-maria. cuervo@einstein.yu.edu

### POSITION TITLE

Robert and Renee Belfer Chair for the Study of Neurodegenerative Diseases  
 Professor Dept. of Development and Molecular Biology (with tenure)  
 Professor Dept. of Medicine (with tenure)  
 Professor Dept. of Anatomy and Structural Biology (with tenure)  
 Co-Director of the Einstein Institute for Aging Research  
 Member of the Marion Bessin Liver Research Center of the Albert Einstein College of Medicine.  
 Member of the Albert Einstein Cancer Center  
 Member of the Diabetes Research Center

### EDUCATION/TRAINING

Institution and Location	Degree	Year	Field of Study
University of Valencia, Spain	M.D.	1990	Medicine
University of Valencia, Spain	Ph.D.	1994	Biochem. & Mol. Biol.
Tufts University, Boston, USA	Postdoc	1995/8	Physiology

### Professional employment and Hospital appointments

1985/90 Research Fellow-Medical Student, Department of Physiology, School of Medicine, University of Valencia, Spain.

1991/94 Predoctoral Fellow, Instituto de Investigaciones Citologicas, Valencia, Spain.

1995/97 Postdoctoral Fellow, Department of Physiology, Tufts University, Boston MA, USA.

1998/01 Research Assistant Professor, Dept. Physiology, Tufts University, Boston, MA, USA.

2001/05 Assistant Professor, Depts. Anatomy and Structural Biology and of Medicine, Albert Einstein College of Medicine, Bronx, NY, USA

2001/ Member of the Marion Bessin Liver Research Center, Albert Einstein College of Medicine, Bronx, NY, USA.

2003 Member of the Institute for Aging Research, Albert Einstein College of Medicine

2005/09 Associate Professor, Depts. Anatomy and Structural Biology, Developmental and Molecular Biology and of Medicine, Albert Einstein College of Medicine, Bronx, NY, USA

2006/ Member of the Membrane Biology Program of the Albert Einstein Cancer Center, Albert Einstein College of Medicine, Bronx, NY, USA

- 2006/ Co-Director of the Institute for Aging Research, Albert Einstein College of Medicine
- 2009/11 Professor, Depts. Developmental and Molecular Biology and of Medicine, Anatomy and Structural Biology, Albert Einstein College of Medicine, Bronx, NY, USA
- 2011/ Professor (with tenure), Professor, Depts. Developmental and Molecular Biology, Anatomy and Structural Biology, and of Medicine, Albert Einstein College of Medicine, Bronx, NY, USA

### Board Certification

- 1994 Family Medicine (European Union countries)

### Professional Society Membership

- 1998- American Society for Cell Biology
- 1999- International Proteolysis Society
- 2000- Gerontological Society of America/ American Aging Association
- 2004- American Association of Anatomists
- 2008- American Society for Clinical Investigation

### Awards and Honors

- 1989 Research Fellowship Consellería Educació i Ciència, Generalitat Valenciana. Spain.
- 1991/94 Predoctoral Fellowship, Consejo Superior de Investigaciones Científicas, Madrid, Spain.
- 1991 Fellowship Dept. of Biochemistry, Kansas University Medical Center, Kansas City, MO.
- 1992 Fellowship Dept. of Physiology, Tufts University, School of Medicine, Boston, MA.
- 1993 Fellowship Dept. of Physiology, Tufts University, School of Medicine, Boston, MA.
- 1995/96 Postdoctoral Fellowship "Ramon Areces Foundation", Madrid, Spain.
- 1995 Maximum Honor Prize Doctoral Thesis.
- 1996 Garcia-Blanco Honor Medal for Young Researchers in Science and Experimental Medicine.
- 1997 American Liver Foundation Postdoctoral Research Award.
- 1998 American Medical Foundation Postdoctoral Fellowship (declined).
- 1998/ KO1 grant, National Institute on Aging, National Institutes of Health.
- 1999 Fellow 7th Annual Summer Training Course Experimental Aging Research. Ann Arbor , MI.
- 2000 Fellow of the NIA/Brookdale Foundation Summer Institute on Aging Research, Airlie, VI.
- 2000 Zucker Research Center for Women Scholars Grant
- 2000/2 American Federation for Aging Research Grant
- 2001/ Huntington's Disease Society of America Research Grant
- 2001/ Howard Hughes Medical Institute Biomedical Research Junior Faculty Start-Up Award
- 2002/ Ellison Medical Foundation New Scholar Award in Aging
- 2003/4 "Ad hoc" reviewer for NIH study section CDF-2 (June 2003, Feb 2004)
- 2004/ *Temporary Member* for NIH study section CMAD
- 2005 Vice-Chair Gordon Conference on Autophagy
- 2005 2005 R.R. Bensley Award in Cell Biology
- 2005/08 Keith Porter Fellow Award in Cell Biology

- 2005/08 Council member of the Harvey Society
- 2005 SAGE Crossroads Trading Cards (*profiles the 48 most accomplished, cutting-edge and controversial scientist in the field of aging research*)
- 2006 LaDonne Schulman Teaching Award
- 2006 Invited as “Program Highlights” in the National Advisory Council on Aging
- 2006 Nathan W. Shock Lecture Award on Aging
- 2006 Robert R. Kohn Memorial Lecture
- 2006 *Permanent Member* for NIH study section CMAD
- 2007 Editor-in-chief of *Aging Cell*
- 2007 2007 Glenn Award in Aging Research (“The Glenn Award)
- 2008 Chair Gordon Conference on Autophagy
- 2008 Elected membership to American Society of Clinical Investigation
- 2008 2008 Glenn Award in Aging Research (“The Glenn Award)
- 2008 Vincent Cristofalo "Rising Star" Award in Aging Research
- 2008 NIH Director’s Lecture
- 2009 Roy Walford Endowed Lecture
- 2009 Hirsch/Weill-Caulier Career Scientist Award
- 2009 co-Vice-Chair Gordon Conference on Biology of Aging
- 2009 Visiting Scholar of the Institute on Aging, U. Pennsylvania
- 2010 co-Chair Gordon Conference on Aging
- 2010 Bennett J. Cohen award to a leader in basic aging biology
- 2011 co-Chair Keystone conference: “Autophagy”
- 2011 Cherkin Award Lecture UCLA
- 2012 Marshall Horwitz Faculty Prize for excellence in research
- 2012 - Member of the NIH/NIA Scientific Council
- 2013 Feodor Lynen Lecturer Miami Winter Symposium
- 2013 LaDonne Schulman Teaching Award
- 2013- National Institute on Aging Merit Award
- 2014 Margaret Pitman Lecture, NIH
- 2014 Commencement Address, SUNY at Buffalo, NY
- 2014 2014 IUBMB Award Lecture, FEBS/EMBO Anniversary Conference
- 2014 David H. Murdock Lecture, Mayo-Karolinska Annual Meeting
- 2014 Gerry Aurbach Lecture, ASBMR
- 2014 Member of the NIH Council of Councils
- 2015 Saul Korey Prize in Translational in Medicine Science
- 2015 Robert Davis Lecture in Cell and Molecular Biology
- 2015 Dean’s Distinguished Lecture, University of Arkansas for Medical Sciences
- 2015 Keynote speaker – Keystone on Autophagy, Keystone
- 2015 Beall Distinguished Lecture, The Society for Neuroscience, Galveston Chapter
- 2015 Keynote speaker – European Cell Death Organization, Geneva
- 2015 SEBBM – Lecture L’Oreal-UNESCO for Women in Science
- 2015 International Academic of the Royal Academy of Medicine of Valencia, Spain

- 2016 Harvey Lecture, The Harvey Society, Rockefeller University, NY
- 2017 Member of the NIA Board of Scientific Counselors, NIA
- 2017 Distinguished Speaker of the Royal Academy of Sciences of Spain, Madrid, Spain
- 2017 Member for the Advisory Committee to the Deputy Director, NIH
- 2017 Keynote speaker – Third symposium on Autophagy, Madrid, Spain
- 2017 Elected Member of the Royal Academy of Sciences of Spain
- 2018 Oon Chiew Seng Distinguished Visitor, National University of Singapore
- 2018 Keynote speaker - ISEV2018 Annual Meeting, Barcelona, Spain
- 2018 Keynote speaker - APSA Annual Meeting
- 2018- Chair NIA Board of Scientific Counselors, NIA
- 2018 Named to 2018 Highly Cited Researchers List (ranking of top 1% cited reserchers)
- 2018 Elected Member of the American Academy of Arts and Sciences

## Other Professional Activities:

### (1) Scientific Review Activities

#### Journals:

Aging Cell	Journal of Biological Chemistry	Nature Medicine
American Journal of Physiology	Journal of Cell Biology	Nature Neuroscience
Autophagy	Journal of Cell Science	PNAS
Cell	Journal of Molecular Biology	Science
Experimental Gerontology	Journal of Neuroscience	Trends in Biotechnology
FASEB J	Molecular Biology of the Cell	Trends in Cell Biology
Int. J. Biochem. Mol. Biol.	Nature	

#### Grants and Awards:

NIH Study section CDF-2 (*ad hoc* June 2003; February 2004)  
 NIH Study section CMAD (*ad hoc* 2006-2006; *member* since February 2006 until 2011)  
 Alzheimer's association Research Grant Program,  
 Garcia-Blanco Honor Medal Award Committee,  
 American Federation for Aging Research National Scientific Advisory Council  
 Earth and Life Sciences Open Program, Netherlands Organization for Scientific Research  
 NIH/NIA Special Emphasis panel "Biology of Aging" (November 2005)  
 The Israel Science Foundation  
 The National Parkinson Foundation  
 The Hereditary Disease Foundation  
 The Ellison Medical Foundation: Aging Review Group  
 The European Research Council Advanced Grant Program  
 NIH Intramural review – CBMP, Bethesda  
 The Larry L. Hillblom Foundation

### (2) Editorial tasks

2003-2006	<u>Contributing editor</u> of SAGE KE (Science Aging Knowledge Environment)
2003- 2006	<u>Editorial Board</u> of Autophagy
2003- 2018	<u>Editorial Board</u> of Experimental Gerontology
2006-2016	<u>Associate Editor</u> of Autophagy
2006-2018	<u>Editorial Board</u> of Journal of Gerontology
2006-2007	<u>Section Editor</u> of Aging Cell
2007-	<u>Editor-in-chief</u> of Aging Cell
2011 -	<u>Faculty</u> of the section on Aging of Faculty1000
2011-	<u>Editorial Board</u> of Cell Metabolism
2014-	<u>Editorial Board</u> of Molecular Cell

### **(3) Organization of meetings**

- 2005 Vice chair of the 2005 Gordon Research Conference on Autophagy, Il Ciocco, Italy
- 2005 Co-organizer of the 2005 Workshop “Mechanisms of Aging and Neurodegenerative Age-associated Diseases: the Role of Autophagy”, Pisa, Italy,
- 2005 Co-organizer of the “Autophagy and HD” workshop of the Hereditary Disease Foundation
- 2005 Session Chair in “Strategies for Engineered Negligible Senescence Conference”, UK
- 2005-8 Member of the GRC council (elected)
- 2005-8 Member of the Harvey Lecture council
- 2006 Session Co-chair in “4<sup>th</sup> International Conference on Autophagy”, Japan
- 2007 Session Chair in “Biology of Aging” GRC, Switzerland
- 2008 Chair of the 2008 Gordon Research Conference on Autophagy, USA
- 2008 Organizer NIA Symposium: “Autophagy and Aging”, Ventura, CA, USA
- 2008 Session Chair, Brain Disease Meeting, Paris
- 2008 Session Chair, Understanding aging: biomedical approaches conference, USA
- 2009 co-Vice-Chair Gordon Conference on Aging, USA
- 2009 Session Chair, EMBO Conference on Molecular Chaperones, Dubrovnik, Croatia
- 2009 Session Chair, 5<sup>th</sup> International Symposium on Autophagy, Otsu, Japan
- 2009 co-Chair, Symposium on Autophagy, AASLD The liver Meeting, USA
- 2010 Session Chair, GRC on Autophagy, Il Ciocco, Italy
- 2010 co-organizer and Session Chair, EMBO symposium on Proteolysis, Madrid, Spain
- 2010 co-Chair Gordon Conference on Aging, Switzerland
- 2010 Session Chair, Annual Meeting SBMB, Cordoba, Spn
- 2011 co-Chair Keystone conference: “Autophagy”, Canada
- 2011 Session Chair, Autophagy and Cell Death, University of Buenos Aires, Argentina
- 2011 Session Chair, 2011 EMBO Autophagy, Jerusalem, Israel
- 2012 Session Chair, GRC on Autophagy, Ventura, CA
- 2012 Session Chair, Tau consortium, San Francisco, CA
- 2012 Session Chair, Keystone Symposium on Aging and Disease of Aging, Tokyo, Japan
- 2012 Session Chair, Autophagy International Society, Okinawa, Japan
- 2012 Session organizer - American Society for Cell Biology, San Francisco, CA, 2012
- 2013 Session Chair, GRC on Stress Proteins, West Dover, VT, 2013
- 2014 Program Committee member on Core Cell Biology for the 2014 ASCB

- 2104 Chair round table” Biology of Aging”, FEBS Izmir, Turkey, October 2014
- 2014 Chair Symposium: Life and Death in the Cell, ASCB, Philadelphia, PA, Dec 2014
- 2015 co-Chair, Keystone Symposium on Systems Biology of Lipid Metabolism, Keystone, 2015
- 2016 co-Chair Keystone conference: “Autophagy”, Whistler 2016
- 2016 co-organizer: “Chaperones in the maintenance of cellular proteostasis”, Baeza, Spain
- 2016 co-chair symposium on Autophagy and neurodegeneration, SFN, San Diego 2016
- 2016 Session Chair, EMBO workshop in cancer and Autophagy, Bilbao, Spain
- 2017 Session Chair Keystone Symposium on Aging, Yokohama, Japan
- 2017 Session Chair Keystone Symposium on Angiogenesis and Metabolism of the Heart, Santa Fe
- 2017 Session Chair IAGG 2017 World Congress in Global Aging, San Francisco, CA
- 2017 Co-organizer of the third symposium on Autophagy, University of Buenos Aires, BA, Argentina
- 2018 Chair NIDDK workshop on Autophagy and Kidney disorders (Chair), Bethesda, March 2018
- 2018 Chair NCI workshop on Lysosomes and Cancer (Chair), Bethesda, April 2018
- 2018 Session Chair Gerontological Society of America’s Biological Sciences, Boston, MA, Nov 2018
- 2019 co-Chair symposium, International Society from Neurochemistry, Montreal, Aug 2019 (tbh)
- 2019 Co-organizer of the Euro-Geroscience Conference, Madrid, Sept 2019 (tbh)

