

Ana Maria Cuervo MD PhD

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CURRICULUM VITAE

PERSONAL INFORMATION

Date of Birth: July 14, 1966 **Place of Birth:** Barcelona, Spain **Visa:** Permanent Resident USA

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

- 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.
- 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/ Member 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 Hirschl/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
- 2014 Margaret Pitman Lecture, NIH

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 (*add hoc* June 2003; February 2004)

NIH Study section CMAD (*add 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 Contributing editor of SAGE KE (Science Aging Knowledge Environment)
 2003- 2006 Editorial Board of Autophagy
 2003- Editorial Board of Experimental Gerontology
 2006- Associate Editor of Autophagy
 2006-2007 Section Editor of Aging Cell
 2007- Editor-in-chief of Aging Cell
 2011 - Faculty of the section on Aging of Faculty1000
 2011- Editorial Board of Cell Metabolism

(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 "4th 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, 5th 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
- 2014 co-Chair, Keystone Symposium on Systems Biology of Lipid Metabolism, Keystone, 2014

(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- 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 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 (tbh)

(5) Invited presentations (over past 5 years)

1. Dept. Biochem. Mol. Biol, Michigan State University, East Lansing, Michigan, January 2006
2. 31st 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. 8th 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. 4th Annual Nathan W. Shock Symposium, Towson, Maryland, September 2006
18. 4th International Conference on Autophagy, Japan, October 2006
19. Symposium "Disease modifying pathways in neurodegeneration", Society for Neuroscience Annual Meeting, Atlanta, October 2006
20. 5th 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. 6th 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. 5th 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. 21st Symposium of The Protein Society, Boston, July 2007
36. Gordon Conference on Stress Proteins in Growth, Oxford, England, August 2007
37. Parkinson's Disease Fundation, 50th Aniversary Educational Symposium, NY, October 2007
38. 17th 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. 5th 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 18th 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. 4th 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. Göttingen, Sept 2009
86. Dept. Molecular Biology and Genetics, Cornell University, Ithaca, September 2009
87. 5th 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. 62nd 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 Oncológicas, 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. 8th 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. 11th 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 14th 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. 18th 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. 26th 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. 48th 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. 6th 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. 7th 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 (tbh)
218. Aging Center, Cologne University, Cologne, Germany September 2013 (tbh)
219. New Castle Symposium on Aging Advances, New Castle, UK, September 2013 (tbh)
220. Centro de Investigaciones Biologicas, CIB-CSIC, Madrid, Spain, September 2013 (tbh)
221. Italian Society for Cell Biology, Ravenna, September, 2013 (tbh)
222. 3rd 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. INSERM U845, Paris-Descartes University, Paris, France, October 2013 (tbh)
225. International School of Pharmacology, Workshop on Healthy Life, Sicily, Italy October 2013 (tbh)
226. Cantoblanco Workshop on Tau, Madrid, Spain, October 2013 (tbh)
227. 2013 Alliance for Healthy Aging Symposium, Netherlands, November 2013 (tbh)
228. 2013 Kidney Week, Atlanta, November 2013 (tbh)
229. Neuroscience Department, Gententech, San Francisco, December 2013 (tbh)
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 tbh
232. Cystinosis Research Foundation Fourth International Symposim, Irvine, CA, March 2014 (tbh)
233. Margaret Pitman Lecture at NIH, Bethesda, MD, March 2014 (tbh)
234. Mahoney Institute of Neuroscience, University of Pennsylvania, Philadelphia, PA, March 2014
235. Pennington Biomedical Research Center, Louisiana State U., Baton Rouge, LA, April 2014 (tbh)
236. Department of Physiology, U. Texas Southwetern Medical Center, Dallas, TX, April, 2014 (tbh)
237. Medical University, South Caroline, April 1024 (tbh)
238. Experimental Biology, ASBMB "Postranlsation Protein Regulation", San Diego, CA, April 2014
239. Keystone Symposium on Autophagy: Fundamentals to Disease, Austin, Texas, May 2014 (tbh)
240. GRC on Neurobiology of Brain Disorders, Barcelona, Spain, July 2014 (tbh)
241. GSA Symposium on Protein Homeostasis, Washington DC, MA, November 2014 (tbh)
242. Keystone Symposium on System Biology of Lipid Metabolism, Keystone, CO, June 2015 (tbh)

