

CURRICULUM VITAE
for Professor KELVIN J. A. DAVIES

Full Name: Kelvin James Anthony Davies, Ph.D., D.Sc.
Appointment: The University of Southern California

- Executive Vice Dean (Dean of Faculty & Academic affairs and Dean of Research) of the Leonard Davis School of Gerontology,
- Director, Ethel Percy Andrus Gerontology Center,
- Director, USC Free Radical Institute,
- James E. Birren Chair of Gerontology, Leonard Davis School of Gerontology,
- USC Distinguished Professor of Gerontology, Molecular & Computational Biology; and Biochemistry & Molecular Medicine (Leonard Davis School of Gerontology; Dornsife College of Letters, Arts & Sciences; and Keck School of Medicine of USC).

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Work Contact: e-mail: kelvin@usc.edu Phone: (213)740-8959
Citizenships: U.S.A. (citizenship 1993) and Great Britain (born in London, England)
Spouse: Joanna M. S. Davies, M.D., FACP
Google Scholar Metrics: **h-index 110, i10-index 226, Citations 47,870**

Education:

Liverpool & Lancaster Universities	B.Ed.	1974	General Science & Kinesiology
University of Wisconsin	B.S.	1976	Physiology & Biophysics
University of Wisconsin	M.S.	1977	Physiology & Biophysics
University of California, Berkeley	C.Phil.	1979	Biochemistry & Physiology
University of California, Berkeley	Ph.D.	1981	Biochemistry & Physiology
University of Southern California	post doc.	1981	Biochemistry & Molecular Toxicology
Harvard Medical School	post doc.	1982/83	Biochemistry/Cell & Molecular Biology

Honors and Awards:

B.Ed. (hons.) Redbridge Undergraduate Fellow, 1974
 The International Fellowship of The University of California, Berkeley, 1977-1980
 The Chancellors Award for Research, University of California, Berkeley, 1980
 Phi Beta Kappa honor society, 1980; Kappa Delta Pi honor Society, 1976
 Fellow of Hoffman-La-Roche and Fellow of the Arco Foundation, University of Southern California, 1981
 American Heart Association Fellowship, Harvard Medical School, 1982
 Harwood S. Belding Award, American Physiological Society, 1982
 National Institutes of Health Fellowship, Harvard Medical School, 1983/84
 Faculty Research and Innovation Award, University of Southern California, 1984
 Young Investigator Award, National Institutes of Health, 1984
 Fellow of The Oxygen Society (F.O.S.), elected 1989
 Arthur Harden Trophy of the Biochemical Society, 1990
 Doctor of Medicine degree & Distinguished Professor, Russian Medical University, Moscow, 1993
 Doctor of Science degree, University of Moscow, 1993
 Doctor of Medicine degree, and 50th Anniversary Medal, University of Gdansk, Poland, 1995
 Parkinsons Foundation Fellow & Director of the USC Parkinsons Foundation Research Laboratory 1996
 Fellow of the American Association for the Advancement of Science (F.A.A.A.S.), elected 1996
 Distinguished Achievement and Service Award, The Oxygen Society, 1997
 Visiting Professor & CNR International Fellow, Univ. of Ancona and Univ. of Camerino, Italy, 1997
 Distinguished Visiting Professor, the University of Pisa, Italy, 1998
 Doctor of the University (*honoris causae*) University of Buenos Aires, Argentina, 1998

Honors and Awards, Continued:

Visiting Professor, University of Rennes, France, 2002, 2004, 2007, 2008, and 2009
 Visiting Professor, Churchill College, Cambridge University, United Kingdom, 2002
 Fellow of the Gerontological Society of America (F.G.S.A.), elected 2003
 President of The Oxygen Society (1992-1995), Secretary General (1988-1990), Council (1987-2006)
 President, The Oxygen Club of California, 2002-2005
 President, The International Society for Free Radical Research, 2003 – 2005
 The Bari Prize in Biochemistry & Molecular Biology, 2004
 Lifetime Scientific Achievement Award – Society for Free Radical Biology & Medicine, 2006
 Presidential Lecturer – American College of Sports Medicine, 2007
 Doctor of Medicine (*honoris causae*) Semmelweis University, Budapest, Hungary, 2008
 Distinguished Visiting Professor, the University of Padova, Italy, 2008
 Andrew W. Mellon Foundation/USC Graduate Student Mentoring Award, 2009
 William A. Pryor Annual Lecturer and Prize, Louisiana State University, Baton Rouge, LA, 2009
 Distinguished Visiting Professor, the European University of Brittany, France, 2010, 2011
 Faculty Research and Innovation Award, University of Southern California, 2011-2014
 Biennial Award, the European Society for Free Radical Research, 2011
 Andrew W. Mellon Foundation/USC Undergraduate Student Mentoring Award, 2011
 Fellow, the Society for Free Radical Biology & Medicine, elected 2012
 Phi Kappa Phi Faculty Research Recognition Award, 2012
 European Society for Free Radical Research Lecturer, 2012
 Fellow of the Royal Institution of Great Britain, elected 2012
 Chevalier de l'Ordre National du Mérite de France (Knight, National Order of Merit of France) 2012
 Trevor Slater Lecture, University of Ferrara, Ferrara, Italy 2014
 Honorary Professorship, Shenzhen Clinical Medical College, China, 2014
 Doctor of Medicine Degree (*honoris causae*) Guangzhou Medical University, China, 2014
 Fellow of the Royal Society of Medicine (London), elected 2014
 Chester M. Southern Outstanding Career Achievement Award, International Hormesis Society, 2015
 Fellow of the Academy for Gerontology in Higher Education, elected 2015
 Mario Unberto Dianzani Memorial Lecture, Italian Academy of Pathology Annual Conference, Alba, 2015
 Honorary Fellow of the Italian Academy of Pathology, 2015
 Fellow of the Royal Society of Chemistry (Great Britain), elected 2015
 Honorary Doctorate of Humane Letters & Distinguished Professor, Chang Gang University, Taiwan, 2015
 Fellow of the Society for Redox Biology & Medicine, elected 2015
 Fellow of the Academy of Europe (*Academia Europaea*) elected 2015
 Fellow of the Royal Society of Biology (Great Britain) elected 2016
 Hungarian Minister of Sport Lectureship, Budapest, Hungary, 2016
 Fellow of the Society for Redox Biology & Medicine, 2016
 Trevor Slater Gold Medal and Lectureship, International Society for Free Radical Research, 2016
 Hiram Friedsam Achievement Award, Academy for Gerontology & Gerontological Society America, 2017
 Honorary Distinguished Professor, Kings College, London University, 2017
 Fellow of the Royal College of Physicians of Edinburgh, elected 2017, admitted 2018
 Denham Harman Lifetime Scientific Achievement Award, American Aging Association, 2017
 European Science Foundation, College of Experts, member 2017
 Fellow of The Linnean Society of London, elected 2017, admitted 2018
 Commandeur Chevalier de l'Ordre National du Mérite de France (Knight Commander of the National Order of Merit of France) 2018
 USC Distinguished Professor of Gerontology, Molecular & Computational Biology; and Biochemistry & Molecular Medicine (University of Southern California: Leonard Davis School of Gerontology; Dornsife College of Letters, Arts & Sciences; and Keck School of Medicine of USC), 2019.
 Fellow, American Aging Association, elected 2019

Honors and Awards, Continued:

Fellow of the International Association of Advanced Materials (FIAAM) elected 2019
 Fulbright Distinguished Scholar Award, Sorbonne Université, Institut Pierre and Marie Curie, Institut Pasteur, CNRS, and INSERM, 2019-2020.