#### **(4) Advisory groups**

- 2002 NIH/NIA Workshop in Proteomics and Aging. Bethesda
- 2004 NIH/NINDS Workshop in Glycoproteinosis. Bethesda
- 2004 NIH/NIA Workshop in “Lysosomal enhancement and Aging”. Bethesda
- 2005 HDF Workshop in “Autophagy and HD”. New York (co-organizer)
- 2006 HDF Workshop in “The HD Therapeutic Pipeline”. Santa Barbara
- 2007 NIH/NIA Workshop in Protein Homeostasis, Repair and Degradation. Bethesda
- 2007 NIMH/NIH Workshop in Restorative efforts in Gaucher and PD. Bethesda
- 2008 NIA Biology of Aging Summit, Cambridge, MD
- 2009 NINDS New Perspectives in Translational Research Worskhop, Bethesda, MD
- 2009 External Advisory Committee of the Aging Center at Brown, COBRE program
- 2009 NIA Review of the Division of Aging Biology, Bethesda, MD
- 2010 Scientific advisory board of Link
- 2010 Aging Review Group of the Ellison Medical Foundation
- 2010 NewAmerica Foundation – Never Say Die panel, Washington DC, MD
- 2010 NIH Intramural review – CBMP, Bethesda, MD
- 2012 Workshop on Neurodegeneration: Opportunities for Collaboration Across Disease-Specific Research and Development Communities. Washington DC, MD.
- 2012/5 Member Scientific Advisory Council NIH/NIA
- 2012 NIH/NHLBI Workshop on Proteostasis, Washington DC, MD.
- 2012- Advisory Boar Keith Porter Endowment for enhancement of Cell Biology
- 2012- Scientific Advisory Board of the Buck Center for Studies in Aging Research, Novato, CA
- 2012 NHLBI workshop on Proteostasis, Bethesda, MD
- 2012 NIA Review of the Division of Neuroscience, Bethesda, MD
- 2013 NIH workshop of the Proteostasis interest group, Bethesda, MD
- 2013 Scientific Advisor of the NIHR Biomedical Research Center on Aging, New Castle, UK

- 2013 NIA Biology of Aging Summit on Advances in Geroscience, Bethesda, MD
- 2014 NIA Review of the Division of Aging Biology, Bethesda, MD
- 2014- Scientific Advisory Board Larry L. Hillblom Foundation, Petaluma, CA
- 2014- Scientific External Advisory Committee Yale Pepper Center on Aging, New Haven, CT
- 2014- Committee for The Feinstein Institute's Advancing Women in Science and Medicine
- 2014- Scientific External Advisor Instituto de Investigacion Sanitaria Biodonostia, SP
- 2016- NIA Theories of Aging Workshop, Baltimore, MD
- 2016- Scientific Advisory Board Institut Necker Enfants Malades, Paris, FR
- 2016- Scientific External Advisor of Centro de Medicina Regenerativa Barcelona (CMRB), SP
- 2017- Scientific and Technical Committee of the Spanish Research Agency, Madrid, SP
- 2017- Consejo Cientifico Fundacion Gadea por la Ciencia, SP
- 2018- Scientific Advisory Board CABD, Seville, SP
- 2017- Board of Scientific Counselors, NIA
- 2018- External Advisory Board CIB, Madrid, SP
- 2018- Advisory Committee to the Deputy Director from Intramural Research, NIH
- 2018- Member European Research Institute for Integrated Cellular Pathology
- 2018- Chair NIA Board of Scientific Counselors, NIA

#### **(5) Invited presentations (since 2006)**

1. Dept. Biochem. Mol. Biol, Michigan State University, East Lansing, Michigan, January 2006
2. 31<sup>st</sup> Annual Conference on Protein Structure and Function, Lorne, Australia, February 2006
3. Keystone Symposium: Protein Misfolding diseases: mechanisms of misfolding, pathology and therapeutic strategies, February 2006
4. World Parkinson Congress, February 2006
5. Department of Neuroscience, Cold Spring Harbor, New York, April 2006
6. Amicus Therapeutics, Cranbury, New Jersey, April 2006
7. NIDDK Center Director's Annual Meeting, Bronx, New York, May 2006
8. NIA National Advisory Council on Aging, May 2006
9. Department of Pathology, University of Washington, Seattle, May 2006
10. Banbury Center Conference: Parkinson's disease /Therapeutics, Cold Spring Harbor, May 2006
11. Division of Biological Sciences, University of California, La Jolla, May 2006
12. FASEB meeting for Protein Conformational Disorders, June 2006
13. 8<sup>th</sup> International Symposium Neurobiology and Neuroendocrinology of Aging, Austria, July 2006
14. Ellison Medical Foundation, Colloquium on Aging, Woods Hole, MA, August 2006
15. Barshop Institute for Longevity and Aging Studies, UTHSC-SA, San Antonio, August 2006
16. Department of Integrative Physiology, U. Colorado at Boulder, Boulder, September 2006
17. 4<sup>th</sup> Annual Nathan W. Shock Symposium, Towson, Maryland, September 2006
18. 4<sup>th</sup> International Conference on Autophagy, Japan, October 2006
19. Symposium "Disease modifying pathways in neurodegeneration", Society for Neuroscience Annual Meeting, Atlanta, October 2006
20. 5<sup>th</sup> Int. Conference Unstable Microsatellites Human Disease, Granada, November 2006
21. Grand Rounds NJ School of Medicine, November 2006
22. Annual Meeting American Association of Nephrology, San Diego, November 2006
23. Robert R. Kohn Memorial Lecture, Case Western Reserve University, December 2006
24. NIH/NIA Workshop in Protein Homeostasis, Repair and Degradation Bethesda, January 2007
25. 6<sup>th</sup> International Annaberg Conference, Goldegg, Austria, January 2007
26. Boston Biogen Corp., Boston February 2007
27. Department of Cell Biology and Physiology, Washington University, St. Louis, March 2007
28. Department of Neuroscience, Mt. Sinai School of Medicine, New York, March 2007



29. Department of Orthopedics, Univ. Jefferson, Philadelphia, March 2007
30. NIMH/NIH Workshop in Restorative efforts in Gaucher and PD, Bethesda, March 2007
31. 5<sup>th</sup> Annual CCPDER Meeting, Parkinson Institutes, Monterrey, April 2007
32. Keystone Symposium: Apoptosis and Autophagy, April 2007
33. Experimental Biology Annual Meeting, Washington DC, May 2007
34. Gordon Conference on CAG Triplet Repeat Disorders, Aussois, France, May 2007
35. 21<sup>st</sup> Symposium of The Protein Society, Boston, July 2007
36. Gordon Conference on Stress Proteins in Growth, Oxford, England, August 2007
37. Parkinson's Disease Foundation, 50<sup>th</sup> Aniversary Educational Symposium, NY, October 2007
38. 17<sup>th</sup> Arias Symposium of the American Liver Foundation, Boston, November, 2007
39. XV National Congress of Bioenergetics, Mexico, November 2007
40. Buck Institute's 2007 Symposium, Nutrient Signaling and Aging, Novato, November, 2007
41. Grand Rounds University of Pennsylvania, Philadelphia, November 2007
42. Dept. Physiology, Wayne State University, Detroit 2007
43. Cancer Research Center, Stanford University, San Francisco, February 2008
44. Dept. Neuroscience, Emory University, Atlanta, February 2008
45. International Conference on Brain Diseases, Paris, March 2008
46. Spring meeting of the British Society for Cell Biology, Warwick, April 2008
47. Department of Pharmacology, Boston University, Boston, April 2008
48. 5<sup>th</sup> SFB Symposium on Cell Behaviour in eukaryotes, Tuebingen, May 2008
49. Lysosomal Diseases and the Brain Conference, Sacramento, May 2008
50. Annual Meeting of the American Aging Association, Boulder, May 2008
51. Mucolipin Function in Disease Symposium, Bethesda, June 2008
52. Longevity Consortium Symposium, Boulder, June 2008
53. Aging Symposium, Understanding aging: biomedical approaches, Los Angeles, June 2008
54. Department of Physiology and Biophysics, University of Iowa, Iowa City, June 2008
55. BioSymposia: Sporadic Neurodegeneration, Boston, July 2008
56. Biology of Aging Summit, Cambridge, MD, September 2008
57. American Federation Aging Research Conference, Santa Barbara, September 2008
58. Link Biomedical, Cambridge, MA, September 2008
59. NIH Director's Wednesday Lecture, Bethesda, October 2008
60. Medical Biotechnology Center, Univ. of Maryland Biotechnology Institute, October 2008
61. Dept. Biology, MARC Program Invited Speaker, Queens College, Queens, NY, October 2008
62. ASHG Annual meeting "Autophagy in homeostasis and disease", Philadelphia, November 2008
63. CSIBD 18<sup>th</sup> Annual Workshop "Autophagy in Immunity", Boston, November 2008
64. Center for Neurosciences and Cell Biology, Univ. of Coimbra, Portugal, November 2008
65. Annual Symposium on Biological Complexity, La Jolla, January 2009
66. Department of Pathology and Laboratory Medicine, UCLA, Los Angeles, January 2009
67. Neuroscience Center, University of North Caroline, Chapel Hill, January 2009
68. Adler Symposium on Prototoxicity in Neurodegenerative Disorders, La Jolla, January 2009
69. NINDS New Perspectives in Translational Research Workshop, Bethesda, MD
70. Institute on Aging, University of Pennsylvania, Philadelphia, February 2009
71. Gordon Conference on Oxidative Stress and Disease, Il Ciocco, Italy, March 2009
72. Dept. of Cell Biology and Neuroscience, Rutgers State Univ., New Jersey, March 2009
73. Biochemistry Department, Univ. Nebraska Medical Center, March 2009
74. Sam and Ann Barshop Institute for Longevity and Aging Studies, San Antonio, April 2009
75. 2009 Experimental Biology Annual Meeting, Metabolism and Disease, New Orleans, April
76. Penn Visiting Scholars Series on Aging, U. Pennsylvania, Philadelphia, May 2009
77. 4<sup>th</sup> meeting on "Molecular Mechanisms of Neurodegeneration", Milan, May 2009
78. Huffington Center on Aging, Baylor School of Medicine, Huston, May 2009
79. Department of Biological Sciences, Southern Methodist University, Dallas, May 2009
80. EMBO-FEBS Workshop: "Chaperones in Aberrant Protein Folding", Croatia, May, 2009

81. Sigrid Juselius Symposium on Aging, Neurodegeneration and Mitochondria, Helsinki, 2009
82. FASEB conference on Chaperones and protein folding, Vermont, June 2009
83. Gordon Conference: Stress, Growth and Development, New Hampshire, July 2009
84. Strategies for Engineering Negligible Senescence (SENS4), Cambridge, Sept 2009
85. International PhD Student Symposium, Max Plank Res School. Gottingen, Sept 2009
86. Dept. Molecular Biology and Genetics, Cornell University, Ithaca, September 2009
87. 5<sup>th</sup> International Symposium on Autophagy, Otsu, Japan, September 2009
88. CSF European Autophagy Conference 2009, ETH, Ascona, Switzerland, November 2009
89. Department of Neuroscience, Universidad de Navarra, Oviedo Spain, November 2009
90. AASLD Annual Meeting: Symposium on Autophagy, Boston, November 2009
91. 62<sup>nd</sup> Gerontological Society of American Annual Meeting, Atlanta, November 2009
92. Centro Andaluz de Biología del Desarrollo, Universidad Pablo Olavide, Sevilla,, 2009
93. XIII Congreso de la Sociedad Espanyola de Biología Celular, Murcia, December, 2009
94. Centro Nacional de Investigaciones Oncologicas, Madrid, December, 2009
95. Centro de Investigaciones Biomedicas, Valencia, December 2009
96. Department of Cell Biology, University of Utrecht, Utrecht, The Netherlands, January 2009
97. 8<sup>th</sup> EMBO/Annaberg Conference, Dennis Shields Memorial, Annaberg, January, 2009
98. Dept. Pharmacology and cancer Biology, Duke University Medical Center, January 2010
99. The J. David Gladstone Institutes, San Francisco, February 2010
100. Department of Pathology, Harvard Medical School, Boston, February 2010
101. 2010 Keystone meeting on Biology of Aging, Tahoe City, California Feb, 2010
102. Orentreich Foundation for the Advancement of Science, Cold Spring-on-Hudson, March 2010
103. GRC Protein Transport Across Cellular Membranes, Galveston, Texas March 2010
104. 2010 Keystone Cell Death, Vancouver, CA, March 2010
105. 2008 Oxygen Club of California Conference, Santa Barbara, March 2010
106. 11<sup>th</sup> Servier-IGIS Symposium, St. Jean Cap Ferrat, France, March 2010
107. Department of Chemistry, The Scripps Research Institute, Florida, April 2010
108. 2010 GRC on Autophagy in Stress, Disease and Aging, Il Ciocco, April 2010
109. Symposium in Memory of Fred J Dice, Boston, MA, April 2010
110. University of Michigan, Geriatrics Research Symposium, Ann Arbor, MI, April 2010
111. EMBO conference on Neurodegeneration and Proteolysis. Madrid, Sph, May, 2010
112. Biology of Human Aging Brown Symposium, Providence, RI, April 2010
113. Biology on Aging series, Pittsburgh University, May 2010
114. SFRR-E free radicals summer school, Spetses, Greece, June, 2010
115. Centre de Regulacio Genomica, Barcelona, June, 2010
116. MDS 14<sup>th</sup> International Congress on Parkinson's Disease, Buenos Aires, June 2010
117. 2010 GRC Lysosomes and Endocytosis, Proctor Academy, Andover, NH, June 2010
118. Annual Conference of the British Society for Aging Research, Newcastle, UK, July 2010
119. XVV Meeting of the Brazilian Society for Cell Biology, Sao Paulo, Brazil, July 2010
120. 18<sup>th</sup> Euroconference on Apoptosis, Ghent, Belgium, September 2010
121. Summer School Danish PhD Graduate School of Metabolism, September 2010
122. Annual Conference Spanish Society of Biochemistry, Cordoba Spn, September 2010
123. Department of Pathology and Cell Biology, Columbia University, September 2010
124. Biochemistry and Biophysics Center Seminar Series, NHLBI, September 2010
125. 13th Annual John B. Little Symposium, Harvard School of Public Health, October 2010
126. 2010 Takeda Symposium on Autophagy, Cambridge, MA, October 2010
127. 2010 Chicago Biomedical Consortium symposium, October 2010
128. Aging Rehabilitation Seminar Series, University of Florida, November 2010
129. 2010 American Society for Cell Biology, Philadelphia, PA, December 2010
130. Life Science Seminars Series, Faculty of Science in Geneva, December 2010
131. Departamento de Neurociencias, Univesidad del Pais Vasco, Leioa, December 2010
132. Hereditary Disease Foundation Workshop, Santa Monica, CA, Jan 2011