BIBLIOGRAPHY

A. Original Communications in Reviewed Journals:**A.1. Experimental papers**

1. Romá, J.; **Cuervo, A.M.**; Macián, F.; Raya, A. Efectos de la administración crónica 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.
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43. Kaushik K, Singh R, Cuervo AM. Autophagic pathways and metabolic stress. *Diabetes Obes Metab.* 12 Supple2: 4-14, 2010
44. Wong E, Cuervo AM Integration of clearance mechanisms: the proteasome and autophagy. *Cold Spring Harb Perspect Biol.* 2:a006734, 2010

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46. Kaushik K, Bandyopadhyay U, Sridhar S, Kiffin R, Martinez-Vicente M, Kon M, Orenstein SJ, Wong E, Cuervo AM. Chaperone-mediated autophagy at a glance. *J Cell Sci*124(Pt4):495-9, 2010
47. Yang DS, Stavrides P, Mohan PS, Kaushik S, Kumar A, Ohno M, Schmidt SD, Wesson DW, Bandyopadhyay U, Jiang Y, Pawlik M, Peterhoff CM, Yang AJ, Wilson DA, St George-Hyslop P, Westaway D, Mathews PM, Levy E, Cuervo AM, Nixon RA. Therapeutic effects of remediating autophagy failure in a mouse model of Alzheimer disease by enhancing lysosomal proteolysis. *Autophagy*. 2011 Jul 1;7(7).
48. Hubbard VM, Valdor R, Macian F, Cuervo AM. Selective autophagy in the maintenance of cellular homeostasis in aging organisms. *Biogerontology*. 13:21-35, 2012
49. Santambrogio L, **Cuervo AM**. Chasing the elusive mammalian microautophagy. *Autophagy*. 7: 652-4, 2011
50. Yang DS, Stavrides P, Mohan PS, Kaushik S, Kumar A, Ohno M, Schmidt SD, Wesson DW, Bandyopadhyay U, Jiang Y, Pawlik M, Peterhoff CM, Yang AJ, Wilson DA, St George-Hyslop P, Westaway D, Mathews PM, Levy E, Cuervo AM, Nixon RA. Therapeutic effects of remediating autophagy failure in a mouse model of Alzheimer disease by enhancing lysosomal proteolysis. *Autophagy* 7:788-9, 2011
51. Singh R, **Cuervo AM**. Autophagy in the cellular energetic balance. *Cell Metab* 13: 495-504, 2011
52. Cuervo AM. Chaperone-mediated autophagy: Dice's wild idea about lysosomal selectivity. *Nat. Rev. Mol. Cell Biol* 12:535-41, 2011 (Timeline)
53. Cuervo AM, Macian F. Autophagy, nutrition and immunology. *Mol Aspects Med*, 33: 2-13, 2012
54. Sridhar S, Botbol Y, Macian F, Cuervo AM. Autophagy and Disease: always two side to a problem. *J Pathol* 226:255-73, 2012
55. Singh R, **Cuervo AM**. Lipophagy: connecting autophagy and lipid metabolism. *Int. J. Cell Biol*. 2012:282041
56. Kaushik S, **Cuervo AM**. Chaperone-mediated autophagy: a unique way to enter the lysosome world. *Trends Cell Biol* 22: 407-17, 2012
57. Kaushik S, **Cuervo AM**. Chaperones in autophagy. *Pharmacol Res* 66:484-93, 2012
58. Park C, **Cuervo AM**. Selective autophagy: talking with the UPS. *Cell Biochem Biophys*, [E-pub] 2013
59. **Cuervo AM**. Preventing lysosomal fat indigestion. *Nat Cell Biol*, 15:565-7, 2013