Journal Editing and Editorial Board Service:

Editor-in-Chief, *Free Radical Biology & Medicine*, Elsevier (1985-Now)
 Editor-in-Chief, *Biochemistry and Molecular Biology International*, Taylor and Francis (1998-1999)
 Editor-in-Chief, *IUBMB Life* (for the Intl. Union of Biochem. & Mol. Biol.) Taylor and Francis (1999-2001)
 Associate Editor: *the Journals of Gerontology: Biological Sciences* (1995-2000)
 Associate Editor: *Cell & Molecular Life Sciences* (formerly *Experientia*) (1996-Now)
 Associate Editor: *IUBMB Life* (2001-2003)
 Associate Editor: *Mitochondrion* (2000-2006)
 Editorial Board Member: *The Biochemical Journal* (1989-1995)
 Editorial Board Member: *Advances in Free Radical Biology & Medicine* (1985-1987)
 Editorial Board Member: *Amino Acids* (1991-2000)
 Editorial Board Member: *Biofocus* (1994-1996)
 Editorial Board Member: *Physical Chemical Biology & Medicine* (1996-Now)
 Editorial Board Member: *Molecular Aspects of Medicine* (1993-2003)
 Editorial Board Member: *Methods in Enzymology* (1991-2005)
 Editorial Board Member: *RNA Biology* (2003-Now)
 Editorial Board Member: *Rambam Maimonides Medical Journal* (2008 – Now)
 Editorial Board Member: *Food and Nutrition Sciences* (2011 – Now)
 Editorial Board Member: *Journal of Gerontology & Geriatric Research* (2011 – Now)
 Editorial Board Member: *Advances in Alzheimer's Disease* (2011-Now)
 Editorial Board Member: *Modern Public Health* (2012-Now)
 Editorial Board Member: *Redox Biology* (2012-Now)
 Editorial Board Member: *Journal of Neurodegenerative & Cerebrovascular Diseases* (2012 – Now)
 Editorial Board Member: *Scholarena Journal of Nutrition & Food* (2014 – Now)
 Editorial Board Member: *Sports and Exercise Medicine - Open Journal* (2014 – Now)
 Editorial Board Member: *Journal of Biochemistry & Molecular Biology Research* (2014 – Now)
 Editorial Board Member: *Journal of Parkinson's Disease and Alzheimer's Disease* (2014 – Now)
 Editorial Board Member - *AGE: Journal of the American Aging Association* (2015 – 2017)
 Editorial Board Member – *GeroScience: (new) Journal of the American Aging Association* (2017 – now)

Appointments and Positions:

2012-Now Executive Vice Dean (Dean of Faculty & Academic Affairs, and Dean of Research), Leonard Davis School of Gerontology and Director, Ethel Percy Andrus Gerontology Center, USC; and Director of the USC Free Radical Institute
 1996-Now James E. Birren Chair of Gerontology, Leonard Davis School of Gerontology;
 1996-Now Professor of Molecular & Computational Biology, Department of Biological Sciences, Dana and David Dornsife College of Letters, Arts & Sciences: the University of Southern California.
 2017-Now Professor of Biochemistry & Molecular Medicine, USC Keck School of Medicine: the University of Southern California.
 2008-2010 Associate Dean, Leonard Davis School of Gerontology and Associate Director, Ethel Percy Andrus Gerontology Center, University of Southern California.
 1996-2007 Associate Dean for Research, Leonard Davis School of Gerontology, and Ethel Percy Andrus Gerontology Center, University of Southern California.
 1989-1996 Chairman & John A. Muntz University Professor, Dept. of Biochemistry & Molecular Biology, and Distinguished Professor of Molecular Medicine, Dept. of Medicine, The Albany Medical

- College, NY.
- 1987-1990 Associate Professor of Biochemistry and Physiology, and of Molecular Pharmacology & Toxicology, Schools of Medicine and Pharmacy; Member Institute for Molecular Medicine; Member Norris Cancer Center Cell Biology Program: the University of Southern California.
- 1984-1987 Assistant Professor of Biochemistry, Molecular Biology, Physiology, and Toxicology, Schools of Medicine and Pharmacy, the University of Southern California.
- 1983-1984 Assistant Professor, Department of Physiology & Biophysics, Harvard Medical School, Harvard University.
- 1982-1983 Postdoc Fellow, Physiology & Biophysics, Harvard Medical School, Harvard University.
- 1981-1982 Res. Assoc., Dept. of Biochemistry & Institute for Toxicology, University of Southern California.
- 1980-1981 Lecturer, Department of Physiology and Anatomy, University of California, Berkeley.
- 1977-1980 TA/RA, Membrane Bioenergetics Group, Lawrence Berkeley Laboratory, and Departments of Physiology, and Comparative Biochemistry, The University of California, Berkeley.
- 1975-1977 Research Assistant, Program Assistant, and Editor of "The Cardio-Gram", La Crosse Cardiac Rehabilitation Program, The University of Wisconsin.
- 1974-1975 Youth Club Director, the Redbridge Youth Center, London, England.
- 1974-1975 Basic Science Teacher, The Beal School for Boys, London, England.
- 1970-1971 Youth Club Leader, the Redbridge Youth Center, London, England.

Professional and Administrative Responsibilities:

- Founder and Director of the USC/Los Angeles County School District "S.T.A.R." Program (1984-1990)
- Director of Graduate Studies, The Institute for Toxicology, University of Southern California (1985-1990)
- Member of the Council, The International Society for Free Radical Research (1988-2001)
- Member of the Research Council of New Zealand (1988-2006)
- Council Member, International Union of Biochemistry and Molecular Biology (1995-1999)
- Council Member, the Gordon Research Conferences, "Frontiers of Science" (1995-2000, 2007-2010)
- Member, Advisory Council, National Institute of Environmental Health Sciences (2003-2006)
- Member, American Federation for Aging Research, National Scientific Advisory Council (2003-Now)
- Member, Board of Scientific Counselors, Intramural Research Program, NHLBI - NIH (2005-2009)
- Scientific Advisory Board Member, Consiglio Nazionale delle Ricerche, Italy (2000-Now)
- Scientific Advisory Board Member, University of Siena, Siena, Italy (2003 - Now)
- Member, Board of Directors, Intellect Neurosciences, Inc. (2006 - 2009)
- Chairman, Scientific Advisory Board, Intellect Neurosciences, Inc. (2006 - 2009)
- Scientific Advisory Board Member, University of Padova, School of Medicine (2007-Now)
- Scientific Advisory Board Member, Spanish Network on Aging and Frailty (2007-Now)
- Scientific Advisory Board Member, Institute on Aging of the Austrian Academy of Sciences (2007-Now)
- Biological Sciences Executive Committee, Gerontological Society of America (2012-Now)
- Chair, Fellowship Committee, Gerontological Society of America (2013-2016)
- Chair, Membership Committee, Gerontological Society of America (2016)
- Chair, Biological Sciences Section, Gerontological Society of America (2016-2019)
- Member, Board of Directors, American Aging Association - AGE (2015-Now)
- Member, Executive Council, the Gerontological Society of America ((2017-2019)

Professional Societies, Academies & Organizations:

- Academia Europaea* (the European Academy) Fellow
- Academy for Gerontology in Higher Education (Fellow)
- American Aging Association (AGE) Member, Board of Directors (Fellow)
- American Association for the Advancement of Science (Fellow)
- American College of Sports Medicine

American Society for Biochemistry & Molecular Biology
 Biochemical Society
 Committee on Publication Ethics (C.O.P.E.) UK
 European Society for Free Radical Research
 Gerontological Society of America (Fellow)
 Italian Academy of Pathology (Fellow)
 International Cell Research Organization
 International Society for Free Radical Research
 Linnean Society of London (Fellow)
 New York Academy of Science
 Oxygen Club of California
 Oxygen Society (Fellow)
 Phi Beta Kappa
 Physiological Society
 Royal College of Physicians of Edinburgh (Fellow)
 Royal Institution of Great Britain (Fellow)
 Royal Society of Medicine (Fellow)
 Royal Society of Chemistry (Fellow)
 Sigma Xi
 Society for Free Radical Biology & Medicine (Fellow)
 Society for Redox Biology & Medicine (Fellow)

Grant Reviewing:

Albany Medical College Faculty Research Award
 ALS Foundation
 American Heart Association
 Austrian Academy of Sciences
 BlueSky International Programme of the French National Research Agency
 Consiglio Nazionale delle Ricerche, Italy
 Cotterel College Grant Foundation
 Dutch Cancer Society
 Medical Research Council, UK
 National Institutes of Health
 National Science Foundation
 North Carolina Board of Science and Technology
 Research Council of New Zealand
 Spanish Network on Aging and Frailty
 Swiss National Science Foundation
 Third World Research Council
 USC Faculty Research Award (Chair, 1996/97)
 USC Leonard Davis School, Hanson Thorell Family Research Awards (Committee Chair 2014-Now)
 USC Faculty Research & Innovation Fund Award (reviewer 2015)