133. Grand Rounds Neurology, New York Presbyterian Hospital-Weill Cornell, NY, Jan 2010
134. Pathology Research Lecture Series, UCSD, February 2011
135. Pfizer seminar series and round table, Groton, NY, February 2011
136. 2011 Keystone on Neurodegenerative Diseases, Taos, New Mexico, February 2011
137. Cologne sprint Meeting 2011, Cologne, Germany, March 211
138. 2011 Keystone on Autophagy, Vancouver, CA, March 2011
139. Barcelona BioMed Conference on Mitochondrial Autophagy, Barcelona, March 2011
140. Inter-departmental seminar, University of Minnesota, Minneapolis, April 2011
141. Department of Molecular Medicine, U of South Florida, April 2011
142. Sanford-Burnham Medical Research Institute Cancer Center, La Joya, April 2011
143. School of Gerontology, U Southern California, Los Angeles, April 2011
144. Inter-departmental seminar series, Fox-Drexel University, Philadelphia, PA, April 2011
145. Autophagy Symposium. Life Sciences Institute, U. Michigan, Ann Arbor, April 2011
146. State-of-the-Art lecture at Digestive Disease Week, Chicago, May 2011
147. 26<sup>th</sup> Annual IPSEN meeting: "Protein quality control", Paris, May 2011
148. Centro de Biomedicina, CSIC seminar series, Madrid, May 2011
149. Centro de Investigacion Principe Felipe, Valencia, May 2011
150. EMBO conference on Chaperones, Grundlsee, Austria, May 2011
151. Keystone symposium on Biology and Lipotoxicity, Ireland May 2011
152. MPI-Age seminar series, University of Cologne, Germany, May 2011
153. FASEB meeting on Protein Aggregation, Snowmass, CO, June 2011
154. American Diabetes Association Annual Meeting, San Diego, CA, June 2011
155. FASEB Conference on Immunology and nutrition, Arizona, July 2011
156. GRC Stress Proteins in Growth, Development and Disease, Il Ciocco, July
157. TAU consortium Annual Meeting, New York, July 2011
158. Kansas University, Liver Research Center, Kansas City, September 2011
159. Cherkin Award Lecture, UCLA, Los Angeles, CA September 2011
160. THE EMBO meeting, "Autophagy and Disease", Vienna, September 2011
161. Von Figura Symposium on Cellular trafficking, Hamburg October 2011
162. UB Symposium on Autophagy, U. Buenos Aires, Buenos Aires, October 2011
163. EMBO workshop on Autophagy in health and disease, Jerusalem, Israel, October 2011
164. Laboratoire de Physiologie Cerebrale, University Paris, Paris, November 2011
165. Special Lecture, Graduate Program, University of Brescia, Italy, November 2011
166. Zing Conference on Autophagy, Mayan Riviera, Mexico, December 2011
167. Dept. Biochemistry, Boston University, Boston, December 2011
168. Rigel Pharmaceuticals, South San Francisco, CA, January 2012
169. Diabetes Center University of Alabama at Birmingham, AL, January 2012
170. 2012 Keystone Symposium on Cancer and Metabolism, Banff, Alberta, February 2012
171. Biology of Aging interest group, Yale University, New Haven, March 2012
172. Drug discovery for ALS, Workshop ALS Association, Washington DC, March 2012
173. GRC on Autophagy, Ventura, CA, March 2012
174. Glenn Laboratories for the Biology of Aging at Stanford, Stanford U, Palo Alto, March 2012
175. RNA and Neuro-Therapeutics Institute, U. Mass, Worcester, MA, March 2012
176. Tau consortium, New York, NY, March 2012
177. Department of Biochemistry, University of West Virginia, Virginia, April 2012
178. NYAC workshop on Autophagy, New York, April 2012
179. Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester, April 2012
180. Institute of medicine's Forum on Neuroscience Workshop, Washington DC, May 2012
181. Molecular Metabolism and Nutrition Center, University of Chicago, Chicago, May 2012
182. Department of Pathology, New York University, New York, May 2012
183. Harvard/Paul F. Glenn Aging Symposium at Harvard, Boston, MA, June 2012
184. Ubiquitin Drug Discovery & Diagnostics Conference, Philadelphia, July 2012

185. Tau Consortium summer conference, San Francisco, CA, July 2012
186. Frontiers in Lipid Biology, ASBMB, Banf Alberta, Canada, September 2012
187. 2012 European Cell Death Organization, Rome, Italy, September 2012
188. NYAS: Autophagy Therapeutic Target in Multiple Diseases, New York, September 2012
189. 48<sup>th</sup> Annual Meeting European Association for the Study of Diabetes, Berlin, Oct 2012
190. DZNE German Center for Neurodegenerative Diseases, Bonn, Germany, Oct 2012
191. Keystone Symposium on Aging, Tokyo, Japan, October 2012
192. 6<sup>th</sup> International Symposium on Autophagy, Okinawa, Japan, October 2012
193. Salk Institute symposium on Stem cell and Metabolism, San Diego, CA, November 2012
194. Dept. Cellular and Molecular Medicine, U. California, San Diego, CA, November 2012
195. 7<sup>th</sup> Inproteolysis Meeting in Protein Quality Control, Istanbul, Turkey, November 2012
196. NHLBI workshop on Proteostasis, Bethesda, MD, November 2012
197. Institute Environmental Medicine at The University of Pennsylvania, Philadelphia, Nov 2012
198. 2012 American Society for Cell Biology, San Francisco, CA, December 2012
199. Dept Biochemical and Mol Biol, IBUB Barcelona, December 2012
200. Keystone Symposium on Mitochondria and Metabolism, Keystone, CO, February 2013
201. 2013 Miami Winter Symposium, *Feodor Lynen Lecturer*, Miami, February 2013
202. Avon Products – Cell Biology and In Vitro Toxicology Unit, Suffern, NY, February 2013
203. MSTP Program University of California at Irvine, Irvine, CA, March 2013
204. Center for Drug Research, University of British Columbia, Vancouver, March 2013
205. Jacques Monod Conference, Roscoff, France, April 2013
206. MRC Laboratory of Molecular Biology, Cambridge, UK, May 2013
207. The Babraham Institute, Cambridge, UK, May 2013
208. EMBO Conference on Autophagy, Tromso, Norway, May 2013
209. Aging Center, Tulane University, New Orleans, May 2013
210. International Cell death society: Mechanisms of cell death, Malaga, June 2013
211. Congreso de la Sociedad de Geriatria Espanola, Valencia, Spain, June 2013
212. Conference on Systems Medicine in Cancer, MKFZ, Berlin, Germany, June 2013
213. European Society for Neurochemistry Annual Meeting, Bath, England. June 2013
214. GRC Stress proteins in growth, development and Disease, Mt Snow, VT, July 2013
215. Summer Institute of Aging, NIA/NIH, Bethesda, MD, July 2013
216. Alzheimer's Association International Conference, Boston, MA, July 2013
217. GRC Biology of Aging, Il Ciocco, Italy, August 2013
218. Aging Center, Cologne University, Cologne, Germany September 2013
219. New Castle Symposium on Aging Advances, New Castle, UK, September 2013
220. Centro de Investigaciones Biologicas, CIB-CSIC, Madrid, Spain, September 2013
221. Italian Society for Cell Biology, Ravenna, September, 2013
222. 3<sup>rd</sup> Scientific meeting of the French Autophagy Society (CFATG), Grasse, France, Sept 2013
223. Department of Biochemistry and Molecular Biology, U. Nebraska, Nebraska, October, 2013
224. Institut Curie , Cancer Biology Unit , Paris, France, October 2013
225. Cantoblanco Workshop on Tau, Madrid, Spain, October 2013
226. 2013 Alliance for Healthy Aging Symposium, Netherlands, November 2013
227. 2013 Kidney Week, Atlanta, November 2013
228. Neuroscience Department, Gententech, San Francisco, December 2013
229. Institute for Research in Biomedicine, Bellinzona, Switzerland, December 2013
230. Keystone Symposium on Challenges and Opportunities in Diabetes, Vancouver, Cnd, Jan 2014
231. Cell Biology and Molecular Pharmacology, Memorial Sloan-Kettering Cancer, NY, Jan 2014
232. Keystone symposium on Cilia, Development and Disease, Tahoe City, California, March 2014
233. Cystinosis Research Foundation 4<sup>th</sup> International Symposium, Irvine, CA, March 2014 Keynote
234. GRS on Autophagy, in cell death and disease, Il Ciosco, Italy, , March 2014 Keynote
235. Margaret Pitman Lecture at NIH, Bethesda, MD, March 2014
236. Mahoney Institute of Neuroscience, University of Pennsylvania, Philadelphia, PA, March 2014

237. Pennington Biomedical Research Center, Louisiana State U., Baton Rouge, LA, April 2014
238. Biology of Aging, seminar series. U. Seattle, Seattle, WA, April 2014
239. Department of Neurology, U. Texas Health Science Center at Houston, TX, April, 2014
240. Department of Physiology, U. Texas Southwestern Medical Center, Dallas, TX, April, 2014
241. Medical University, South Caroline, April 1024
242. Department Cell and Molecular Biology, Scripps, San Diego, CA, April 2014
243. Scripps Florida Workshop on Aging Research, Jupiter, FL, May, 2014
244. Distinguished Research Seminar, SUNY at Buffalo, Buffalo NY, May 2014
245. Experimental Biology, ASBMB "Postranslation Protein Regulation", San Diego, CA, May 1 2014
246. Keystone Symposium on Autophagy: Fundamentals to Disease, Austin, Texas, May 2014
247. Third Symposium on Ubiquitin, Protein Quality Control, North Dakota, June 2014 Keynote
248. Annual Symposium on Cellular Homeostasis, Seoul, Korea, June 2014
249. Curso de verano U. Pais Vasco, Envejecimiento Saludable, San Sebastian, June 2014
250. GRC on Neurobiology of Brain Disorders, Barcelona, Spain, July 2014
251. Protein homeostasis, metabolism and cancer, Vallee Foundation, Boston, MA, August 2014
252. Summer Institute on Aging, NIH/NIA Bethesda, MD, August 2014
253. FEBS-EMBO2014, Keynote Speaker, Paris, France, September 2014 Keynone
254. 20<sup>th</sup> Mayo-Karolinska Annual Meeting, David Murdock Lecture, Rochester, Sept 2014
255. ASBMR conference, Gerry Aurbach keynote lecture, Houston, TX, September 2014 Keynote
256. Zing Conference, Biology of Human Aging, Toledo, October, 2014
257. 2014 Summer School Society for Free Radical, Healthy Aging, Spetses, October 2014
258. INSERM Laboratory of glycobiology, Paris, October 2014
259. Karakoy Autophagy Symposium, Sabaci Univeristy, Istanbul, October 2014
260. FEBS workshop on lysosomes, Izmir, Turkey, October 2014
261. GSA Symposium on Protein Homeostasis, Washington DC, MA, November 2014
262. CNIC Confrence: Energy homeostasis and metabolic disease, Madrid, Spain November 2014
263. Biology Department, College of Staten Island, CUNY, NY, December 2014
264. Pew Charitable Trust/Rosalind Franklin Society Annual Meeting, Washington DC, Dec 2014
265. Institute of Neurosciences Annual Symposium, Alicante, Spain, Dec 2014
266. Department of Pathology, Feinstein LIJI, Long Island, NY, Jan 2015
267. 2015 Keystone Symposium: Systems Biology Lipid Metabolism, Breckenridge, CO, Feb 2015
268. NPC Workshop and Colloquium, St. Louis, MO, February 2015
269. Symposium on Proteostasis. Washington University, St. Louis, MO, February 2015
270. Department of Medicine, National Jewish Health, Denver CO, March 2015
271. Department of Ophthalmology and Pathology, Duke University, Durham, NC, March 2015
272. 7<sup>th</sup> International Symposium on Autophagy, Huangshan, China, March 2015
273. Institute of Genetics and Developmental Biology, CAC, Beijin, China, March 2015
274. Department of Medicine, Columbia University, New York, NY, April 2015
275. Hereditary disease society: workshop on neurodegeneration and proteostasis, NY, April
276. Robert Davis Lecture 2015, Rutgers University, New Jersey, April 2015
277. 8<sup>th</sup> Annual Pfizer Frontiers in Human Disease Symposium, New York, NY, April 2015
278. Department of Cellular and Molecular Physiology (**Student Invited**), Yale U., N H, CT, May 2015
279. Vienna International PhD Program Molecular Mechanisms of Cell Signaling, Viena, May, 2015
280. EMBL Symposium: Mechanisms of Neurodegeneration, Heidelberg, Germany, May 2015
281. Keystone Symposium on Autophagy, Keystone, CO, June 2015 Keynote
282. GRC: Parkinson's disease, Colby-Sawyer College in New London, New Hampshire, June 2015
283. 40<sup>th</sup> FEBS congress, The biochemical basis of life, Berlin, Germany, July 2015
284. GRC: Stress Proteins in Growth, development and Disease, Il Ciocco, Lucca, Italy, June 2015
285. 2<sup>nd</sup> Conference on Cellular Senescence, Santiago de Compostela, Spain, July 2015
286. 4<sup>th</sup> Int. Conference on Advances in Pathogenesis of glycoproteinoses, St. Louis, July 2015
287. Cold Spring Harbor: Metabolic Signaling and Disease, Cold Spring Harbor, NY, August 2015
288. SEMBS Annual Meeting. – L'Oreal-UNESCO Lecture, Valencia, Spain September 2015