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
5. Dice, J.F.; Finn, P.; Majeski, A.; Mesires, N.; **Cuervo, A.M.** Chaperone-mediate autophagy. In: *Intracellular Mechanisms of Protein Degradation* (Klyonsky, D., ed) Landes Biosciences, Georgetown, pp 156-175, 2003
6. Nixon, R.A.; Yu, W.H.; **Cuervo, A.M.**; Kumar, A.; Yang, D.S.; Peterhoff, C.M. Autophagy in Alzheimer's Disease: Failure of a neuroprotective mechanism in Alzheimer's Disease and Related Disorders: Research Advances. Vol. 10 I. Kalide and B. Winblad, Eds. "Ana Aslan" International Academy of Aging. Bucharest, 2004
7. **Cuervo, A.M.*.** Proteolysis and protein turnover. *Encyclopedia of Aging*, R. Schulz; L. Noelker; K Rockwood; Richard Sprott (eds.). 4th edition. Springer Publishing Company, New York, 2005
8. Martinez-Vicente, M; Kaushik, S.; **Cuervo, A.M.*.** Autophagy in Aging and in Disease. In: *Autophagy in immunity and Infection*. (Deretic, V., ed), Wiley-Vch. Weinheim, 2006
9. Kaushik S, **Cuervo AM*.** Chaperone-mediated autophagy. In: *Methods Mol Biol, vol. 445: Autophagosome and Phagosome*. (Deretic, V, Ed.), Humana Press, 2007.
10. Petrucelli, L.; **Cuervo, A.M.**; Przedborski, S. Protein Aggregation. In: *Parkinson's disease: diagnosis and clinical management*. (Factor, SA, Weiner, WJ, eds), Demos Medical Publishing, NY, 2nd ed, 2007
11. Kaushik, S.; Wong, E.; **Cuervo, A.M*.** Selective Autophagy in Parkinson's Disease. In: *Parkinson's Disease: Pathogenic and Therapeutic Insights from Toxin and Genetic Models* (Nass, R, Przedborski, S, eds), Elsevier Academic Press, 2008
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 25, 2003
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. Eskelinen 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**, Debnath 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(2nd edition). *Autophagy* 7: 1273-94, 2011
17. Rodriguez-Navarro JA, **Cuervo AM**. Dietary lipids and aging compromise chaperone-mediated autophagy by similar mechanisms. 8, E-pub ahead of publication, 2012

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.

* Corresponding author

- 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
- 14th Annual Grantee Conference of the AFAR, Madison (USA), 2001
- Huntington's Disease Society of America Coalition for the Cure Meeting, Philadelphia (USA), 2001
- 41st 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
- 55th Annual Meeting of the Gerontological Society of America, Boston (USA), 2002
- 42nd Annual Meeting of the American Society for Cell Biology, San Francisco (USA), 2002
- 33rd Annual Meeting of the Society for Neuroscience, New Orleans (USA), 2003
- 43rd Annual Meeting of the American Society for Cell Biology, San Francisco (USA), 2003 (2 absts)
- Experimental Biology Meeting, Washington (USA), 2004
- 34rd 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
- 44rd Annual Meeting of the American Society for Cell Biology, Washington (USA), 2004 (2 abstrs)
- 35rd 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)
- 45rd 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)
- 5th International Symposium on Autophagy, Otsu, Japan, September 2009 (1 abstr)
- 8th EMBO/Annaberg Conference, Dennis Shields Memorial, Annaberg, January, 2009 (1 abstr)
- 11th 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)

TEACHING AND RELATED ACTIVITIES

A. Formal teaching

(1) Lectures in Courses

- 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 Neurscience, 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

(2) Teaching Awards

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

(3) Development of Curricular Courses

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)

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 Hepatology, 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*

Outside Einstein

- 2004 5th Neurobiology in Aging Conference, San Diego, October
- 2005 65th Annual meeting of the American Diabetes Association, San Diego, June
- 2006 4th 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, 50th 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 62nd 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 14th 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 48th 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

2013 Alzheimer's Association International Conference, Boston, MA, July 2013

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 |
| 2013 | 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

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)

Advisory committee:

- | | |
|---------------------------------------------------|----------------------------------------|
| • Yu Liu (Dr. A. Chang) | • Charles Guerra (Dr. P. Satir) |
| • Aashir Awan (Dr. P. Satir) | • Sangeeta Nath (Dr. A. Wolkoff) |
| • Eustratios Bananis (Dr. A. Wolkoff) | • Nuppur Kittur (Dr. T. Meir) |
| • Li Liu (Dr. B. Satir) | • Rebecca Li (Dr. M. Horwitz) |
| • Kim Macklin (Dr. D. Wilson) | • Sunyata Smith (Dr. D. Wilson) |
| • Pankajavalli Ramakrishnan (Dr. P. Davis) | • Xiaodi Yao (Dr. M. Kilein) |
| • Victoria Paroder (Dr. N. Carrasco) | • Souvik Sarkar (Dr. A. Wolkoff) |
| • Marisol Espinoza (Dr. P. Davis) | • Zhao Wang (Dr. P. Scherrer) |
| • Allyson Bunbury (Dr. L. Santambrogio) | • Maya Byfield (Dr. J. Backer) |
| • Sha-ron Pierre (Dr. Maria Pereira, Hunter Col.) | • Richard Weldon (Dr. M. Charron) |
| • Debbie Russel (Dr. E.L. Snap) | • Vanesa Hubbard (Dr. F. Macian) |
| • Daniela Hernandez (Dr. D. Sulzer, Columbia U) | • Catherine Liu (Dr. M. Keilian) |
| • Carla Portulano (Dr. N. Carrasco) | • Matthew Micsenyi (Dr. S. Walkley) |
| • Sunandini Sridhar (Dr. D. Shields) | • Walter Lai (Dr. E.L. Snap) |
| • Rory Flinn (Dr. J. Backer) | • Radames Cordero (Dr. M. Schmidt) |
| • Jo Choi (Dr. A. Wolkoff) | • Tony Wonga (Dr. K. Chandran) |
| • Andrew Rybin (Dr. R. Kitsis) | • Diana Althonvarangkul (Dr. R. Singh) |

- Yaw Shin Ooi (Dr. M. Kielian)
- Yichen Wang (Dr. J. Pessin)
- Kristina Ames (Dr. A. Melendez)
- Ignacio Guerrero (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)
- 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)
- 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)
- 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)

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
- Andrew Ferree (Dr. Benjamin Wolozin), Boston University, MA

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 Seul, Seoul)
- Hiroshi Koga (Ph.D. from Tokyo University, Tokyo, Japan)
- Eloy Bejarano (Ph. D. from Universidad de Sevilla, Sevilla, Spain)
- 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)
- Olatz Pampliega (PhD from Universidad de Bilbao, Spain)
- Inmaculada Tassett (PhD from University of Cordoba, Spain) – Fullbright Fellow
- Barbara Stiller (PhD from University of Cologne, Germany) – ADDA Fellow

c) Clinical Fellows

- Alejandro Quiroga (MD from Albert Einstein College of Medicine, Bronx, NY) – Pediatric Nephrology fellow
- Lori Spoozak (MD from Columbia University, NY, NY) – Oncology gynecology 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)
 - Matthew Micsenyi (GS, AECOM)
 - Jaime Anguiano (GS, AECOM)
 - Amanda Grieco (GS, AECOM)
 - Jaime Schneider (MSTP, AECOM)
 - Hillary Hilwoorth (MTSP, AECOM)
 - Nelson Ramirez (GS, 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)
 - MariaPaz Ramos (GS, AECOM)
 - Samantha Orenstein (GS, AECOM)
 - Robert Stanley (GS, AECOM)
 - Caroline Park (MSTP, AECOM)
 - Benjamin Caballero (GS, AECOM)

- Master students:**
- Missionara Amed (Fordham U, 2nd 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)
 - Idil Ohron (U. Paris, France)
 - Enric Poch (CEU, Valencia, 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
2012 Faculty of the Rehabilitative and Regenerative Medicine for Minority, Howard (tbh)

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 [cliip](#)
- 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 you cells take out the trash, [podcast](#), June 2011
- Webinar – Cell Press: Imaging the Sustainable Cell [Link](#)

ADMINISTRATIVE DUTIES AND COMMITTEES

- 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-present: 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-present: 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
 - 2011: Search Director siRNA facilities at Einstein (Chair)
 - 2010-present: Promotion committee for Professor Rank at Einstein
 - 2012-present: Search Committed for Chair of Neuroscience, Einstein
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GRANT SUPPORT

Active

- **R01 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) 02/01/09-1/31/14
 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 DK098408** Cuervo, Wolkoff (MPI) 04/01/13-03/31/18
 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) 08/15/2010-06/30/2015
 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
- **P50 NS038370** Sulzer (PI) 08/01/04-06/30/14
 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)
- **P01 AG017617** Nixon (PI) 04/01/05-03/31/16

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)

- **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

- **The Beatrice and Roy Backus Foundation** 10/1/10-1/30/14

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** 10/1/11-9/30/13

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

- **Glenn Research Grant – P&F** Cuervo (PI) 10/01/12-09/30/15

Glenn Foundation

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

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.

- **HMI 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