Journal Reviewing:

American Journal of Physiology
 Archives of Biochemistry and Biophysics
 Biochemical & Biophysical Research Communications
 Biochemical Journal
 Biochemical Pharmacology
 Biochimica Biophysica Acta
 Blood

Journal Reviewing continued:

Cancer Research
 Chemical Research in Toxicology
 Cell
 Cell & Molecular Life Sciences
 EMBO Journal
 Experimental Gerontology
 FASEB Journal
 Free Radical Research Communications
 Gerontology
 IUBMB Life
 Journal of Applied Physiology
 Journal of Bacteriology
 Journal of Biological Chemistry
 Journal of Clinical Investigation
 Journal of Cell Biology
 Journal of Gerontology
 Journal of Neurochemistry
 Mitochondrion
 Molecular and Cellular Biology
 Molecular Aspects of Medicine
 Nature
 Nature Cell Biology
 Nature Genetics
 Nature Medicine
 Neurochemistry International
 New England Journal of Medicine
 Proceedings of the National Academy of Science (USA)
 Rambam Maimonides Medical Journal
 Rheumatism & Arthritis
 Royal Society Open Science
 Science

Community Service and Involvement:

Member, The Harvard Club, Boston, MA (1982-1984)
 Founder/Director of the USC/Los Angeles County Schools District "S.T.A.R." Program (1984-1990)
 Member, the Fort Orange Club of Albany, NY (1992-1996)
 Member, Board of Trustees, The Albany Academy for Boys, Albany, NY (1993-1996)
 Member, Opera Guild of Los Angeles, CA (1983-Now)
 AYSO Soccer Coach - Albany, New York (1992-95) - San Marino/South Pasadena, CA (1996-2001)
 Boy Scout leader, San Marino, CA Troop 358 (1998-2006); Webelos leader, San Marino, Pack 354 (1999)
 Catalina Island Marine Institute volunteer schools counselor (1996-2003)
 President, The California Philharmonic Foundation & the California Philharmonic Orchestra (1996-2003)
 Director, San Marino High School Football Boosters Club (2002-2006)
 Member, California Yacht Club (2006-Now)
 Board Member, California Philharmonic Foundation & the California Philharmonic Orchestra (2003-Now)
 President Emeritus, California Philharmonic Foundation & California Philharmonic Orchestra (2003-Now)

TEACHING & CLASSES TAUGHT**At the University of California, Berkeley (1981)**

Human Physiology (4.0 units)

At Harvard Medical School, Harvard University (1982)

Introduction to Physiology and Cell Biology (4.0 units)

At the University of Southern California (1983-1990)

M.D. Program, Keck School of Medicine:

MED 100: First Year Medicine (1.0-18.0 units, max 18)

MED 200: Second Year Medicine (1.0-18.0 units, max 18)

Biochemistry Department, Keck School of Medicine:

BISC 502a: Molecular Genetics and Biochemistry (4.0 units)

BISC 502b: Molecular Genetics and Biochemistry (4.0 units)

BISC 542: Seminar in Molecular Biology (1.0 units, max 6)

School of Pharmacy: Pharm. Science (PSCI), Mol. Pharmacol. & Toxicol. (MPTX), Pharmacy (PHRD):

Pharmacy (PHRD 503)

PSCI/MPTX 531: Cell Biology (4.0 units)

PSCI/MPTX 561: Molecular Biology (4.0 units)

PSCI/MPTX 571: Biochemistry (4.0 units)

MPTX 501: Molecular Pharmacology and Toxicology II (4.0 units)

PSCI 505: Free Radical Toxicology (4.0 units)

MPTX 573: Systems Physiology and Disease II (4.0 units)

PSCI 557: Introduction to Tools and Techniques for Chemical Biology

At the Albany Medical College (1990-1996)

Biochemistry & Molecular Biology – M.D. Program, School of Medicine

Biochemistry & Molecular Biology – Dept. of Biochemistry & Molecular Biology MS/PhD Program

Free Radicals & Oxidative Stress – Dept. of Biochemistry & Molecular Biology MS/PhD Program

At the University of Southern California (1996 - Now)

Leonard Davis School of Gerontology:

GERO 310: Physiology of Aging (4.0 units)

GERO 499 Free Radical Antioxidants as Functional Foods (4 units)

GERO 499 Seminar in Cellular Stress Responses and Aging (2 units)

GERO 510: Physiology of Development and Aging (4.0 units)

GERO 592: Multidisciplinary Research Seminar in Aging (2.0 – 8.0 units)

GERO 600: Geroscience: Molecular and Cellular Biology (4.0 units)

GERO 602: Seminar on Discoveries in Biogerontology (2.0 units)

GERO 614L: Laboratory Rotations in the Biology of Aging (4.0-8.0 units)

GERO 601: Molecular Genetics of Aging (4.0 units)

GERO 602: Seminar on Discoveries in Biogerontology (2.0 units)

GERO 603: Research Integrity (2.0 units)

GERO 666/PSCI 633: Free Radical Chemistry, Biology, and Medicine (4.0 units)

Molecular & Computational Biology, Dept. of Biol. Sciences, Dornsife College of Letters, Arts, & Sciences:

BIOC 531: Cell Biology (4.0 units)

BIOC 561: Molecular Biology (4.0 units)

BIOC 571: Biochemistry (4.0 units)

BIOC 543: Human Molecular Genetics (4.0 units)

BIOC 545: Mitochondrial Bioenergetics (4.0 units)

BIOC 549: Protein Chemistry - Structure and Function (4.0 units)