289. EMBO conference on Autophagy, Sardinia, Italy, September 2015
290. Telethon Institute of Genetics and Medicine, Pozzuoli, NA, Italy, October 2015
291. COMBIO meeting 2015, Melbourne, Australia, September 2015
292. Grand Challenges in Parkinson's disease, Grand Rapids, Michigan, October 2015
293. European Cell Death Organization Conference, Geneva, Switzerland, October 2015
294. MGH Cell Biology Seminar Series/Retreat, Boston, MA, October 2015 Keynote
295. Department of Cell Biology, University of Quebec, Canada, October 2015
296. The Society for Neuroscience, Galveston Chapter, Special Seminar, UTMB, Nov 2015
297. The Liver Symposium, Boston, MA, November 2015
298. Department of Cellular and Molecular Medicine, U. Arizona, Tucson, AZ, November 2015
299. Symposium on Molecular Basis of Type 2 Diabetes, Karolinska Institute, Stokolm, Nov 2015
300. The Mayo Clinic Robert and Arlene Kogod Center on Aging, Rochester, MN, Dec 2015
301. Royal Academy of Medicine of Valencia, Investment as International Member Lecture, Dec 2015
302. 2016 Transatlantic Conference in Lung Disease, Switzerland, Jan 2016
303. NIA workshop on Translational Aging, Baltimore, Jan 2016
304. MD Anderson Cancer Center, Houston, Feb 2016
305. 1st INEM International Symposium "Proteostasis in Growth and Disease", Paris, Feb 2016
306. Diabetes Research Center at the University of Iowa, March 2016
307. Department of Physiology, University of Oregon, March 2016
308. GRC on Autophagy, Ventura, California, March 2016
309. 7<sup>th</sup> Proteasome and Autophagy Workshop/COST meeting, Clemont Ferrand, Frc, April 2016
310. Autophagy symposium, University of Taiwan, April 2016
311. CSH Asia "Ubiquitin Family, Autophagy and Diseases" Suzhou, China, April 2016
312. **Student's Choice** Speaker, UAMS, April 2016
313. Grand Rounds Medicine, University of Pittsburg, Pittsburg, PA, March 2016
314. Oklahoma Center on Aging, Oklahoma University Health Science Center, May 2016
315. University Medical Center Utrecht, Netherlands, May 2016
316. Department of Pathology (Grand Rounds) University of Maastrich, Netherlands, May 2016
317. ECUSA seminar series, Washington, DC, May 2016
318. American Aging Association annual meeting, Seattle, May 2016
319. Keystone Symposium: Autophagy. Whistler, British Columbia, Canada, June 2016
320. Finland Centre of Excellence in Biomembrane Research *ProLipids, Majkvik Finland, June 2016*
321. FASEB Conference: Liver Biology. West Palm Beach, Florid, July 2016
322. RAND Summer Institute's Mini-Medical School for Social Scientists, St. Monica, CA, July 2016
323. Universidad de Verano, Melendez Pelayo, Santander, July 2016
324. GRC on Protein processing Trafficking and Secretion, July 2016
325. EMBO workshop in membrane trafficking, Santiago, Chile Sept 2016
326. Research Seminar Amgen Inc., Boston Sept 2016
327. New York Academy of Medicine, Symposium "Autophagy and Clinical discovery", NY Sept 2015
328. EMBO workshop in cancer and autophagy, Bilbao, Spain, Oct 2016
329. UCLA for the Molecular Biology Institute, Los Angeles, November, 2016
330. Chaperones in maintenance of cellular proteostasis workshop, Baeza, SP, November 2016
331. SFN Autophagy and neurodegeneration symposium, San Diego, CA, November 2016
332. ICGEB Workshop, Santiago, Chile Nov, 2016
333. I Congreso Nacional Predocs Biomedicina, Valencia, SP, November 2016 (**Student invited**)
334. NIH Workshop on Synergy between AD Research and Gerontology, Bethesda, Dec 2016
335. NIH/NIA workshop "Development of human aging predictive markers", Bethesda, Dec 2016
336. 2nd Scripps Florida Symposium Biology of Aging, Jupiter FL, January 2017
337. FDA/Center for Drug Evaluation and Research Seminar series, SilverSpring, MD, January 2017
338. Neuroscience Seminar Brain and Mind Institute, Weill Cornell, New York, February 2017
339. Royal Academy of Sciences, Madrid, Spain, March 2017
340. GRC Oxidative Stress and Disease, Il Ciocco, IT, March 2017

341. 2017 Deuel Conference on Lipid Biology, Monterey CA, March 2017
342. Graduate School University of Colorado, (**Student Invited**), April 2017
343. Rockefeller/Cornell/Sloan/Mt.Sinai series on AD research, NY, NY, April 2017
344. Metabolic Disorders and liver Cancer, Palma Mallorca, SP, April 2017
345. 8<sup>th</sup> International Symposium on Autophagy, Nara, JP, May 2017
346. Keystone Symposium on Aging and Mechanisms of Disease, Yokohama, JP, May 2017
347. CNIO Frontiers meeting “Molecular Chaperones in Cancer”, Madrid, SP, May 2017
348. Keystone on Angiogenesis and metabolism in the heart, Santa Fe, May 2017
349. NIH/NIAMS 2017 Scientific Training, Keynote speaker, Bethesda, June 2017
350. NY Academy of Sciences Neuroplasticity, Neuroregeneration, and Brain Repair, NY June 2017
351. 11<sup>th</sup> NIA Division of Aging New Investigators Forum, Keynote, Bethesday, July 2017
352. RAND Summer Institute’s Mini-Medical School for Social Scientists, St. Monica, CA, July 2017
353. IAGG 2017 World Congress, Global aging and Health, San Francisco, July 2017
354. Department of medicine, Johns Hopkins Asthma and Allergy Center, August 2017
355. Cold Spring Harbor, 9th International Conference on Annexins, CSH NY, Sept 2017
356. EMBO Conference on Autophagy, Dubrovnik, CR, September 2017
357. Division Basic Sciences, Fred Hutchinson Cancer Center, Seattle October 2017
358. Workshop on Autophagy, University of Buenos Aires, October 2017
359. 2<sup>nd</sup> conference on Autophagy, Madrid, Spain November 2017
360. Symposium on leaders of autophagy (honoring P Codogno), Paris, Nov 2017
361. Institut de recherches Cliniques de Montreal, Montreal, CA, Jan 2018
362. Cancer & Blood Diseases Institute, Cincinatti Children’s, Feb 2018
363. Mt. Sinai Diabetes Center, New York, Feb 2018
364. Visiting Professor Yale Pepper Center, Yale University, New Heaven, Feb 2018
365. NIH Summit on Alzheimer’s Disease, Bethesda, March 2018
366. NIDDK workshop on Autophagy and Kidney disorders (Chair), Bethesda, March 2018
367. Oon Chiew Seng Distinguished Visitor, Publick Lecture, Singapore, March 2018
368. Oon Chiew Seng Distinguished Visitor, National University of Singapore, March 2018
369. 2018 Gordon Research Conference on Autophagy, Il Ciocco, Italy, March 2017
370. NCI workshop on Lysosomes and Cancer (Chair), Bethesda, April 2018
371. APSA Annual Meeting (Keynote), Chicago April 2018
372. ISEV2018 Annual Meeting (Keynote), Barcelona, May 2018
373. EMBO workshop on Lysosomes, Napoli, Italy, May 2018
374. UCSF Memory Center, San Francisco, May 2018
375. FASEB Liver Biology meeting, Phoenix, AZ, June 2018
376. Keystone symposia on Neurodegenerative Diseases, Keystone, CO, June 2018
377. CALICO research seminar series, San Francisco, July 2018
378. Summer Institute on Aging, NIH/NIA Bethesda, MD, August 2018
379. GRC on Neurobiology of Brain Disorders, Casteldefells, Spain, August 2018
380. ECUSA Ramon y Cajal Conference series, Boston, September 2018
381. International Liver Cancer Association 12th Annual Conference, London, September 2018
382. Dept. Microbiology, Biochemistry Molecular Genetics (**Student invited**), Rutgers NJ, Oct 2018
383. IPSEN meeting – Exciting Biologies Series, Phoenix, October 2018
384. IMDEA-Food Conference, Madrid, October 2018
385. 218<sup>th</sup> Meeting of the Interurban Clinical Club, New York, Nov 2, 2018
386. Gerontological Society of America’s Biological Sciences, Boston, MA, Nov 2018
387. “*Cell Biology of Neurodegeneration*” symposium, New York, Nov 2018
388. Cancer Metabolism Seminar *Sanford Burnham MD Institute, San Diego, Dec 2018*
389. Dept. Cell Biology, John Hopkins School of Medicine, Baltimore, Jan 2019 (tbh)
390. Ron Khan Lecture, Joslin Diabetes Center, Harvard Medical School, Jan 2019 (tbh)
391. Keystone Symposium: Autophagy, Santa Fe, Feb 2019 (tbh)
392. The Preuss Foundation Seminar on Parkinson’s Disease, La Jolla, CA, Feb 2019 (tbh)

393. GRC on Lysosomal Diseases, Galveston, Tx, March 2019 (tbh) (**Keynote**)
394. Nature Conference on Cellular Metabolism, Xiamen China, April 2019 (tbh)
395. Cell Biology and Physiology Center (CBPC) of the NHLBI, Bethesda, MD April 2019 (tbh)
396. Achucaro Forum, Bilbao, Spain May 2019 (tbh)
397. 2019 Cold Spring Harbor meeting on Mechanisms of Metabolic Signaling, NY May 2019 (tbh)
398. Nature conference on "Ageing, Healthspan and Rejuvenation", Rotterdam, NH, June 2019 (tbh)
399. Protein Dynamics and Cancer Symposium, Beatson International. Galsglow, July 2019 (tbh)
400. RAND Summer Institute's Mini-Medical School, St. Monica, CA, July 2019 (tbh)
401. GRC Biology of Aging, Main July 2019 (tbh)
402. Summer Institute on Aging, NIH/NIA Bethesda, MD, August 2019 (tbh)
403. ISN/ASN Symposium on Autophagy, Montreal CA, August 2019 (tbh)
404. EMBO conference on Autophagy, Scotland, August 2019 (tbh)
405. Euro-Geroscience conference, Madrid, Spain September 2019 (tbh)
406. CSH Asia, Stem cell, Aging and Rejuvenation, Suzhou, China, Sept 2019 (tbh)
407. Oentreich Foundation conference on Aging, New York, Oct 2019 (**Keynote**)
408. ISA conference on Autophagy, Taipei, Taiwan November 2019 (tbh)
409. 9th Int. Congress on Stress Responses in Biology and Medicine, SD, Nov 2019 (**Keynote**) (tbh)
410. Keystone symposium on Aging, Vancouver Canada Feb 2020 (tbh)
411. Dept. Molecular Physiology, U. Iowa, Iowa, May 2020 (tbh)
412. FEBS Summer Course on Proteostasis, Spetses Greece, Sept 2020 (tbh)



## BIBLIOGRAPHY

Google Scholar: Citations: 47,627; h index: 98; i10-index: 196

### A. Original Communications in Reviewed Journals:

#### A.1. Experimental papers

1. Romá, J.; **Cuervo, A.M.**; Macián, F.; Raya, A. Efectos de la administracion cronica oral de cafeína sobre la función neuromuscular periférica. Estudio experimental "in vivo". *Dolor e inflamación* 2, 57-58, 1989.
2. Romá, J.; **Cuervo, A.M.**; Macián, F.; Raya, A.; Romero, F.J. "In vivo" study of the effect of bilateral nephrectomy on the peripheral neuromuscular function of the rat tail. *Eur. J. Neurosci. Suppl.* 2, 147, 1989.
3. Romá, J.; Raya, A.; **Cuervo, A.M.**; Macián, F.; Gallego, J.; Romero, F.J. Dose and temperature-dependence of the neuromuscular toxicity of diphenylhydantoin. *Eur. J. Neurosci. Suppl.* 3, 122. 1990
4. Romá, J.; **Cuervo, A.M.**; Macián, F.; Raya, A.; Gallego, J.; Llopis, J.E.; Romero, J. Temperature dependence of the toxic effects of phenytoin on peripheral neuromuscular function of the rat tail. *Neurotoxicol. Teratol.* 12, 627-631, 1990.
5. Aniento, F.; Roche, E.; **Cuervo, A.M.**; Knecht, E. Uptake and degradation of the cytosolic enzyme glyceraldehyde-3-phosphate dehydrogenase by rat liver lysosomes. *J. Biol. Chem.* 268, 10463-10470, 1993.
6. Raya, A.; **Cuervo, A.M.**; Macián, F.; Romero, F.J.; Romá, J. Nerve conduction velocity decrease and synaptic transmission alteration in caffeine-treated rats. *Neurotoxicol. Teratol.* 16, 11-15, 1994.
7. **Cuervo, A.M.**; Terlecky, S.R.; Dice, J.F.; Knecht, E. Selective uptake and degradation of ribonuclease A, ribonuclease S-peptide and glyceraldehyde-3-phosphate dehydrogenase by isolated rat liver lysosomes. *J. Biol. Chem.* 269, 26374-26380, 1994.
8. **Cuervo, A.M.**; Palmer, A.; Rivett, A.J.; Knecht, E. Degradation of proteasomes by lysosomes in rat liver. *Eur. J. Biochem.* 227, 792-800, 1995.
9. **Cuervo, A.M.**; Knecht, E.; Terlecky, S.R.; Dice, J.F. Activation of a selective pathway of lysosomal proteolysis in rat liver by prolonged starvation. *Am. J. Physiol.* 269, C1200-C1208, 1995.
10. **Cuervo, A.M.**; Dice, J.F. A receptor for the selective uptake and degradation of proteins by lysosomes. *Science* 273, 501-503, 1996.
11. Adra, C.N.; Zhu, S.C.; Ko, J.L.; Guillemot, J.C.; **Cuervo, A.M.**; Kobayashi, H.; Horiuchi, T.; Lelias, J.M.; Rowley, J.D.; Lim, B. Laptm5- A novel lysosomal-associated multispinning membrane protein preferentially expressed in hematopoietic cells. *Genomics* 35, 328-337, 1996.
12. **Cuervo, A.M.\***; Dice, J.F.; Knecht, E. A population of rat liver lysosomes responsible for the selective uptake and degradation of cytosolic proteins. *J. Biol. Chem.* 272, 5606-5615, 1997.

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13. **Cuervo, A.M.\***; Hu W.; Lim, B.; Dice, J.F. I $\kappa$ B is a substrate for a selective pathway of lysosomal proteolysis. *Mol. Biol. Cell* 9, 1995-2010, 1998.
14. **Cuervo, A.M.\***; Hildebrand, H.; Bomhard, E.M.; Dice, J.F. Direct lysosomal uptake of alpha-2-microglobulin contributes to chemically induced nephropathy. *Kidney Int.* 55, 529-545, 1999.
15. **Cuervo, A.M.**; Dice, J.F. Regulation of lamp2a levels at the lysosomal membrane. *Traffic* 1, 572-580, 2000.
16. **Cuervo, A.M.**; Dice, J.F. Age-related decrease in chaperone-mediated autophagy. *J. Biol. Chem* 275, 31505-31513, 2000.
17. **Cuervo, A.M.**; Gomes, A.V.; Barnes, J.A.; Dice, J.F. Selective degradation of annexins by chaperone-mediated autophagy. *J. Biol. Chem.* 275, 33329-33335, 2000.
18. **Cuervo, A.M.\***; Dice, J.F. Unique properties of lamp2a compared to other lamp2 isoforms. *J. Cell Sci.* 113, 4441-4450, 2000.
19. Martin, A.; Joseph, J.A.; **Cuervo, A.M.\***. Stimulatory effect of vitamin C on autophagy in glial cells. *J. Neurochem* 82, 538-549, 2001.
20. **Cuervo, A.M.\***; Mann, L.; Bonten, E.; D'Azzo, A.; Dice, J.F. Cathepsin A regulates chaperone-mediated autophagy through cleavage of the lysosomal receptor. *EMBO J.* 22, 47-59, 2003.
21. Ding, Q.; Dimayuga, E.; Martin, S.; Bruce-Keller, A.; Nukala, V.; **Cuervo, A.M.**; Keller, J.K. Characterization of chronic low-level proteasome inhibition on neural homeostasis. *J. Neurochem.* 86, 489-97, 2003.
22. Yu, H.; **Cuervo, AM.**; Kumar, A.; Tjernberg, L.; Farmery, MR.; Peterhoff, CM.; Nixon, RA. Autophagic Vacuoles Contain High Beta and Gamma Secretase Activities. *Neurobiol. Aging* 25, P1-163, 2004.
23. Yu, WH.; Kumar, A.; Peterhoff, C.; Shapiro Kulnane, L.; Uchiyama, Y.; Lamb, B.T.; **Cuervo, A.M.**; Nixon, RA. Autophagic vacuoles are enriched in amyloid precursor protein-secretase activities: implications for  $\beta$ -amyloid peptide over-production and localization in Alzheimer's disease. *Int. J. Biochem. Mol. Biol.* 36, 2531-2540, 2004
24. **Cuervo, A.M.\***; Stephanis, L.; Freundberg, R.; Lansbury, P.; Sulzer, D. Impaired degradation of mutant alpha-synuclein by chaperone-mediated autophagy. *Science* 305, 1292-1295, 2004
  - *F1000 Recommended: Daniel Klionsky: Faculty of 1000 Biology, 9 Sept 2004*
25. Kiffin, R.; Christian, C.J.; Knecht, E.; **Cuervo, A.M.\*** Activation of chaperone-mediated autophagy during oxidative stress. *Mol Biol Cell* 15, 4829-4840, 2004
  - *F1000 Recommended: Thomas Nystrom: Faculty of 1000 Biology, 7 Sept 2004*
  - *Featured in News and Views (Nat. Med)*
26. Nixon RA, Wegiel J, Kumar A, Yu WH, Peterhoff C, Cataldo A, **Cuervo AM**. Extensive involvement of autophagy in Alzheimer disease: an immuno-electron microscopy study. *J. Neuropathol Exp Neurol.* 64,113-22, 2005
27. Yu, W.H.; **Cuervo, A.M.**; Kumar, A.; Schmidt, S.D.; Grbovic, O.; Terio, NB.; Jiang, Y.; Peterhoff, C.; Mathews, P.; Cataldo, A.; Nixon, RA. Autophagy-dependent generation of the Amyloid- $\beta$  (A $\beta$ ) peptide. *J Cell Biol* 171, 87-98, 2005

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28. Massey, A.C.; Kaushik, S.; Sovak, G.; Kiffin, R.; **Cuervo, A.M.\*** Intracellular consequences of the selective blockage of chaperone-mediated autophagy. *Proc. Nat. Acad. Sci. (Track II)* 103, 5805-5810, 2006
  - *F1000 Recommended: Daniel Klionsky: Faculty of 1000 Biology, 11 April 2006*
29. Cao, Y; Espinola, J.A.; Fossale, E.; Massey, A.C.; **Cuervo, A.M.**; MacDonald, M.E.; Cotman S.L. Autophagy is disrupted in a knock-in mouse model of juvenile neuronal ceroid lipofuscinosis *J. Biol. Chem.* 281, 20483-93, 2006
30. Kaushik, S.; Massey, A.C.; Kiffin, R., **Cuervo, A.M.\***. Role of lysosomal lipid microdomains in the regulation of chaperone-mediated autophagy. *EMBO J.* 25, 3921-33, 2006
31. Kiffin, R.; Kaushik, S.; Zeng, M.; Bandyopadhyay, U.; Zhang, C.; Massey, A.; Martinez-Vicente, M.; **Cuervo, AM\***. Altered dynamics of the lysosomal receptor for chaperone-mediated autophagy in aging. *J. Cell Sci.* 120, 782-91, 2007
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  - *Paper of the week*
33. Martinez-Vicente, M.; Talloczy, Z.; Hodara R, Fredenburg R, Dauer W, Przedborski S, Ischiropoulos H, Lansbury PT, Sulzer D, **Cuervo AM\***. Effect of different Postranslational Modifications in the Degradation of  $\alpha$ -Synuclein via Chaperone-mediated Autophagy *J. Clinical Invest.* 118, 777-788, 2008
  - *Faculty 1000 Biology Recommended: Stanley Appel*
  - *Faculty 1000 Medicine: Albert LaSpada*
  - *Featured in communication media: Reuters, Science Daily, Medicinenet, NINDS news*
34. Massey, A.C.; Follenzi, A; **Cuervo, A.M.\***. Effect of chaperone-mediated autophagy blockage on intracellular protein handling. *Autophagy* 4, 442-56, 2008
35. Sparrow, J.R.; Kim, S.R.; Cuervo, A.M.; Bandyopadhyay, U. A2E, a pigment of RPE lipofuscin, is generated from the precursors, A2PE by a lysosomal enzyme activity. *Ad. Exp. Med. Biol.* 613:393-8, 2008
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38. Bandyopadhyay, U., Vartikovskiy, L.; **Cuervo, AM\***. Dynamic organization of the receptor for chaperone-mediated autophagy at the lysosomal membrane. *Mol Cell Biol* 28: 5747-63, 2008
39. Zhang, C., **Cuervo, AM\***. Restoration of chaperone-mediated autophagy in aging improves cellular maintenance and organ function. *Nat. Med.* 14: 959-65, 2008
  - *Featured in News and Views (Nat. Med)*
  - *Featured in communication media: BBC, ABC, Sciencedaily, ScienceCentral, Discover Magazine, Washington Post, international press (UK, Germany, Spain, Italy, etc.)*
  - *Faculty 1000 Biology Recommended: Jun Li*

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36. Orenstein S; **Cuervo AM\***. Chaperone-mediated autophagy: molecular mechanisms and physiological relevance. Sem. Cell Develop. Epub ahead of print.
37. Koga H; Kaushik S; **Cuervo AM\*** Protein homeostasis and aging: The importance of exquisite quality control. Agein. Res. Rev. Epub ahead of print
38. Wong E, **Cuervo AM\*** Autophagy gone awry in neurodegenerative diseases. Nat. Neurosci. 13: 805-11, 2010
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## B. Books, Book Chapters, Editorials and Commentaries

### Books/Books chapters:

1. **Cuervo, A.M.** Degradacion selectiva de proteinas citosolicas en lisosomas de higado de rata. Tesis Doctoral. Universitat de Valencia. ISBN: 84-370-1801-3. E.T.D. S.A. Barcelona. 1994
2. Knecht, E.; **Cuervo, A.M.**; Palmer, A.; Rivett, A.J.; Terlecky, S.R.; Dice, J.F. A lysosomal pathway for the selective degradation of cytosolic proteins in rat liver. In: *Cellular and Molecular Control of Protein Metabolism* (Attaix, D., Cynober, L., Beaufriere, B., eds.) HNRC, Clemond-Ferrand, pp 1-10, 1994

3. Knecht, E.; **Cuervo, A.M.**; Dice J.F. A lysosomal pathway for the selective degradation of cytosolic proteins in rat liver. In: *Proteolysis in Cell Functions* (Hopsu-Havu, V.K., Harvinen, M., Kirschke, H., eds.) IOS Press, Amsterdam, pp 402-410, 1998
4. **Cuervo, A.M.**; Hayes, S.A.; Dice, J.F. Molecular chaperones and intracellular protein degradation with emphasis on a selective lysosomal pathway of proteolysis. In: *Molecular Chaperones in the Life Cycle of Proteins* (Fink, A.L. and Goto, Y. eds) Marcel Dekker, Inc. New York, pp 491-510, 1998
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7. **Cuervo, A.M.\***. Proteolysis and protein turnover. *Encyclopedia of Aging*, R. Schulz; L. Noelker; K Rockwood; Richard Sprott (eds.). 4<sup>th</sup> edition. Springer Publishing Company, New York, 2005
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9. Kaushik S, **Cuervo AM\***. Chaperone-mediated autophagy. In: *Methods Mol Biol, vol. 445: Autophagosome and Phagosome*. (Deretic, V, Ed.), Humana Press, 2007.
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12. Kon, M.; **Cuervo, A.M.\***. Autophagy: an alternative degradation mechanism for misfolded proteins. In: *Protein Misfolding Diseases: Current and Emerging Principles and Therapies*, (Ramirez-Alvarado, M. Kelly J.W. and Dobson C.M, eds), John Wiley and Sons, 2010
13. Kaushik S. **Cuervo, A.M.\***. Autophagy and the lysosomal system, in the pathophysiology of the liver. In: *The liver. Biology and Pathobiology* (Arias, IM, Boyer, JL, Fausto, N, Chisari, FV, Schanter, D, eds.), Lippincott Williams & Wilkins; 5th edition, 2009
14. Orenstein, S.; Cuervo, A.M.\* Changes in lysosomes and their autophagic function in aging. In: *The Comparative Biology of Aging*. (Wolf, N, ed), 2010
15. Koga, H, **Cuervo AM** Autophagy: the liaison between the lysosomal system and cell death. In: *Apoptosis Physiology and Pathology*. J.C. Reed and D.R. Green (eds) Cambridge University Press, chapter 7, 2011
16. Kaushik S. **Cuervo, A.M.\***. Selective autophagy in cellular quality control. In: *Research and Perspectives in Alzheimer's Disease* (Morimoto, R. ed.), Springer-Verlag Berlin Heidelberg, 2013

### Commentaries and Editorials:

1. **Cuervo, A.M.\***. Autophagy and aging: When "all-you-can-eat" is yourself. *Sci. SAGE KE* (36), pc

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\* Corresponding author

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2. de Grey, A.; Alvarez, P; Brady, R.; **Cuervo, A.M.**; Jerome, J.; McCarty, P.; Nixon, R.; Rittmann, B.; Sparrow, J. Medical bioremediation: prospects for the application of microbial catabolic diversity to several major age-related diseases. *Ageing Research Reviews* 4:315-38.
3. Eskeline E.L.; **Cuervo, A.M.**; Taylor, M.R.G.; Nishino, I.; Blum, J.S.; Dice, J.F.; Sandoval, I.V.; Lippincott-Schwartz, J.; August, J.T.; Saftig, P. Unifying nomenclature for the isoforms of the lysosomal membrane protein LAMP-2. *Traffic* 6: 1058-61, 2005
4. **Cuervo, A.M\***. Autophagy in neurons: it is not all about food. *Trends Mol Med* 12: 461-4, 2006
5. Kitsis RN, Peng CF, Cuervo AM. Eat your heart out. *Nat Med*. 13, 539-41, 2007 (News and Views).
6. Klionsky DJ, **Cuervo AM**, Dunn WA Jr, Levine B, van der Klei I, Seglen PO. How shall I eat thee? *Autophagy*. 3:413-6, 2007
7. Klionsky et al. Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. *Autophagy*. 4:151-75, 2008
8. Antebi A, **Cuervo AM**, Miller R, Sedivy, J. Aging Cell manuscripts on the road to PubMed Central: shifting from manual to automatic transmission. *Ageing Cell* [Epub ahead of print], 2008
9. **Cuervo AM\***. Calorie restriction and aging: the ultimate “cleansing diet”. *J. Gerontol A Biol Sci Med Sci* 63:547-9, 2008
10. Morimoto RI, **Cuervo AM\***. Protein Homeostasis and aging: taking care of proteins from cradle to grave. *J. Gerontol A Biol Sci Med Sci* 64:167-70,2009
11. Rubinsztein, D.D.; **Cuervo AM**; Ravikumar, B; Sarkar, S; Korlchuk, V.; Kaushik, S.; Klionsky, D.J. In search of an “autophagometer”. *Autophagy* 5: 585-9, 2009
12. Klionsky DJ, Codogno P, **Cuervo AM**, Deretic V, Elazar Z, Fueyo-Margareto J, Gewirtz DA, Kroemer G, Levine B, Mizushima N, Rubinsztein DC, Thumm M, Tooze SA. A comprehensive glossary of autophagy-related molecules and processes. *Autophagy* 6: Epub ahead of print. 2010
13. Koga, H; Kaushik S, **Cuervo, AM**. Inhibitory effect of intracellular lipid load on macroautophagy. *Autophagy* 6: 825-7, 2010
14. **Cuervo, AM**. The plasma membrane brings autophagosomes to life. *Nat. Cell. Biol.* 12: 735-737, 2010 (News and Views)
15. **Cuervo, AM**. Autophagy’s top chef. *Science* 332: 1392-3, 2011 (Perspective)
16. Klionsky DJ, Baehrecke EH, Brumell JH, Chu CT, Codogno P, **Cuervo AM**, Debnathc J, Deretic V, Elazar Z, Eskelinen EL, Finkbeiner S, Fueyo-Margareto J, Gewirtz DA, Jaattela M, Kroemer G, Levine B, Melia TJ, Mizushima N, Rubinsztein DC, Simonsen A, Thorburn A, Thumm M, Tooze SA. A comprehensive glossary of autophagy-related molecules and processes(2<sup>nd</sup> edition). *Autophagy* 7: 1273-94, 2011
17. Rodriguez-Navarro JA, **Cuervo AM**. Dietary lipids and aging compromise chaperone-mediated autophagy by similar mechanisms. *Autophagy* 8, 2012
18. Kennedy, B.K., Berger, S.L., Brunet, A., Campisi, J., **Cuervo, A.M.**, Epel, E.S., Franceschi, C., Lithgow, G.J., Morimoto, R.I., Pessin, J.E., Rando, T.A., Richardson, A., Schadt, E.E., Wyss-Coray, T., and Sierra, F. Geroscience: linking aging to chronic disease. *Cell* 159: 709-713, 2014
19. Rui YN, Xu Z, Patel B, Cuervo AM, Zhang S. HTT/Huntingtin in selective autophagy and Huntington disease: A foe or a friend within? *Autophagy*. 11:858-60, 2015
20. Cuervo AM, Zhang S. Selective autophagy and Huntingtin: learning from disease. *Cell Cycle*.



14:1617-8, 2015.