KELVIN J. A. DAVIES' LAB. PUBLICATIONS

A. Peer Reviewed Journal Articles

1. Davies, K.J.A., Packer, L., and Brooks, G.A. (1981) Biochemical adaptation of mitochondria, muscle, and whole-animal respiration to endurance training. *Arch. Biochem. Biophys.* **209**, 539-554.
2. Davies, K.J.A., Packer, L., and Brooks, G.A. (1982) Exercise Bioenergetics following sprint training. *Arch. Biochem. Biophys.* **215**, 260-265.
3. Maguire, J.J., Davies, K.J.A., Dallman, P.R., and Packer, L. (1982) Effects of dietary iron deficiency on iron-sulfur proteins and bioenergetic functions of skeletal muscle mitochondria. *Biochim. Biophys. Acta* **679**, 210-220.
4. Davies, K.J.A., Maguire, J.J., Brooks, G.A., Dallman, P.R., and Packer, L. (1982) Muscle mitochondrial bioenergetics, oxygen supply, and work capacity during dietary iron deficiency and repletion. *Am. J. Physiol.: Endocrinol. Metab.* **242**, E418-E427.
5. Quintanilha, A.T. and Davies, K.J.A. (1982) Vitamin E deficiency and photosensitization of electron transport carriers in microsomes. *FEBS Lett.* **139**, 241-244.
6. Quintanilha, A.T., Packer, L., Davies, J.M.S., Racanelli, T.L. and Davies, K.J.A. (1982) Membrane effects of vitamin E deficiency: bioenergetic and surface charge density studies of skeletal muscle and liver mitochondria. *Ann. NY Acad. Sci.* **393**, 32-47.
7. Davies, K.J.A., Quintanilha, A.T., Brooks, G.A., and Packer, L. (1982) Free radicals and tissue damage produced by exercise. *Biochem. Biophys. Res. Commun.* **107**, 1198-1205.
8. Davies, K.J.A. and Hochstein, P. (1982) Ubisemiquinone radicals in liver: implications for a mitochondrial Q cycle *in vivo*. *Biochem. Biophys. Res. Commun.* **107**, 1292-1299.
9. Davies, K.J.A., Doroshov, J.H., and Hochstein, P. (1983) Mitochondrial NADH dehydrogenase-catalyzed oxygen radical production by adriamycin, and the relative inactivity of 5-iminodaunorubicin. *FEBS Lett.* **153**, 227-230.
10. Doroshov, J.H. and Davies, K.J.A. (1983) Comparative cardiac oxygen radical metabolism by anthracycline antibiotics, mitoxantrone, bisantrene, 4'-(9-acridinylamino)-methanesulfon-*m*-anisidide, and neocarzinostatin. *Biochem. Pharmacol.* **32**, 2935-2939.
11. Davies, K.J.A., Donovan, C.M., Refino, C.J., Brooks, G.A., Packer, L., and Dallman, P.R. (1984) Distinguishing the effects of anemia and muscle iron deficiency on exercise bioenergetics in the rat. *Am. J. Physiol.: Endocrinol. Metab.* **246**, E535-E543.
12. Sevanian, A., Davies, K.J.A. and Hochstein, P. (1985) Conservation of vitamin C by uric acid in blood. *J. Free Radicals Biol. Med.* **1**, 117-124.
13. Davies, K.J.A. and Doroshov, J.H. (1986) Redox cycling of anthracyclines by cardiac mitochondria: I. Anthracycline radical formation by NADH dehydrogenase. *J. Biol. Chem.* **261**, 3060-3067.
14. Doroshov, J.H. and Davies, K.J.A. (1986) Redox cycling of anthracyclines by cardiac mitochondria: II. Formation of superoxide anion, hydrogen peroxide, and hydroxyl radical. *J. Biol. Chem.* **261**, 3068-3074.
15. Davies, K.J.A., Sevanian, A., Muakkassah-Kelly, S.F., and Hochstein, P. (1986) Uric acid-iron complexes: a new aspect of the antioxidant functions of uric acid. *Biochem. J.* **235**, 747-754.
16. Davies, K.J.A. (1986) Intracellular proteolytic systems may function as secondary antioxidant defenses: An hypothesis. *J. Free Radicals Biol. Med.* **2**, 155-173.
17. Davies, K.J.A. and Goldberg, A.L. (1987) Oxygen radicals stimulate proteolysis and lipid peroxidation by independent mechanisms in erythrocytes. *J. Biol. Chem.* **262**, 8220-8226.
18. Davies, K.J.A. and Goldberg, A.L. (1987) Proteins damaged by oxygen radicals are rapidly degraded in extracts of red blood cells. *J. Biol. Chem.* **262**, 8227-8234.
19. Davies, K.J.A. (1987) Protein damage and degradation by oxygen radicals: I. general aspects. *J. Biol. Chem.* **262**, 9895-9901.
20. Davies, K.J.A., Delsignore, M.E., and Lin, S.W. (1987) Protein damage and degradation by oxygen radicals: II. Modification of amino acids. *J. Biol. Chem.* **262**, 9902-9907.
21. Davies, K.J.A. and Delsignore, M.E. (1987) Protein damage and degradation by oxygen radicals: III. Modification of secondary and tertiary structure. *J. Biol. Chem.* **262**, 9908-9913.
22. Davies, K.J.A., Lin, S.W., and Pacifici, R.E. (1987) Protein damage and degradation by oxygen radicals: IV. Degradation of denatured protein. *J. Biol. Chem.* **262**, 9914-9920.

23. Taylor, A. and Davies, K.J.A. (1987) Protein oxidation and diminished proteolytic capacity in cataract formation during aging. *Free Radical Biol. Med.* **3**, 371-377.
24. Davies, K.J.A. and Lin, S.W. (1988) Degradation of oxidatively denatured proteins in *Escherichia coli*. *Free Radical Biol. Med.* **5**, 215-223.
25. Davies, K.J.A. and Lin, S.W. (1988) Oxidatively denatured proteins are degraded by an ATP-independent pathway in *Escherichia coli*. *Free Radical Biol. Med.* **5**, 225-236.
26. McKenna, S.M. and Davies, K.J.A. (1988) Inhibition of bacterial growth by hypochlorous acid. *Biochem. J.* **254**, 685-692.
27. Salo, D.C., Lin, S.W., Pacifici, R.E., and Davies, K.J.A. (1988) Superoxide dismutase is preferentially degraded by a proteolytic system from red blood cells following oxidative modification by hydrogen peroxide. *Free Radical Biol. Med.* **5**, 335-339.
28. Marcillat, O., Zhang, Y., Lin, S.W., and Davies, K.J.A. (1988) Mitochondria contain a proteolytic system which can recognize and degrade oxidatively denatured proteins. *Biochem. J.* **254**, 677-683. (PMCID: PMC 1135138)
29. Marcillat, O., Zhang, Y., and Davies, K.J.A. (1989) Oxidative and non-oxidative mechanisms in the inactivation of cardiac mitochondrial electron transport chain components by doxorubicin. *Biochem. J.* **259**, 181-189.
30. Pacifici, R.E., Salo, D.C., Lin, S.W., and Davies, K.J.A. (1989) Macroxyproteinase (M.O.P.): A 670 kDa proteinase complex that degrades oxidatively denatured proteins in red blood cells. *Free Radical Biol. Med.* **7**, 521-536.
31. Murakami, K., Jahngen, J.H., Lin, S.W., Davies, K.J.A., and Taylor, A. (1990) Degradation of eye lens alpha-crystallin by a lens high molecular weight proteinase following exposure to hydroxyl radicals. *Free Radical Biol. Med.* **8**, 217-222.
32. Pacifici, R.E. and Davies, K.J.A. (1990) Protein degradation as an index of oxidative stress. *Methods Enzymol.* **186**, 485-502.
33. Salo, D.C., Pacifici, R.E., and Davies, K.J.A. (1990) Superoxide dismutase undergoes proteolysis and fragmentation following oxidative modification and inactivation. *J. Biol. Chem.* **265**, 11919-11927.
34. Zhang, Y., Marcillat, O., Giulivi, C., Ernster, L., and Davies, K.J.A. (1990) The oxidative inactivation of mitochondrial electron transport chain components and ATPase. *J. Biol. Chem.* **265**, 16330-16336.
35. Giulivi, C. and Davies, K.J.A. (1990) A novel antioxidant role for hemoglobin: the comproportionation of ferrylhemoglobin with oxyhemoglobin. *J. Biol. Chem.* **265**, 19453-19460.
36. Pacifici, R.E. and Davies, K.J.A. (1991) Protein, lipid, and DNA repair systems in oxidative stress: the free radical theory of aging revisited. *Gerontology* **37**, 166-180.
37. Salo, D.C., Donovan, C.M., and Davies, K.J.A. (1991) HSP70 and other possible heat shock or oxidative stress proteins are induced in skeletal muscle, heart, and liver during exercise. *Free Radical Biol. Med.* **11**, 239-246.
38. Maiorino, M., Chu, F.F., Ursini, F., Davies, K.J.A., Doroshov, J.H., and Esworthy, R.S. (1991) Phospholipid hydroperoxide glutathione peroxidase is the 18-kDa selenoprotein expressed in human tumor cell lines. *J. Biol. Chem.* **266**, 7728-7732.
39. Sevanian, A., Davies, K.J.A., and Hochstein, P. (1991) Serum urate as an antioxidant for ascorbic acid. *Am. J. Clin. Nutr.* **54**, 1129S-1134S.
40. Giulivi, C. and Davies, K.J.A. (1993) Dityrosine and tyrosine oxidation products are endogenous markers for the selective proteolysis of oxidatively modified red blood cell hemoglobin by the (19 S) proteasome. *J. Biol. Chem.* **268**, 8752-8759.
41. Davies, K.J.A. (1993) Protein modification by oxidants and the role of proteolytic enzymes. *Biochem. Soc. Trans.* **21**, 346-353.
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US Provisional Patent Application, Serial No. 61/422,691 filed December 14, 2010. USC 0111 PRV 10-4511 Labeling of Proteins with the Fluorophore 7-Amino-4-Methylcoumarin (AMC) Generates Novel Proteolytic Substrates. Statement Regarding Federally Sponsored Research or Development - The invention was made with Government support under Grant No. RO1-ES003598, and by ARRA Supplement 3RO1-ES 003598-22S2, both from the NIH/NIEHS to KJAD. The Government has certain rights to the invention. The methods were described in the publication: Pickering, A.M. and Davies, K.J.A. (2011) A simple fluorescent labeling method for studies of protein oxidation, protein modification, and proteolysis. *Free Radical Biol. Med.* (published online ahead of print) <http://dx.doi.org/10.1016/j.freeradbiomed.2011.08.018> and are the subject of a US provisional patent application, Serial No. 61/422,691

B. Book Chapters Published

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& Mitochondria in Nervous System Function & Disease. Invited Talk P002, Page 9.

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E. Book Reviews

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3. Davies, K.J.A. (1986) Review of: “Singlet Oxygen”, Vols. 1,2,3, and 4, (Frimer, A.A., ed.) CRC Press, Boca Raton. In: *J. Free Radicals Biol. Med* 2, 149.
4. Davies, K.J.A. (1987) Review of: “Handbook of Methods for Oxygen Radical Research” (Greenwald, R.A., ed.) CRC Press, Boca Raton. In: *Free Radical Biol. Med.* 3, 161.
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F. Editorials, Letters, etc

1. Davies, K.J.A. (1985) Editorial. *J. Free Radicals Biol. Med* 1, 1-2.
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47. Davies, K.J.A. (2008) In Memoriam: Earl R. Stadtman (1919-2008). *Free Radic. Biol. Med.* **44**: 919-920.
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49. Davies, K.J.A. (2011) Your Paper, Your Way. *Free Radic. Biol. Med.* **51**: 247.
50. Davies, K.J.A. (2019) In Memoriam: William Austin Pryor (1929 – 2019). *Free Radical Biology & Medicine* Volume **135**, Pages iii-v, 2019.
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MEETINGS & CONFERENCES ORGANIZED

1. “Intermediary Metabolism” (symposium chairperson) at the Federation of American Societies for Experimental Biology 66th Annual Meeting, New Orleans, Louisiana, 4/15-4/23, 1982.
2. “Protein Metabolism” (symposium organizer and chairperson) at the Federation of American Societies for Experimental Biology 69th Annual Meeting, Anaheim, California, 4/21-4/26, 1985.
3. “The Physiology of Free Radicals” (conference organizer and chairperson) at the 30th Congress of The International Union of Physiological Sciences, Vancouver, Canada, 7/13-7/18, 1986.
4. “Protein Oxidation & Protein Turnover” (symposium co-organizer and co-chairman) at the 4th International Congress on Oxygen Radicals, San Diego, CA, 6/27-7/3, 1987.
5. “Repair Mechanisms in Oxidative Stress” (symposium organizer and chairperson) at the Fifth International Conference on Superoxide and Superoxide Dismutase, Jerusalem, Israel, 9/17-9/22, 1989.
6. “Oxidative Damage & Repair”: The 5th Biennial Meeting of the International Society for Free Radical Research (meeting organizer) Pasadena, California, 11/14-11/20, 1990. A total of 1,150 registrants attended the meeting.
7. “Oxygen ‘93”: 1st Annual Meeting of the Oxygen Society (meeting organizer) Charleston, South Carolina, 11/12-11/17, 1993. A total of 540 registrants attended the meeting.
8. “Oxidants & Antioxidants in Biology: New Developments in Research and Health Effects” (meeting co-organizer) Pasadena, California 2/4-2/5, 1994. A total of 200 registrants attended the meeting.
9. Gordon Conference: Oxygen Radicals in Biology (meeting vice-chairman) Ventura, California, 2/6-2/11, 1994.
10. “Molecular Mechanisms of Enzyme Action” (meeting co-chairman) Bangalore, India, 9/23-9/25, 1994 (a satellite meeting of the IUBMB Congress in New Delhi).
11. “Electron Transfer: From Energy Coupling to Aging” (meeting co-chairman) San Francisco, California, 3/21-3/22, 1995.
12. “Oxygen ‘95”: Annual Meeting of the Oxygen Society (meeting co-organizer) Pasadena, California, 11/16-11/21, 1995.
13. Gordon Conference: Oxygen Radicals in Biology (meeting chairman) Ventura, California, 2/4-2/9, 1996.
14. International Workshop on Wine and Human Health (meeting co-organizer) Udine, Italy, 10/9-10/11, 1996
15. SFRR International VIII Biennial Meeting (Intl. organizing committee) Barcelona, Spain, 10/1-10/5, 1996.
16. Oxygen Club of California 1997 Annual Meeting (co-organizer) Santa Barbara, California, 2/26-3/1, 1997.
17. Oxygen Club of California 1998 Congress (meeting co-organizer) Santa Barbara, California, 2/5-2/8, 1998.
18. Oxygen Club of California 1999 Congress (meeting co-organizer) Santa Barbara, California, 3/3-3/6, 1999.
19. SFRR Europe 1999 Summer Meeting (co-organizer) Dresden, Germany, June 15-19, 1999.
20. Oxygen Club of California 2000 Congress (meeting co-organizer) Santa Barbara, California, 3/1-3/4, 2000.
21. Oxygen Club of California 2001 Congress (meeting co-organizer) Santa Barbara, California, 3/7-3/10, 2001.
22. Workshop on Physical Exercise, Antioxidants, Oxidative Stress, and Gene Regulation (workshop organizing committee) Rennes, France, 12/6-12/8, 2001.
23. Oxygen Club of California 2002 Congress (meeting co-organizer) Santa Barbara, California, 3/6-3/9, 2002.
24. XIth Biennial General Meeting of the International Society for Free Radical Research (meeting co-organizer), Paris, France, 7/16-7/20, 2002.
24. UNESCO/COSTAM/SFRR Workshop on Micronutrients and Health (meeting co-organizer) Kota Kinabalu, Sabah, Malaysia Borneo, 7/17-7/20, 2003.
25. Oxygen Club of California 2004 Congress (meeting organizer) Santa Barbara, California, 3/10-3/13, 2004
26. 12th Biennial General Meeting of the International Society for Free Radical Research (meeting co-organizer) Buenos Aires, Argentina, 05/19-05/23, 2004.
27. Gordon Conference: Oxidative Stress and Disease (meeting vice-chairman) Ventura, California, 3/11-3/16, 2007.
28. Gordon Conference: Oxidative Stress and Disease (Co-Chairman) Il Ciocco (Tuscany), Italy, March, 2009.
29. Gerontological Society of America and Society for Free Radical Biology & Medicine - Joint Symposia on “The Free Radical Theory of Aging Revisited.” Three Symposia sessions comprising 12 plenary talks. San Diego, CA, November 14-18, 2012.
30. “The PARADOX Workshop”: A Franco-American Workshop on the Roles of Free radicals and Oxidative Stress in Heart Disease, Stroke, Dementia, Cancers, and Aging, Los Angeles, California, USA. October 13-16, 2016.