21. Moller DE, Cuervo AM, Gordon J, Froguel P, Mangelsdorf DJ. Reflections on the field of metabolism. *Cell Metab.* 21:505-6, 2015
22. Barzilai N, Cuervo AM, Austad S. Aging as a biological target for prevention and therapy. *JAMA* 320(13):1321-1322, 2018

### C. Abstracts (selected):

- 11th International Conference on Proteolysis and Protein Turnover. Turku (Finland), 1996.
- 1997 Annual Meeting of the American Society of Hematology. California (USA), 1997.
- 1999 International Proteolysis Society General Meeting. Mackinac Island (USA), 1999.
- 52nd Annual Meeting of the Gerontological Society of America. San Francisco (USA), 1999
- 2000 American Aging Association Meeting. Boston (USA), 2000
- Conferences Philippe Laudat. Lysosomal transport in health and disease. Aix-les-Bains (FRN), 2000
- 14<sup>th</sup> Annual Grantee Conference of the AFAR, Madison (USA), 2001
- Huntington's Disease Society of America Coalition for the Cure Meeting, Philadelphia (USA), 2001
- 41<sup>st</sup> Annual Meeting of the American Society for Cell Biology, Washington (USA), 2001
- Huntington's Disease Society of America Coalition for the Cure Meeting, Chicago (USA), 2002
- 55<sup>th</sup> Annual Meeting of the Gerontological Society of America, Boston (USA), 2002
- 42<sup>nd</sup> Annual Meeting of the American Society for Cell Biology, San Francisco (USA), 2002
- 33<sup>rd</sup> Annual Meeting of the Society for Neuroscience, New Orleans (USA), 2003
- 43<sup>rd</sup> Annual Meeting of the American Society for Cell Biology, San Francisco (USA), 2003 (2 absts)
- Experimental Biology Meeting, Washington (USA), 2004
- 34<sup>rd</sup> Annual Meeting of the Society for Neuroscience, San Diego (USA), 2004 (2 abstracts)
- Huntington's Disease Society of America Coalition for the Cure Meeting, Cincinnati (USA), 2004
- 44<sup>rd</sup> Annual Meeting of the American Society for Cell Biology, Washington (USA), 2004 (2 abstrs)
- 35<sup>rd</sup> Annual Meeting of the Society for Neuroscience, San Diego (USA), 2005 (2 abstracts)
- GRC of Biology of Aging, Ventura (USA), 2005 (1 abstr)
- 2006 AGE Annual Meeting, Boston (USA), 2006 (2 abstr)
- 45<sup>rd</sup> Annual Meeting of the American Society for Cell Biology, San Diego (USA), 2006
- GRC of Autophagy, Ventura (USA), 2008 (2 abstr)
- Hereditary Disease Foundation, Boston, 2008 (1 abstr)
- 5<sup>th</sup> International Symposium on Autophagy, Otsu, Japan, September 2009 (1 abstr)
- 8<sup>th</sup> EMBO/Annaberg Conference, Dennis Shields Memorial, Annaberg, January, 2009 (1 abstr)
- 11<sup>th</sup> Servier-IGIS Symposium, St. Jean Cap Ferrat, France, March 2010 (1 abstr)
- 2010 GRC on Autophagy in Stress, Disease and Aging, Il Ciocco, April 2010 (2 abstr)
- 2011 Keystone Symposium in Autophagy, Whistler, March 2011 (4 abstr)
- 2012 GRC on Autophagy in Stress, Disease and Aging, Ventura, March 2012 (3 abstr)

- 2013 GRC on Biology of Aging, Il Ciocco, August 2013 (2 abstr)
- Keystone Symposium on Autophagy: Fundamentals to Disease, Austin, Texas, May 2014 (2 abstr)
- Keystone Symposium: Systems Biology Lipid Metabolism, Breckenridge, CO, Feb 2015 (1 abstr)
- EMBL Symposium: Mechanisms of Neurodegeneration, Heidelberg, Germany, May 2015 (1 abstr)
- Keystone Symposium on Autophagy, Keystone, CO, June 2015 Keynote (1 abstr)
- GRC: Parkinson's disease, Colby-Sawyer College, New Hampshire, June 2015 (2 abstr)
- GRC on Autophagy, Ventura, California, March 2016 (2 abstr)
- 7<sup>th</sup> Proteasome and Autophagy Workshop/COST meeting, Clermont Ferrand, April 2016 (1 abstr)

#### **D. Patents**

U.S. Patent N. 14/566,762 Retinoic acid receptor antagonists as chaperone-mediated autophagy modulators and use thereof

## TEACHING AND RELATED ACTIVITIES

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### A. Formal teaching

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#### (1) Lectures in Courses

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- 1985-1986 Teaching Assistant, Biochemistry, University of Valencia School of Medicine, Spain. "Biochemistry of Proteins".  
Duration: 15 hours/year. Students: 25
- 1986-1990 Teaching Assistant, Physiology I. University of Valencia School of Medicine, Spain. "Study of peripheral neuromuscular function"  
Duration: 40 hours/year. Students: 25
- 1993-1994 Teaching Assistant, IIC/Graduate School, University of Valencia, Spain. "Techniques in Electronmicroscopy".  
Duration: 20 hours/year. Students: 10
- 1996-1997 Lecturer, Physiology 241, Tufts University School of Medicine, Boston, MA. "Structure and Function of Biological Membranes".  
Duration: 2 hours/year. Students: 15
- 2000-2001 Lecturer, Physiology 293G, Tufts University Sackler School of Graduate Biomedical Sciences, Boston, MA "Pathobiology for Graduate Students".  
Duration: 2 hours/year. Students: 15

#### **Einstein**

- 2002- Lecturer, Albert Einstein College of Medicine, Bronx, NY "Histology and Cell Structure".  
Duration: 1.5 hour/year. Students: 200
- 2002- Lecturer, Albert Einstein College of Medicine, Bronx, NY "Molecular Cell Biology"  
Duration: 3 hours/year. Students: 50 (\* Student Evaluation Enclosed pages 8-14)
- 2004-2007 Lecturer, Albert Einstein College of Medicine, Bronx, NY "Critical Readings for Research".  
Duration: 3 hours/year. Students: 20
- 2005- Lecturer, Albert Einstein College of Medicine, Bronx, NY "Mechanisms of Disease (MSTP).  
Duration: 3 hours/year. Students: 15
- 2009- Lecturer/Course Director, Albert Einstein College of Medicine, Bronx, NY "Biology of Aging"  
Duration: 9 hours/year. Students: 18

#### **Outside Einstein**

- 2005 Biology of Aging, Graduate Course, University of Colorado at Bolder.  
Duration: 2 hours. Students: 30
- 2007 Graduate Cell Biology, Wayne State University, Detroit.  
Duration: 2 hours. Students: 25

- 2008 Current Topics Course (Graduate), Boston University, Boston.  
Duration: 2 hours. Students: 15
- 2008 Research Lecture Undergraduate Biology, Queens College. Queens, NY.  
Duration: 2 hours. Students: 45
- 2009 Biology of Proteolysis (Graduate), Coimbra, Portugal.  
Duration: 8 hours. Students: 40
- 2010 SFRR-E Free Radicals Summer School, Spetses, Greece  
Duration: 5 days. Students: 65
- 2010 Summer School on Metabolism and Endocrinology, Southern Funen, Denmark  
Duration: 4 hours. Students: 23
- 2010 Master Program on Neurosciences, Bilbao, Spain  
Duration: 4 hours. Students: 22
- 2011 Special Lecture, Graduate Program, University of Brescia, Italy, November 2011  
Duration: 2 hours. Students: 45
- 2011 Cherkin Award Lecture, UCLA, Los Angeles, CA September 2011  
Duration: 1 hour. Students: 250
- 2012 Chalk-talk RNA Neuro-Therapeutics Institute, U. Mass, Worcester, MA, March 2012  
Duration: 2 hours. Participants: 15
- 2012 Neuroscience School of Advanced Studies, Italy, April 2012  
Duration: 5 days. Students: 40
- 2013 Summer Institute on Aging Research, NIA, Bethesda, July 2013  
Duration: 2 days. Students: 25
- 2013 Neuroscience School of Advanced Studies, Italy, October 2013 (Course director)  
Duration: 5 days. Students: 40
- 2013 Graduate course in Cell biology and Immunology, Institute for Research in Biomedicine, Bellinzona, Switzerland, December 2013  
Duration: 2 hours. Students: 30
- 2014 The Butler-Williams Scholars Program on Biology of Aging, NIH, Bethesda, July 2014  
Duration: 1 hour. Students: 30
- 2014 Curso de Verano de la UPV/EHU en San Sebastian, XXVI Cursos Europeos, June 2014  
Duration: 1 hour. Participants: 50
- 2014 SFRR Summer School 2014 "Biochemical basis of healthy ageing", Spetses, Greece, September 2014  
Duration: 4 hours. Participants: 65
- 2014 Woods Hole Biology of Aging Course, Woods Hole, MA, August 2014  
Duration: 3 hours. Participants: 20
- 2014 FEBS advance lecture course: 360degrees Lysosomes, Izmir, Turkey, October, 2014  
Duration: 1 hour. Participants: 150
- 2016 Neuroscience School of Advanced Studies, Italy, May 2016  
Duration: 1 day. Students: 20
- 2016 RAND Summer Institute Mini -medical School for Social Scientists (NIA), St. Barbara

Duration: 2 hour. Participants: 75  
 2016 Universidad Internacional Melendez Pelayo, Santander, Spain, August  
 Duration: 2hour. Participants: 45

## (2) Teaching Awards

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2006 LaDonne Schulman Teaching Award, AECOM  
 2013 LaDonne Schulman Teaching Award, AECOM

## (3) Development of Curricular Courses

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Co-Director with Dr. Nir Barzilai of a newly created Graduate Course on "**Biology of Aging**".  
 Director of the course on "**Autophagy and Neuroprotection**", Italy

## (4) Invited Educational Lectures (conferring CME credits)

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**Note:** Only talks conferring CME credits are included here. Please, for the full list of invited presentation (including research seminars) kindly refer to the Research Section

### Einstein

2008 Grand Rounds Nephrology, Dept. Medicine (Kidney), September  
 2010 Grand Rounds Hepathology, Dept. Medicine (Liver), June  
 2011 Diabetes Center Seminar Series, Medicine, March  
 2012 *Grand Rounds Oncology, January*  
 2013 *Grand Rounds Hematology, Dept. Pathology, Montefiore-Einstein, March*  
 2013 *Grand Rounds Neurology, Dept. Neurology, Montefiore-Einstein, March*  
 2015 Grand Rounds Hematology, Montefiore-Einstein, June

### Outside Einstein

2004 5<sup>th</sup> Neurobiology in Aging Conference, San Diego, October  
 2005 65<sup>th</sup> Annual meeting of the American Diabetes Association, San Diego, June  
 2006 4<sup>th</sup> Annual Nathan W. Shock Symposium, Towson, Maryland, September  
 2006 Symposium "Disease modifying pathways in neurodegeneration", Society for Neuroscience Annual Meeting, Atlanta, October  
 2006 Grand Rounds Neurology, NJ School of Medicine, November  
 2006 Annual Meeting American Association of Nephrology, San Diego, November  
 2007 Parkinson's Disease Foundation, 50<sup>th</sup> Anniversary Educational Symposium, NY, October  
 2007 Grand Rounds Neurology University of Pennsylvania, Philadelphia, November  
 2008 BioSymposia: Sporadic Neurodegeneration, Boston, July  
 2008 NIH Director's Wednesday Lecture, Bethesda, October  
 2008 ASHG Annual meeting "Autophagy in homeostasis and disease", Philadelphia, November  
 2009 Experimental Biology Annual Meeting, Metabolism and Disease, New Orleans, April

- 2009 AASLD Annual Meeting: Symposium on Autophagy, Boston, November
- 2010 62<sup>nd</sup> Gerontological Society of American Annual Meeting, Atlanta, November
- 2010 University of Michigan, Geriatrics Research Symposium, Ann Arbor, MI, April
- 2010 Biology of Human Aging Brown Symposium, Providence, RI, April
- 2010 MDS 14<sup>th</sup> International Congress on Parkinson's Disease, Buenos Aires, June
- 2010 Grand Rounds Neurology, New York Presbyterian Hospital-Weill Cornell, NY, Jan
- 2011 State-of-the-Art lecture at Digestive Disease Week, Chicago, May
- 2011 American Diabetes Association Annual Meeting, San Diego, CA, June
- 2011 Cherkin Award Lecture, UCLA, Los Angeles, CA September
- 2011 48<sup>th</sup> Annual Meeting European Association for the Study of Diabetes, Berlin, Oct
- 2012 Miami Winter Symposium, *Feodor Lynen Lecturer*, Miami, February
- 2013 Congreso de la Sociedad de Geriatria Espanola, Valencia, Spain, June 2013
- 2014 Alzheimer's Association International Conference, Boston, MA, July 2013
- 2014 Curso de verano U. Pais Vasco, Envejecimiento Saludable, San Sebastian, June 2014
- 2015 20<sup>th</sup> Mayo-Karolinska Annual Meeting, David Murdock Lecture, Rochester, Sept 2014
- 2014 ASBMR conference, Gerry Aurbach keynote lecture, Houston, TX, September Keynote
- 2015 Symposium on Proteostasis. Washington University, St. Louis, MO, February
- 2015 Department of Medicine, National Jewish Health, Denver CO, March 2015
- 2015 Department of Ophthalmology and Pathology, Duke University, Durham, NC, March 2015
- 2015 MGH Cell Biology Seminar Series, Boston, MA, October 2015
- 2016 Grand Rounds Medicine, University of Pittsburg, Pittsburg, PA, March 2016
- 2016 Department of Pathology (Grand Rounds) University of Maastrich, Netherlands, May 2016
- 2017 Grand Rounds Neurology, Montefiori Medical Center, November 2017

## **B. Albert Einstein College of Medicine Conferences and Seminars:**

- 2000 Marion Bessin Liver Research Center Seminar Series, November
- 2003 SURP program at Einstein. Talk for summer students, July
- 2003 MSTP program at Einstein. Talk for M.D. Ph.D. students, September
- 2003 EEP/STEP program at Einstein. Talk for secondary school students, October
- 2003 Faculty Seminar Series, September
- 2004 Dept. Development and Molecular Biology, September
- 2006 Cancer Membrane Interest Group, September
- 2007 SURP program at Einstein. Talk for summer students, July
- 2007 Dept. Anatomy, Faculty Lunch Talk, December
- 2008 Cancer Membrane Interest Group, February
- 2008 Cell death and Autophagy Interest group, Workshop on "Methods in Autophagy", May
- 2008 Dept. Development and Molecular Biology, June
- 2008 SURP program at Einstein. Talk for summer students, August
- 2008 Faculty Seminar Series, October
- 2009 SURP program at Einstein. Talk for summer students, August

2010	SURP program at Einstein. Talk for summer students, July
2012	SURP program at Einstein. Talk for summer students, July
2012	Faculty Seminar Series, June
2013	SURP program at Einstein. Talk for summer students, July
2015	Faculty Seminar Series, March
2016	SURP program at Einstein. Talk for summer students, July
2017	SURP program at Einstein. Talk for summer students, July

### C. Journal Clubs

2000-2001	Journal Club for Physiology Graduate Students, Tufts University Sackler School of Graduate Biomedical Sciences, Boston, MA
2001-	Liver Research Center Pathobiology Journal Club, Albert Einstein College Medicine
2001-	Membrane Biology Journal Club, Albert Einstein College of Medicine

### D. Seminar Series

- Co-organizer of the Liver Research Center Seminar Series, Albert Einstein CM (2002/2003)
- Organizer of the Liver Research Center Seminar Series, Albert Einstein CM (2003- )

### E. Training

2003-	Trainer in the Training Program in Aging, Albert Einstein College of Medicine
2004-	Trainer in the Training Program Cellular Biology, Molecular Biology and Genetics, Albert Einstein College of Medicine
2006-	Trainer in the Training Program in Liver Pathology, Albert Einstein College of Medicine
2010-	Trainer in the Training Program in Developmental and Translational Nephrology, Einstein
2013-	Program Faculty of the Paul Clabresi Career Development Program at Einstein

### a) Graduate Students

#### Thesis advisor:

- Mei Han (co-advisor for Master Thesis) Department of Physiology, Tufts University
- Ashish Massey (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Cong Zhang (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Urmi Bandyopadhyay (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Roberta Kiffin (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Susmita Kaushik (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Maria Kon (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Samantha Orenstein (Dept. of Anatomy and Structural Biology, Albert Einstein College of Medicine)
- Sunandini Sridhar (Dept. of Developmental and Molecular Biology, Einstein)

- Jaime Anguiano ((Dept. of Developmental and Molecular Biology, Einstein) (co-mentor)
- Jaime Schneider (Dept. of Developmental and Molecular Biology, Einstein)
- Caroline Park (Dept of Genetics, Einstein) (co-mentor)
- Benjamin Caballero (Dept. of Developmental and Molecular Biology, Einstein)
- Yves Robert Juste (Dept. of Developmental and Molecular Biology, Einstein)
- Gregory Krause (Dept. of Developmental and Molecular Biology, Einstein)