PRESENTATIONS AT MEETINGS

1. Davies, K.J.A. Free Radicals and Mitochondrial Bioenergetics (poster presentation) Gordon Conference: Oxygen Radicals in Biology and Medicine, Ventura, California, 1/12-1/16, 1980.
2. Davies, K.J.A. Mitochondrial Biogenesis and Exercise Energetics (oral presentation) American College of Sports Medicine, Miami, Florida, 5/27-5/29, 1981.
3. Davies, K.J.A. Iron Sulfur Proteins and Mitochondrial Bioenergetics (poster presentation) Fifth International Conference on Proteins of Iron Transport and Storage, La Jolla, California, 8/23-8/27, 1981.
4. Davies, K.J.A. Exercise Bioenergetics During Dietary Iron Deficiency and Depletion (poster presentation) Fifth International Conference on Proteins of Iron Transport and Storage, La Jolla, California, 8/23-8/27, 1981.
5. Davies, K.J.A. Effects of Iron Deficiency and Blood Transfusion on the Bioenergetics of Exercise (poster presentation) American Physiological Society 32nd Annual Meeting, Cincinnati, Ohio, 10/11-10/16, 1981.
6. Davies, K.J.A. Identification of Ubisemiquinone as the Endogenous EPR Free-Radical Signal of Intact Tissues (oral presentation, session chairperson) Federation of American Societies for Experimental Biology 66th Annual Meeting, New Orleans, Louisiana, 4/15-4/23, 1982.
7. Davies, K.J.A. Mitochondrial Lipid Peroxidation and Exercise (oral presentation, invited speaker) Gordon Conference: Food and Nutrition, New London, New Hampshire, 8/9-8/13, 1982.
8. Davies, K.J.A. Mitochondrial and Microsomal Reduction of Anthracyclines: Oxygen Radical Production at the Expense of ATP (poster presentation) Third International Conference on Superoxide and Superoxide Dismutase, Ellenville, New York, 10/3-10/8, 1982.
9. Davies, K.J.A. Oxy-Radical Production and Cardiotoxicity of Anthracyclines Catalyzed by Mitochondrial NADH Dehydrogenase (poster presentation) Gordon Conference: The Role of Oxygen Radicals in Biology and Medicine, Ventura, California, 2/7-2/11, 1983.
10. Davies, K.J.A. Free-Radical Generating Systems Induce Protein Degradation and Lipid Peroxidation by Distinct Mechanisms in Red Blood Cells (poster presentation) American Society of Biological Chemists 74th Annual Meeting, San Francisco, California, 6/5-6/9, 1983.
11. Davies, K.J.A. Proteins Damaged by Hydroxyl Radicals can be Recognized and Degraded by Erythrocyte and Reticulocyte Proteolytic Systems (poster presentation) Federation of American Societies for Experimental Biology 68th Annual Meeting, St. Louis Missouri, 4/1-4/6, 1984.
12. Davies, K.J.A. Protein Damage Induced by Oxygen Radicals (poster presentation) American Society of Biological Chemists 75th Annual Meeting, St. Louis, Missouri, 6/3-6/7, 1984.
13. Davies, K.J.A. Oxygen Radicals & Protein Turnover (oral presentation, invited speaker) Society for Free Radical Research 2nd. Annual Meeting (Free Radicals in Chemistry & Biology) University of York, England, 7/4-7/6, 1984.
14. Davies, K.J.A. Free Radicals, Protein Turnover, and Ageing (oral presentation, invited speaker) Cellular and Molecular Aspects of Ageing: The Red Cell as a Model, Minneapolis, Minnesota, 9/8-9/11, 1984.
15. Davies, K.J.A. Free-Radicals, Protein Modification, and Protein Turnover (oral presentation, invited speaker) Gordon Conference: Oxy- Radicals in Biology and Medicine, Santa Barbara, California, 2/10-2/15, 1985.
16. Davies, K.J.A. Free Radicals and Protein Degradation in Human Erythrocytes (oral presentation, symposium organizer and chairperson) Federation of American Societies for Experimental Biology 69th Annual Meeting: "Protein Metabolism", Anaheim, California, 4/21-4/26, 1985.
17. Davies, K.J.A. General Aspects of Protein Damage by Oxygen Radicals (poster presentation) Federation of American Societies for Experimental Biology 69th Annual Meeting, Anaheim, California, 4/21-4/26, 1985.
18. Davies, K.J.A. Free Radicals, Protein Damage, and Protein Degradation (oral presentation, invited speaker) 4th International Conference on Superoxide and Superoxide Dismutase, Rome, Italy, 9/1-9/6, 1985.
19. Davies, K.J.A. Oxygen Radicals and Protein Turnover (oral presentation, invited speaker) Council for Tobacco Research Conference on Oxygen Radicals, New York, New York, 9/30-10/1, 1985.
20. Davies, K.J.A. Mitochondrial Bioenergetics and Pathology (oral presentation, invited speaker) The "Upjohn Lecture", Huntington Memorial Hospital, Pasadena, California, 11/21, 1985.
21. Davies, K.J.A. Protein Oxidation and Protein Degradation (oral presentation, invited speaker) 1st Annual UCLA/USC Conference on Oxygen Radicals, LA, CA, 1/9, 1986.
22. McKenna, S.M. and Davies, K.J.A. HOCl Kills Bugs (oral presentation, invited speaker) The Phagocyte Workshop, Washington, D.C., 5/2, 1986.

23. Davies, K.J.A. Independence of Protein Degradation and Lipid Peroxidation During Oxidative Stress (oral presentation, invited speaker) Lipid Peroxidation Conference: 77th Annual Meeting of The American Oil Chemists Society, Honolulu, Hawaii, 5/14-5/18, 1986.
24. Zhang, Y. and Davies, K.J.A. Hydroxyl Radicals Modify Amino Acids and Prevent *E. coli* Growth (poster presentation) American Society of Biological Chemists 76th Annual Meeting, Washington, D.C., 6/8-6/12, 1986.
25. Davies, K.J.A. and Lin, S.W. *E. coli* Proteases Selectively Degrade Oxidized Proteins (poster presentation) American Society of Biological Chemists 76th Annual Meeting, Washington, D.C., 6/8-6/12, 1986.
26. McKenna, S.M. and Davies, K.J.A. Inhibition of Protein Synthesis May Explain the Bactericidal Properties of Hypochlorous Acid Produced by Phagocytic Cells (poster presentation) American Society of Biological Chemists 76th Annual Meeting, Washington, D.C., 6/8-6/12, 1986.
27. Davies, K.J.A. The Physiology of Free Radicals (oral presentation, invited speaker) Physiology of FreeRadicals Conference: International Union of Physiological Sciences (IUPS) Congress, Vancouver, Canada, 7/13- 7/18, 1986.
28. Davies, K.J.A. Physiology and Pathology of Free Radicals (oral presentation, invited speaker) The “Upjohn Lecture”, Huntington Memorial Hospital, Pasadena, California, 8/21, 1986.
29. Davies, J.M.S., Horwitz, D.A., and Davies, K.J.A. Collagen Fragmentation & Degradation by Hypochlorous Acid, N-chloroamines, & Collagenase (oral presentation, invited speaker) Annual Meeting of The American Rheumatism Association, Vancouver, Canada, 11/13-11/15, 1986.
30. Davies, K.J.A. Possible Role of Oxidative Protein Turnover in Cardiovascular Diseases (oral presentation, invited speaker) The Role of Oxygen Radicals in Cardiovascular Diseases, Asolo, Italy, 12/2-12/5, 1986.
31. McKenna, S.M. and Davies, K.J.A. Bacterial Killing by Oxidative Products of Neutrophils (poster presentation) Gordon Conference on Oxy Radicals in Biology & Medicine, Santa Barbara, CA, 2/8-2/13, 1987.
32. McKenna, S.M. and Davies, K.J.A. Inhibition of DNA Replication by HOCl may Model the Bactericidal Activity of Phagocytes (poster presentation) Federation of American Societies for Experimental Biology 71st Annual Meeting, Washington, D.C., 3/29-4/4, 1987.
33. McKenna, S.M. and Davies, K.J.A. Inhibition of *E. coli* DNA Synthesis by HOCl may Model the Bactericidal Activity of Phagocytes (poster presentation) The Society for *Pediatric Research* Annual Meeting, Anaheim, CA, 4/27-4/30, 1987.
34. Davies, J.M.S., Horwitz, D.A., and Davies, K.J.A. A Possible Model for Collagen Breakdown by Hypochlorous Acid in Synovitis (oral presentation, invited speaker) Annual Meeting of The American Rheumatism Association, Washington, D.C., 6/13-6/15, 1987.
35. Davies, K.J.A. Intracellular Proteolytic Systems as Secondary Antioxidant Defenses (oral presentation, invited speaker) 4th International Conference on Oxygen Radicals, San Diego, CA, 6/27-7/3, 1987.
36. Davies, J.M.S., Horwitz, D.A., and Davies, K.J.A. Collagen Fragmentation & Degradation by Hypochlorous Acid, N-chloroamines, & Collagenase (poster presentation) UCLA/USC Colloquium on Oxygen, UCLA, CA, 7/8, 1987.
37. McKenna, S.M. and Davies, K.J.A. Inhibition of DNA Replication by HOCl may Model the Bactericidal Activity of Phagocytes (poster presentation) UCLA/USC Colloquium on Oxygen, UCLA, CA, 7/8, 1987.
38. Davies, K.J.A. Protein Oxidation and Protease Activity As Modulators of Protein Cross-Linking (oral presentation, invited speaker) International Symposium on Lipofuscin, Debrecen, Hungary, 8/26-8/30, 1987.
39. Zhang, Y., Marcillat, O., and Davies, K.J.A. Inhibition of mitochondrial electron transport by active oxygen species (poster presentation) Federation of American Societies for Experimental Biology 72nd Annual Meeting, Las Vegas, Nevada, 5/1-5/5, 1988.
40. Marcillat, O., Zhang, Y., and Davies, K.J.A. Mitochondrial inactivation by doxorubicin: oxidative and non-oxidative mechanisms. (poster presentation) Federation of American Societies for Experimental Biology 72nd Annual Meeting, Las Vegas, Nevada, 5/1-5/5, 1988.
41. Lin, S.W., Marcillat, O., Zhang, Y., and Davies, K.J.A. A mitochondrial proteolytic activity that preferentially degrades oxidatively damaged proteins. (poster presentation) Federation of American Societies for Experimental Biology 72nd Annual Meeting, Las Vegas, Nevada, 5/1-5/5, 1988.
42. Pacifici, R.E. and Davies, K.J.A. A 700-kDa red cell proteinase which selectively degrades oxidatively denatured hemoglobin (poster presentation) Federation of American Societies for Experimental Biology 72nd Annual Meeting, Las Vegas, Nevada, 5/1-5/5, 1988.