#### Advisory committee:

- Yu Liu (Dr. A. Chang)
- Aashir Awan (Dr. P. Satir)
- Eustratios Bananis (Dr. A. Wolkoff)
- Li Liu (Dr. B. Satir)
- Kim Macklin (Dr. D. Wilson)
- Pankajavalli Ramakrishnan (Dr. P. Davis)
- Victoria Paroder (Dr. N. Carrasco)
- Marisol Espinoza (Dr. P. Davis)
- Allyson Bunbury (Dr. L. Santambrogio)
- Sha-ron Pierre (Dr. Maria Pereira, Hunter Col.)
- Debbie Russel (Dr. E.L. Snap)
- Daniela Hernandez (Dr. D. Sulzer, Columbia U)
- Carla Portulano (Dr. N. Carrasco)
- Sunandini Sridhar (Dr. D. Shields)
- Rory Flinn (Dr. J. Backer)
- Jo Choi (Dr. A. Wolkoff)
- Andrew Rybin (Dr. R. Kitsis)
- Catherine Liu (Dr. M. Keilian)
- Matthew Micsenyi (Dr. S. Walkley)
- Walter Lai (Dr. E.L. Snap)
- Radames Cordero (Dr. M. Schmidt)
- Tony Wonga (Dr. K. Chandran)
- Diana Althonvarangkul (Dr. R. Singh)
- Charles Guerra (Dr. P. Satir)
- Sangeeta Nath (Dr. A. Wolkoff)
- Nuppur Kittur (Dr. T. Meir)
- Rebecca Li (Dr. M. Horwitz)
- Sunyata Smith (Dr. D. Wilson)
- Xiaodi Yao (Dr. M. Kilein)
- Souvik Sarkar (Dr. A. Wolkoff)
- Zhao Wang (Dr. P. Scherrer)
- Maya Byfield (Dr. J. Backer)
- Richard Weldon (Dr. M. Charron)
- Vanesa Hubbard (Dr. F. Macian)
- Yaw Shin Ooi (Dr. M. Kielian)
- Yichen Wang (Dr. J. Pessin)
- Aleksander Treyer (Dr. A. Muesh)
- Kristina Ames (Dr. A. Melendez)
- Ignacio Guerrero (Dr. F. Macian)
- Phillip Campbell (Dr. F. Marlow)
- Melinda Ng (Dr. K. Chandran)
- Emily Bird (Dr. M. Kielian)
- Yuxi Li (Dr. A. Ferrante, Columbia U)
- Cara Reynolds (Dr. F. Macian)
- Samuel Dowling (Dr. F. Macian)

#### Qualifying defense:

- Jelena S. Arnold (Dr. B. Morrow)
- Eustratios Bananis (Dr. A. Wolkoff)
- Corina Samiento (Dr. J. Condeelis)
- Nuppur Kittur (Dr. T. Meier)
- Li Liu (Dr. B. Satir)
- Sangeeta Nath (Dr. A. Wolkoff)
- Sujayita Roy (Dr. T. Meier)
- Nicole McKinnon (Dr. M. Akabas)
- Michael Wu (Dr. D. Cohen)
- Yu Liu (Dr. A. Chang)
- Ghassan Mouneimne (Dr. J. Condeelis)
- Christian Faulner (Dr. P. Mundel)
- Jose Polo (Dr. A. Melnik)
- Aldrin Molero (Dr. M. Mehler)
- Wassim Abou Kheir (Dr. D. Cox)
- Dave Heslin (Dr. J. Lenz)



- Dmitriy Kedrin (Dr. J. Segal)
- Glicella Salazar (Dr. N. Carrasco)
- Sunandini Sridhar (Dr. D. Shields)
- Lenora Nusblat (Dr. D. Cox)
- Dawn Schranz (Dr. A. Muench)
- Brandon Miholland (Dr. Y. Suh)
- Tatjana Trcek (Dr. R. Singer)
- Poh Choo How (Dr. D. Shields)
- Monika Paroder (Dr. N. Carrasco)
- Kendra Blot (Dr. A. Bergman)
- Yichen Wang (Dr. J. Pessin)
- Kristina Ames (Dr. A. Melendez)

### Thesis defense:

#### **Einstein**

- Yunfeng Yang (Dr. T. Meier)
- Eustratios Bananis (Dr. A. Wolkoff)
- Victoria Parode (Dr. N. Carrasco)
- Maya Byfield (Dr. J. Backer)
- Nuppur Kitur (Dr. T. Meier)
- Victorya Paroder (Dr. N. Carrasco)
- Li Liu (Dr. B. Satir)
- Walter Lai (Dr. E.L. Snap)
- Mariam Lynn Nix (Dr. D. Wilson)
- Aashir Awan (Dr. P. Satir)
- David Fereiro (Dr. J. Chan)
- Charles Guerra (Dr. P. Satir)
- Souvik Sarkar (Dr. A. Wolkoff)
- Sangeeta Nath (Dr. A. Wolkoff)
- Matthew Micsenyi (Dr. S. Walkley)
- Yichen Wang (Dr. J. Pessin)

#### **Outside Einstein**

- Claudette Davis (Dr. K. Hubbard) City College, CUNY, NY
- Sha-ron Pierre (Dr. Maria Pereira) Hunter College, NY
- Delibor Mijaljica (Dr. Rodnewy J. Devenish) Monash University, Victoria, Australia
- Daniela Hernandez (Dr. David Sulzer) Columbia University, NY
- Sooyeon Lee (Dr. Ralph Nixon) New York University, NY
- Pauline Isakson (Dr. Anne Simonsen), U. Olso, Norway
- Daniela Hernandez (Dr. David Sulzer) Columbia University, NY
- Andrew Ferree (Dr. Benjamin Wolozin), Boston University, MA
- Kristina Ames (Dr. A. Melendez), Queens College, NY

#### **b) Postdoctoral Fellows**

- Guy Sovak (Ph. D. from Technion Israel Institute of Technology, Haifa, Israel) (former)
- Marta Martinez-Vicente (Ph. D. from the Universitat de Valencia, Valencia, Spain) (former)
- Annamaria Ventuti (Ph.D. from the University of Pisa, Pisa, Italy) (former)
- Esther Wong (Ph.D. from the Univeristy of Singapore, Singapore) (former)
- Hiroshi Koga (Ph.D. from Tokyo University, Tokyo, Japan) (former)
- Eloy Bejarano (Ph. D. from Universidad de Sevilla, Sevilla, Spain) (former)
- Esperanza Arias (Ph.D. from Universidad Autonoma de Madrid, Spain) – Fullbright Fellow

- Susmita Kaushik (Ph.D. from Albert Einstein College of Medicine, USA)
- Jose Antonio Rodriguez Navarro (PhD from Universidad Complutense de Madrid, Spain) (former)
- Olatz Pampliega (PhD from Universidad de Bilbao, Spain) (former)
- Inmaculada Tasset (PhD from University of Cordoba, Spain) – Fullbright Fellow
- Barbara Stiller (PhD from University of Cologne, Germany) – ADDA Fellow (former)
- Julio Madrigal (PhD from Universidad Autonoma de Madrid, Spain) – ADA Fellow
- Luisa Coletto (PhD from University of Padova, Italy) – EMBO fellow
- Joan Villaroya (PhD from University of Barcelona, Spain) – Sara Borrell Fellow (former)
- Luciana Gomes (PhD from University of Sao Paulo, Brasil) (former)
- Nadia Storm (PhD from University of Cologne, Germany) – EMBO Fellow
- Philipp Krischner (PhD from University of Bonn, Germany) – ADF Fellow
- Shuxian Dong (PhD from Beijing University, China)
- Erika Garay (PhD from University of Mexico, Mexico) – Pew Fellow
- Kumsal Tekirdag (PhD from Istanbul University, Turkey)
- Aurora Scrivo (PhD from U. Montpellier, France)
- Mathieu Bourdenx (PhD from U. Bordeaux, France)
- Carmen Aguirre (PhD from Barts Cancer Institute, SMD, QMUL, London, UK)
- Sebastien Causse (PhD from Ecole Normale Superieure, Paris, France)
- Takeshi Yamamoto (PhD/Residency from Osaka Univerisity School of Medicine, JPN)

### c) **Clinical Fellows**

- Alejandro Quiroga (MD from Albert Einstein College of Medicine, Bronx, NY) – Pediatric Nephrology fellow (former)
- Lori Spoozak (MD from Columbia University, NY, NY) – Oncology gynecology fellow (former)
- Alex Zendel (MD from Albert Einstein College of Medicine, Bronx, NY)- Hepatology fellow

### d) **Postbachelorate Students**

- Roberta Kiffin (Boston University) (2003-2005)

### d) **Summer students, rotating students**

- Rotating students:*
- Michail V. Shipitsin (Tufts Univ)
  - Grace Leung (Tufts Univ)
  - Patrick Finn (Tufts Univ)
  - Jorge Durand (GS, AECOM)
  - Tim Sonbuchner (GS, AECOM)
  - Yubao Wang (GS, AECOM)
  - Maria Kon (MSTP, AECOM)
  - Nhan Ngyen (Tufts Univ)
  - Natalia Ulyanova (Tufts Univ)
  - Nicholas Messiers (Tufts Univ)
  - Chris Christian (MSTP, AECOM)
  - Anna Kim (MSTP, AECOM)
  - Ines Peterson (GS, AECOM)
  - Yunxiang Liu (MSTP, AECOM)

- Matthew Micsenyi (GS, AECOM)
- Jaime Anguiano (GS, AECOM)
- Amanda Grieco (GS, AECOM)
- Jaime Schneider (MSTP, AECOM)
- Hillary Hilwoorth (MTSP, AECOM)
- Nelson Ramirez (GS, AECOM)
- Lisa Baker (GS, AECOM)
- Archana Tare (GS, AECOM)
- Sinan Knor (MTSP, AECOM)
- Mahrukh Syeda (GS, AECOM)
- MariaPaz Ramos (GS, AECOM)
- Samantha Orenstein (GS, AECOM)
- Robert Stanley (GS, AECOM)
- Caroline Park (MSTP, AECOM)
- Benjamin Caballero (GS, AECOM)
- Sara Nick (GS, AECOM)
- Lourdes Martinez (GS, AECOM)
- Todd Rubin (MSTP, AECOM)
- Yves Juste (GS, AECOM)
- Gibram Ramos (MSTP, AECOM)

**Master students:** • Missionara Amed (Fordham U, 2<sup>nd</sup> year MS BS)

**Undergraduated:** • Mellisa McConney (Tufts Undergraduate School)  
 • Dina Ohevshalom (Yeshiva University) SURP at AECOM  
 • Adanna Onyekwere (Lehman's College) Minority SURP at AECOM  
 • Daisy Medrano (Brooklyn College) Minority SURP at AECOM  
 • Jeniffer Kraut (Lehman's College) Minority SURP at AECOM  
 • Victoria Cipollone (Fordham University) Minority SURP at AECOM

**High School:** • Manish Patel (High School Senior Student)  
 • Akansha Massey (High School Senior Student)  
 • Diane Edwell (High School Senior Student)  
 • Ankit Shah (High School Senior Student)  
 • Fiorella Villar (High School Junior Student)  
 • Alexia Bobe (High School Junior Student)

**Visiting Scientist:** • Susmita Kaushik (M.S., PIMER, India)  
 • Cristina Tomas-Zampico (University of Oviedo, Spain)  
 • Maribel Sanchez (University of Valencia, Spain)  
 • Pol Gimenez (University of Barcelona, Spain)  
 • Inmaculada Esteban (University of Valencia, Spain)  
 • Jose Antonio Rodriguez (Hospital Ramon y Cajal)  
 • Natalia Rodriguez Muela (CSIC, Madrid, Spain)  
 • Nuria Martinez (CICbioGune, Bilbao, Spain)  
 • Daniela Arduino (University of Coimbra, Portugal)  
 • Joao Ferreira (University of Coimbra, Portugal)  
 • Maria Isabel Gonzalez (U. Pablo Olavide, Seville, Spain)

- Luisa Coletto (U. Pisa, Italy)
- Esther Rodriguez (U. Lleida, Spain)
- Raquel Gomez (CSIC, Madrid, Spain)
- Idil Ohron (U. Paris, France)
- Lucia Garcia (CSIC, Madrid, Spain)
- Ivan Alfaro (Fundacion ciencia y vida, Santiago, Chile)
- Enric Poch (CEU, Valencia, Spain)
- Olatz Arrizabalaga (Biogune, San Sebastian)
- Lorena Esteban (CSIC, Madrid Spain)
- Marta Pajares (U. Autonoma. Madrid)
- Mario Rodriguez Arribas (U. Caceres, Spain)
- Sofia Cabezudo (CBMSO, U Autonoma, Spain)
- Marta Flandes Canet (CNIC, Madrid, Spain)

#### **e) Minority-Oriented Teaching/Training Activities**

- 2003-2005 Mentor: Minority Post-baccalaureate NIH/NIA
- 2003 EEP/STEP program at Einstein. Talk for secondary school students, October 2003
- 2003 Mentor: Minority Summer Program at Einstein (June-August)
- 2004 Mentor: Minority Summer Program at Einstein (June- August)
- 2006 Featured in "LINKS: Minority Research & Training" NIH/NIA
- 2008 MARC program Invited Speaker, Queens College, Queens, NY
- 2011 Keystone Symposium in Neurodegeneration, Minority Lunch talk with the experts, Taos
- 2013 Faculty of the Summer Institute on Aging, NIA/NIH, Bethesda, MD
- 2013 National Advisory Council on Aging Minority Task Force
- 2013 Invited participant of the "Women In Biochemistry Discussion" at the Biochemical Society Annual Meeting, Bath, UK
- 2013 Keynote speaker of the "2013 Inspiring Women in Science" CUNY Women in Science Forum, NY, NY
- 2014/5 coChair Taks Force on Mi Health Disparities Research and Minority Researcher Review, National Institute on Aging
- 2014- Committee for The Feinstein Institute's Advancing Women in Science and Medicine

#### **f) General Public Education Activities**

- Crossroads Trading Cards Science of Aging Experts
- Talking Trash with Ana Maria Cuervo, [AFAR Newsletter](#)
- [New York Times interview](#): Self-Destructive Behaviour in Cells May Hold Key to a Longer Life by Carl Zimmer, Oct 2009