43. Salo, D.C., Lin, S.W., Pacifici, R.E., and Davies, K.J.A. H₂O₂ modified superoxide dismutase is preferentially degraded by an ATP-independent proteolytic system from red cells. (poster presentation) Federation of American Societies for Experimental Biology 72nd Annual Meeting, Las Vegas, Nevada, 5/1-5/5, 1988.
44. Davies, K.J.A., Lin, S.W., and Pacifici, R.E. Degradation of oxidatively denatured proteins by *E. coli* proteases. (poster presentation) Federation of American Societies for Experimental Biology 72nd Annual Meeting, Las Vegas, Nevada, 5/1-5/5, 1988.
45. Davies, K.J.A. Molecular mechanisms of oxidative damage and repair (oral presentation, invited speaker) *Mechanismi Molecolari dell'Invecchiamento: Ruolo dei Lipidi Alimentari*, Lucca, Italy, 5/27-5/28, 1988.
46. Davies, K.J.A. Primary and secondary antioxidant defenses (oral presentation, invited speaker) Fourth International Congress of Cell Biology, Montreal, Canada, 8/14-8/19, 1988.
47. Davies, K.J.A. Protein oxidation and diminished proteolytic activity in cataract formation (invited speaker) *Free Radicals in Medicine: Current Status of Antioxidant Therapy*, Paris, France, 12/9-12/13, 1988.
48. Pacifici, R.E. and Davies, K.J.A. Macroxyproteinase (M.O.P.): A 670-kDa proteinase that selectively degrades oxidatively denatured proteins (poster presentation) Gordon Conference on Oxy Radicals in Biology & Medicine, Ventura, California, 2/5-2/10, 1989.
49. Davies, K.J.A. Aging and the Repair of Oxidative Damage (oral presentation, invited speaker) *Molecular Biology of Aging: UCLA Symposia on Molecular and Cellular Biology*, Santa Fe, New Mexico, 3/4-3/10, 1989.
50. Davies, K.J.A. Redox Cycling of Quinones: Mechanisms, Damage, and Repair (oral presentation, invited speaker) *Bio-reductive Activation of Quinoid Compounds: Chemical, Biochemical, and Toxicological Aspects* (organized by the Nobel Institute for Chemistry of the Royal Swedish Academy of Sciences, the Nobel Assembly of the Karolinska Institute, and the European Society for Free Radical Research) Stockholm, Sweden, 6/18-6/21, 1989.
51. Davies, K.J.A. Molecular Mechanisms of Repair (oral presentation, invited speaker) *Regulation of Free Radical Reactions (Biomedical Aspects): Bulgarian Academy of Sciences/European Society for Free Radical Research*, Varna, Bulgaria, 9/13-9/17, 1989.
52. Davies, K.J.A. An Overview of Repair Systems (oral presentation, session chairman) Fifth International Conference on Superoxide and Superoxide Dismutase, Jerusalem, Israel, 9/17-9/22, 1989.
53. Davies, K.J.A. The Repair of Oxidative Damage (oral presentation, invited speaker) *Free Radicals and Cancer*, Oxford University, Oxford, England, 9/23-9/25, 1989.
54. Davies, K.J.A. Protein, Lipid, and DNA Repair Following Oxidative Stress (oral presentation, invited speaker) *International Symposium on Biological Oxidation Systems*, Bangalore, India, 10/23-10/26, 1989.
55. Davies, K.J.A. Repair Systems in Oxidative Stress (oral presentation, invited speaker) 6th Congress of the Pan American Academy of Biochemical Societies, Sao Paulo, Brazil, 2/18-2/22, 1990.
56. Davies, K.J.A. Repair Systems in Oxidative Stress (oral presentation, invited speaker) *Oxygen Toxicity: Biochemistry, Physiology, and Pathology* (an ICRO-UNESCO Training Course) Buenos Aires, Argentina, 2/26-3/8, 1990.
57. Davies, K.J.A. Protein, Lipid, and DNA Repair in Oxidative Stress (oral presentation, invited speaker) *International Symposium on Oxygen Toxicity* (organized by the International Union of Biochemistry, 3rd World Academy of Science, Argentine Society for Biochemical Research, Argentine Society of Biophysics, Argentine National Research Council, Latin American Academy of Science) Buenos Aires, Argentina, 3/8-3/10, 1990.
58. Davies, K.J.A. Protein Degradation and Repair (oral presentation, invited speaker) 34th Harden Conference: *Free Radicals, Cell Growth, Disease, and Repair Mechanisms*, Wye College, Ashford (Kent), England, 9/2-9/7, 1990.
59. Giulivi, C. and Davies, K.J.A. An Antioxidant Role for Hemoglobin. (oral presentation, invited speaker) *Oxidative Damage and Repair: 5th Biennial Meeting of the International Society for Free Radical Research*, Pasadena, California, 11/14-11/20, 1990
60. Pacifici, R.E. and Davies. Selective Proteolysis of Oxidatively Modified Proteins by Macroxyproteinase (MOP). (oral presentation, invited speaker) *Oxidative Damage and Repair: 5th Biennial Meeting of the International Society for Free Radical Research*, Pasadena, California, 11/14-11/20, 1990
61. Lin, S.W. and Davies, K.J.A. On the Regulation of Gene Expression During *Escherichia coli* Adaptation to Hydrogen Peroxide (poster presentation) *Oxidative Damage and Repair: 5th Biennial Meeting of the International Society for Free Radical Research*, Pasadena, California, 11/14-11/20, 1990