- The science network: Autophagy and Aging (video interview) Feb 2010 [clip](#)
- ABC Science *Scientist Stop the ageing process*
- Science Talk: Faulty Clean-up Process may be Key Event in Huntington's Disease, 2010 [clip](#)
- Never Say Die: A future Tense Event New America Foundation, Dec 2010
- The science network: Studying superagers, January 2011 [clip](#)
- EFE agency interview on "Aging of the organism", March 2011
- NPR Seattle Longevity, Radio Interview, April 2011
- How your cells take out the trash, [podcast](#), June 2011
- Webinar – Cell Press: Imaging the Sustainable Cell [Link](#)
- The Scientist: Waste-management consultant [Link](#)
- Autophagy and Intracellular Aggregates [Link](#)
- Scientific American: Could Trashing Junk Proteins Quash Alzheimer's, Parkinson's, ALS and Huntington's? [Link](#)
- HSTalks Aging and protein homeostasis [Link](#)
- Keystone Symposium Panel Discussion Chewing the Fat: Panel and Discussion about Autophagy and Future Directions of the Autophagy Field [Link](#)
- 2016 RAND Summer Institute [Link](#)
- Einstein Features: Autophagy Research [Link](#)
- 2016 Dr. Paul Janssen Award Symposium open to the public [Link](#)
- 92Y Dialogue on Slowing and Reversing Aging November 2016 [Link](#)
- New York Academy of Sciences: Autophagy and neurodegeneration [Link](#)
- Nature: [Link](#)
- Science Daily [Link](#)
- NYTimes: [Link](#)
- US News: [Link](#)
- Wall Street Journal [Link](#)
- Marie Claire [Link](#)
- Yeshiva University: Medical Ethics Society's Annual Conference (keynote), 2017
- Oon Chiew Seng Distinguished Visitor Program- Public Lecture, Singapore, April 2018
- Wikipedia: #1day#1women initiative: [Ana Maria Cuervo](#)

## ADMINISTRATIVE DUTIES AND COMMITTEES

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- 2001-2005: Admission committee for the Sue Golding Graduate Program  
(2001/02 as occasional replacement for Dr. Chang, 2002/03 full time)
  - Revision of International students applications and phone interviews (2001/03)
  - 2002- 2005: Recruitment committee . Include attendance to Scientific Fairs for College Students (Boston University (2002); Connecticut University (2003))
  - 2002-present: Certified Chemical Laboratory Supervisor NYC Fire Dept. at Einstein
  - 2003-present: Admission committee for the MSTP at Einstein
  - 2003-present: Non-human use radiation safety committee at Einstein
  - 2003-present: The Berta V. Scharrer Lecture Committee at Einstein
  - 2003-2010: Webmaster of the Liver Research Center Web page
  - 2005-2008: Promotion committee for Associate Professor Rank at Einstein
  - 2006-present: Steering committee for the Liver Research Center at Einstein
  - 2006-present: Belfer Institute Advisory Committee at Einstein
  - 2007-present: Awards Committee of the Albert Einstein College of Medicine
  - 2008: Search Committee Director Belfer Institute at Einstein
  - 2008-2012: Advisory Committee for Junior Faculty, Department of Developmental and Molecular Biology, AECOM
  - 2008-present: Web Page and Departmental shared computer and electronic services Committee, Department of Developmental and Molecular Biology, AECOM
  - 2008-present: Chair of the Academic Affairs Committee, Einstein
  - 2010-present: Executive committee Nathan Shock Center for Biology of Aging
  - 2009-present: Director of the Proteostasis of Aging Core, Einstein
  - 2010-2013: Promotion committee for Professor Rank at Einstein
  - 2011: Search Director siRNA facilities at Einstein (Chair)
  - 2012-2013: Search Committed for Chair of Neuroscience, Einstein
-

## GRANT SUPPORT

**Active**

- **R01/37 AG021904** Cuervo (PI) 04/01/03-03/31/18 \* Merit Award until 2023  
 NIH/NIA  
 Decreased Protein Degradation in Aging  
 The main goals of this project are: 1) To identify the reason for the decrease in the levels of the lysosomal receptor for chaperone-mediated autophagy with age; 2) To determine direct cellular consequences of the decline in chaperone-mediated autophagy with age; 3) To evaluate the effect of correcting the already identified age-related defect in chaperone-mediated autophagy  
Role: Principal Investigator
- **P01 AG031782** Cuervo (PI) 02/01/09-1/31/19  
 NIH/NIA  
 Functional Consequences of Impaired Autophagy in Aging  
 The goal of this program project is to investigate the role that age-related changes in autophagy play in the functional alterations and inefficient response to immunological challenges and to stress of old organisms. This Program Project groups the expertise of four investigators interested in immunosenescence, lipid metabolism and autophagy and the stress response.  
Role: PI Program Project and Leader project 1
- **R01 AG054108** Cuervo (PI) 07/01/16-06/30/21  
 NIN/NIA  
 Understanding Alzheimer's Disease in the Context of the Aging Brain  
Goal: This project investigates the role of chaperone-mediated autophagy (CMA) in brain aging and in the Alzheimer's disease risk. The main goals of this project are to: 1) determine the spatiotemporal sequence of CMA changes in the aging brain; 2) investigate if characteristics of the Alzheimer's disease brain are phenocopied by neuronal CMA blockage; 3) test if genetic or chemical enhancement of CMA in the aging brain increases its resistance to AD-relevant proteotoxicity and improves neuronal homeostasis and function.  
Role: Principal Investigator
- **U54 NS100717** Gan (PI) Cuervo( PL) 09/30/16-08/31/21  
 NIH/NINDS  
*Linking tau proteostasis with neuronal activity in FTD: Autophagy dysfunction and neuronal activity in FTD*  
Goal:The goal of our subproject is to test the contribution of tau-induced autophagy malfunction in the abnormal neuronal activity and tau propagation in FTD.  
Role: Leader Project 3
- **R01 DK098408** Cuervo, Wolkoff (MPI) 04/01/13-03/31/17 (no cost extension)  
 NIH/NIDDK  
 Liver Cell Membrane Protein-Expression and Function

Goal: The goal of our project is to identify the effect that changes in autophagy have in the endocytic pathway and to determine whether specialized lysosomes participate in each of these processes and in the different types of autophagy or whether the same group of lysosomes have multifunctional abilities.

Role: co-PI

- **5P30AG038072-03** Barzilai (PI) 08/15/2010-06/30/2020

NIH/NIA

Einstein Nathan's Shock Center of Excellence

Cellular and Tissue Aging Core

Goal: The goal of this core is to provide the members of the Nathan Shock Center on Biology of Aging with technical assistance, tools and reagents for the measurement of quality control parameters in cells and tissue samples from different origin.

Role: Core director

- **P01 AG017617** Nixon (PI) 04/01/05-03/31/21

NIH/NIA

Autophagic function and dysfunction in Alzheimer's disease

The goal of our subproject is to test if the observed increase in autophagic vacuoles in different forms of Alzheimer's disease results from increased protein turnover or alteration in normal clearance of the autophagic vacuoles.

Role: Collaborator (subcontract)

- **The Beatrice and Roy Backus Foundation** 10/1/10-2/28/19

Activation of Chaperone-Mediated Autophagy as Protective Mechanism in Parkinson's Disease

The aims of this study are (1) to generate and characterize mouse models with regulatable CMA activity in the central nervous system; and (2) to determine if upregulation of CMA in dopaminergic neurons can prevent or delay the onset of PD in mouse models.

Role: PI

- **The Rainwaters Foundation** 10/1/11-9/30/17

Chaperone-mediated autophagy in Tau biology.

This gift supports research that aims to (1) elucidate the *contribution of the different proteolytic systems* to the removal of normal and mutant tau and (2) identifying possible *adverse effects* of pathogenic tau in the normal functioning of autophagic pathways.

Role: PI

- **RA15CVD04 Leducq Network Award –Sadoshima (PI)** 1/1/2016 – 31/12/2019

Leducq Foundation

Modulating autophagy to treat cardiovascular disease

Goal: To test the effect of modulating CMA in the defense against atherosclerosis

Role: Project leader

- **Glenn Research Grant – P&F** Cuervo (PI) 10/01/12-09/30/20

Glenn Foundation

Goal: This project will analyze the status of the autophagic system in lymphoblasts from centenarians and their offspring..

Role: Principal Investigator



▲ **The JPB Foundation – Research grant - Cuervo (PI)** 11/1/2017-10/31/2018

Selective autophagy and Parkinson's Disease

Goal: To understand the basis of the malfunctioning of the cellular cleaning mechanisms in Parkinson's disease, and the consequences of their failure in the different brain cell types

Role: Principal Investigator

● **Robert and Renee Belfer** 2/1/12- *Endowment*

Autophagy and Neurodegeneration

This gift supports research activities related with the study of neurodegenerative diseases and the possible manipulation of different autophagic processes to prevent or slow down the course of these devastating disorders.

Role: PI

## Past

● **K01 AG00829-05** Cuervo (PI) 05/01/98-01/31/04

*National Institute on Aging/NIH*

“Mechanisms of Reduced Protein Degradation with Age”

The goals of this project were: 1) To analyze binding of substrate proteins to the membrane receptor for CMA in rat liver lysosomes; 2) To characterize additional components of the protein import machinery from rat liver lysosomes; 3) To identify the age-related defects in CMA using rat liver lysosomes

● **AFAR Research Grant** Cuervo (PI) 07/01/2000-06/30/02

*American Federation for Aging Research*

“Changes in the Lysosomal Receptor for Chaperone-mediated Autophagy with Age”

The goals of this project were: 1) To identify the protease responsible for the cleave of the lysosomal membrane receptor for CMA; 2) To characterize the minimal requirements for the dynamic distribution of the receptor between lysosomal membrane and matrix; 3) To identify changes in degradation and dynamic traffic of the receptor in lysosomes with age.

● **R03 AG19834-02** Cuervo (PI) 08/01/01-01/31/04

*National Institute on Aging /NIH*

“A Mouse Model for Studying Protein Degradation in Aging”

The goals of this project were: 1) To conditionally overexpress lamp2a in different mouse tissues; 2) To analyze changes in the activity of chaperone-mediated autophagy in young adult lamp2a-transgenic mice; 3) to determine the effect that overexpression of the receptor protein has on the removal of modified proteins from different animal tissues after acute oxidative stress.

● **HHMI Start-up Funds** Cuervo (PI) 11/01/01-11/31/03

*Howard Hughes Medical Institute*

“Lysosomes and Aging”

The purpose of this award was to assist the principal investigator to establish her independent research program in the field of protein degradation and aging

- **P30 DK412960-14** Cuervo (PI) 06/01/02-05/31/04  
NIH/NIDK "Feasibility study #1369"

The main goal of this protect was to develop methods to block the selective targeting of proteins to lysosomes for their degradation in different types of culture cells.

- **HSDA Research Grant** Sulzer/Cuervo (co-PIs) 07/01/01-06/30/05  
*Huntington's Disease Society of America*  
"Autophagy of huntingtin protein"

The goals of this project are: 1) To characterize the mode of autophagy that mediates autophagic/lysosomal HD sequestration; 2) To establish how htt is degraded; 3) To analyze whether autophagy is activated by oxidative stress in HD; 3) To determine the role of autophagy in the development of HD-like phenotypes in neurons.

- **AG-NS-0163-02** Cuervo (PI) 08/01/2002-07/31/06  
*Ellison Medical Foundation*  
"Restoration of chaperone-mediated autophagy activity in old rodents"

The main goal of this project is to identify methods to stimulate protein degradation in lysosomes of old rodents such as caloric restriction or overexpression of lysosomal components.

- **1 R21 AG025355** Cuervo (PI) 10/01/04-09/30/08  
NIH/NIA

Proteomic Analysis of Decreased Autophagy in Aging

The goal of this project is to use proteomic approaches to identify components in the lysosomal compartment which changes with age contributing to the impaired activity for chaperone-mediated autophagy in old organisms.

- **Glenn Award for Research** in Biological Mechanisms of Aging Cuervo (PI)  
Glenn Foundation

This one time award is granted to certain laboratories and investigators whose basic research in aging would benefit from an unsolicited infusion of unrestricted funds. We will use this funding to develop new transgenic animal models with tissue-specific impairment in chaperone-mediated autophagy.

Role: Principal Investigator

- **1 R13 AG037190-01** Cuervo (PI) 05/15/10-04/30/11  
NIH/NIA

2010 Biology of Aging Gordon Research Conference

Goal: To organize an international conference for the exchange of ideas and presentation of research in different aspects of the biology of aging.

Role: Principal Investigator

- **Link Medicine Collaboration** 10/1/10-9/30/11

Analysis of the step(s) in macroautophagy affected by LINK compound

LINK has identified a compound that improved cellular homeostasis. The goal of this collaborative project is to determine whether this compound may act by modifying autophagy, and identify the step(s) of the autophagic process affected by this compound.

Role: Collaborator

**P01 DK041918** Wolkoff (PI) 04/01/07-03/31/12

NIH/NIDDK

Interaction of autophagic and heterophagic pathways in liver

The goal of our project is to identify the effect that changes in autophagy have in the endocytic pathway and to determine whether specialized lysosomes participate in each of these processes and in the different types of autophagy or whether the same group of lysosomes have multifunctional abilities.

Role: PI project 4

**Hirschl/Weill-Caulier Career Scientist Award** Cuervo (PI) 01/15/09-01/14/14

Hirschl/Weill-Caulier Foundation

This award will allow screening of compounds that could modulate CMA activity and determine their effect in different disease animal models.

Role: Principal Investigator

**P50 NS038370** Sulzer (PI) 08/01/04-06/30/14 (no cost extension)

NIH/NINDS

Altered lysosomal degradation in PD

The goal of our subproject is to test the possibility that altered lysosomal degradation of alpha-synuclein and consequent alterations in cytosolic dopamine levels provides an initial, upstream cause of at least some forms of Parkinson's Disease.

Role: Collaborator (subcontract)

**Michael J. Fox Foundation** Cuervo (PI) 03/01/14-02/28/16

Interplay between LRRK2 and CMA

Goal: This project will analyze the role of LRRK2 in lysosome maturation and commitment for chaperone mediated autophagy

Role: Principal Investigator

**Dana's Angels Research Trust** Cuervo (PI) 11/01/15-10/31/16

Autophagic defects in Niemann-Pick type C1 disease

Goal: perform autophagic profiling of fibroblasts from Nieman Pick C1 patients

Role: Principal Investigator

**MJF Research Grant 2015 TAPP Program** Cuervo/Sulzer (co-PI) 4/1/16-3/31/17

Michael J Fox Foundation for Parkinson's Research

Genetic Modulation of LAMP-2A in PD-mouse models

Goal: To generate a bi-transgenic mouse model with regulatable expression of LAMP-2A and of alpha-synuclein in DA neurons to explore the beneficial effect of CMA upregulation.

Role: Principal Investigator

**MJF grant- Michael J. Fox Foundation** Cuervo/Gavathiotis (co-PI) 7/18/2014-7/17/2017

Chemical modulation of chaperone-mediated autophagy in Parkinson's Disease

Goal: To design, develop and analyze the efficiency of novel retinoic acid receptor alpha antagonists as a viable way of upregulating chaperone-mediated autophagy in vivo.

Role: Principal Investigator

**ADA 1-15-MI-03** Cuervo PI

1/01/2015-12/31/2017

American Diabetes Association

Interplay of chaperone-mediated autophagy with lipid metabolism and ER stress

Goal: This award supports the salary of a post-doctoral fellow in our lab interested in the relation between autophagy and lipid metabolism. This work intends to understand how autophagy, one of the basic systems that control metabolism in the cell, normally protects different organs against nutritional transgressions and how the gradual decrease in its function with age makes old organisms vulnerable to these nutritional insults.

Role: Principal Investigator/Mentor