62. Salo, D.C., Donovan, C.M., and Davies, K.J.A. Induction of HSP70 and other Heat Shock or Oxidative Stress Proteins During Exercise (poster presentation) Oxidative Damage and Repair: 5th Biennial Meeting of the International Society for Free Radical Research, Pasadena, California, 11/14-11/20, 1990
63. Wiese, A.G., Pacifici, R.E. and Davies, K.J.A. Adaptive Responses to Hydrogen Peroxide in Mammalian Cells (poster presentation) Oxidative Damage and Repair: 5th Biennial Meeting of the International Society for Free Radical Research, Pasadena, California, 11/14-11/20, 1990
64. Davies, K.J.A. Repair Strategies and Induction of Repair Systems in Oxidative Stress (oral presentation, invited speaker) Oxidative Damage to DNA and DNA Repair Enzymes, Institut Gustave Roussy, Villejuif (Paris), France, 12/13-12/14, 1990.
65. Davies, K.J.A. Repair Systems for Oxidative Damage (oral presentation, plenary speaker and session chair) International Society for Pathophysiology, Moscow, Russia, U.S.S.R., 5/28-6/1, 1991.
66. Davies, K.J.A. Protein Modification and Protein Degradation During Oxidative Stress (oral presentation, invited speaker) Stability of Proteins (Table Ronde No. 69 of the Institut Scientifique Roussel), Palais de Congrès-Versailles, France, 6/13-6/14, 1991.
67. Davies, K.J.A. Repair Mechanisms and the Aging Process (oral presentation, invited speaker) Free Radicals and Aging (SFRR Europe meeting) University of Paris, Paris, France, 6/26-6/28, 1991.
68. Davies, K.J.A. Repair Systems and Oxidative Stress (oral presentation, invited speaker) the 4th Chemical Congress of North America, and 202nd National Meeting of the American Chemical Society, New York, N.Y., 7/25-7/30, 1991.
69. Davies, K.J.A. Free Radical Cross-Linking of Proteins and the Role of Proteolytic Enzymes (oral presentation, invited speaker) 2nd International Congress on Amino Acids and Analogues, Vienna, Austria, 8/5-8/9, 1991.
70. Davies, K.J.A. Repair Mechanisms in Oxidative Stress: The Free Radical Theory of Aging Revisited (oral presentation, keynote speaker) 2nd Rooibos International Symposium on Nutrition and Human Health, Tokyo, Japan, 8/29-9/02, 1991.
71. Davies, K.J.A. Defense and Repair Systems in Oxidative Stress (oral presentation, keynote speaker) Molecular and Cellular Responses to Oxygen (the 1991 Albany Conference) Albany, New York, 9/12-9/15, 1991.
72. Davies, K.J.A. Repair Systems in Oxidative Stress (oral presentation, invited speaker) 3rd International Symposium on Orthomolecular Medicine, São Paulo, Brazil, 9/20-9/21, 1991.
73. Davies, K.J.A. Defense and Repair Systems in Oxidative Stress (oral presentation, invited speaker) Active Oxygen, Lipid Peroxides, and Antioxidants (5th International Congress on Oxygen Radicals) Kyoto, Japan, 11/17-11/21, 1991.
74. Davies, K.J.A. Free Radical Biology (oral presentation, invited speaker) Annual Chairman's Meeting: American Medical and Graduate Departments of Biochemistry, St. Thomas, Virgin Islands, 1/15-1/18, 1992.
75. Davies, K.J.A. Oxidant Regulation of Gene Expression (oral presentation, invited speaker) Gordon Conference on Oxygen Radicals in Biology, Ventura, California, 2/3-2/7, 1992.
76. Davies, K.J.A. Regulation of Gene Expression in Oxidative Stress (oral presentation, invited speaker) Biological Oxidants and Antioxidants (1st joint meeting of the Bay Area Oxygen Club and the USC Institute for Toxicology) University of California, Berkeley, California, 4/3-4/4, 1992.
77. Davies, J.M.S., Horwitz, D.A., and Davies, K.J.A. Collagen Breakdown by Hypochlorous Acid and *N*-Chloroamines: Possible Role in Synovitis (oral presentation, invited speaker) Free Radicals: From Basic Science to Medicine (6th Biennial Meeting, International Society for Free Radical Research) Torino, Italy, 6/16-6/20, 1992
78. Davies, K.J.A. Regulation of Gene Expression in Oxidative Stress (oral presentation, invited speaker, session chairman) Free Radicals: From Basic Science to Medicine (6th Biennial Meeting of the International Society for Free Radical Research) Torino, Italy, 6/16-6/20, 1992
79. Davies, K.J.A. Foods and Oxidation (oral presentation, session chairman) Free Radicals in Nutrition, Cagliari, Italy, 6/22-6/25, 1992.
80. Davies, K.J.A. Protein Modification by Oxidants (oral presentation, invited speaker) 645th Meeting of The Biochemical Society, Royal Free Hospital School of Medicine, London, England, 12/15-12/18, 1992
81. Davies, K.J.A. Gene Expression and DNA Repair in Oxidative Stress (oral presentation, invited speaker) Critical Aspects of Free Radicals in Chemistry, Biochemistry, and Medicine, 2/14-2/17, 1993.
82. Davies, K.J.A. Molecular Biology of Oxidants and Antioxidants (oral presentation, session chair) Biological Oxidants and Antioxidants: New Developments in Research, and Health Effects (2nd Joint Meeting of the USC Institute for Toxicology and the Bay Area Oxygen Club), Pasadena, California, 3/12-3/13, 1993.

83. Davies, K.J.A. Protein Oxidation and Proteolysis in Aging (oral presentation, invited speaker, session chairman) Keystone Symposium: Molecular Biology of Aging, Lake Tahoe, California, 3/19-3/25, 1993.
84. Davies, K.J.A. The Role of Protein Oxidation and Proteasome in Antigen Processing (oral presentation, invited speaker) Oxidative Stress, Cell Activation & Viral Infection (SFRR, Europe), University of Paris, Paris, France, 3/25-3/26, 1993.
85. Davies, K.J.A. Regulation of Gene Expression During Exercise (oral presentation, invited speaker) International Meeting on Free Radicals and Antioxidants in Exercise (SFRR Europe) University of Valencia, Valencia, Spain, 5/19-5/20, 1993.
86. Davies, J.M.S., Yelich, L.L., Lowry, C.V., and Davies, K.J.A. (1993) Adaptive response to oxidative stress in yeast. (oral presentation, invited speaker) Pathophysiology of the Prooxidant/Antioxidant Balance: Molecular Basis of Medical Application (SFRR Europe), Siena, Italy, 6/24-6/26, 1993.
87. Davies, K.J.A. The Regulation of Gene Expression as a Universal Mechanism of Adaptation to Oxidative Stress (oral presentation, invited speaker) Pathophysiology of the Prooxidant/Antioxidant Balance: Molecular Basis of Medical Application (SFRR Europe), Siena, Italy, 6/24-6/26, 1993.
88. Davies, K.J.A. Invited Discussant at the FALS-SOD Workshop of the ALS Association, 6/30-7/1, 1993, Cambridge, Massachusetts.
89. Davies, K.J.A. Adaptation to Oxidative Stress (oral presentation, invited speaker) Oxygen Radicals & Lung Injury Conference, Morgantown, West Virginia, 8/30-9/2, 1993.
90. Davies, K.J.A. Regulation of Gene Expression During Oxidative Stress (oral presentation, invited keynote speaker) The 4th International Symposium on Orthomolecular Medicine, São Paulo, Brazil, 9/16-9/17, 1993
91. Davies, K.J.A. Free Radical Pathways, Antioxidant Protection, and Repair (oral presentation, invited keynote speaker) International Symposium on Free Radicals in Diagnostic Medicine, Buffalo, New York, 10/7-10/9, 1993.
92. Davies, J.M.S., Yelich, L.L., Lowry, C.V., and Davies, K.J.A. (poster presentation) Adaption to Oxidative Stress in Yeast. VIth International Conference on Superoxide and Superoxide Dismutase, Kyoto, Japan, 10/11-10/15, 1993.
93. Davies, K.J.A. Degradation of Oxidatively Modified Proteins by Proteasome (oral presentation, invited speaker, session chair) VIth International Conference on Superoxide and Superoxide Dismutase, Kyoto, Japan, 10/11-10/15, 1993.
94. Davies, J.M.S., Yelich, L.L., Lowry, C.V., and Davies, K.J.A. (poster presentation) Adaptation of Yeast to Hydrogen Peroxide Stress. Oxygen '93: 1993 Annual Meeting of the Oxygen Society, Charleston, South Carolina, 11/12-11/17, 1993.
95. Crawford, D.R., Edbauer-Nechamen, C., Schools, G.P., Salmon, S.L., and Davies, K.J.A. (oral presentation, invited speaker) Oxidant-modulated gene expression in hamster HA-1 cells. Oxygen '93: 1993 Annual Meeting of the Oxygen Society, Charleston, South Carolina, 11/12-11/17, 1993.
96. Davies, K.J.A. Regulation of Gene Expression During Oxidative Stress (invited plenary lecturer and session chair) Oxygen Radicals and Antioxidants in Biotechnology and Medicine, Calcutta, India, 12/5-12/8, 1993.
97. Davies, K.J.A. Oxidative Stress (oral presentation, invited speaker) Annual Chairs meeting of the Association of Medical and Graduate Departments of Biochemistry, San Jose, Costa Rica, 1/12-1/15, 1994.
98. Davies, K.J.A. Regulation of Gene Expression by Oxygen and Reactive Oxygen Species (oral presentation, invited speaker and session chair) Oxidants & Antioxidants in Biology: New Developments in Research and Health Effects, Pasadena, California, 2/4-2/5, 1994.
99. Davies, K.J.A. Oxidative Stress and the Free Radical Theory of Aging Revisited (oral presentation, invited speaker and session chair) First International Conference on Oxidative Stress and Aging, Kona, Hawaii, 3/22-3/26, 1994.
100. Davies, J.M.S., Yelich, L.L., Lowry, C.V., and Davies, K.J.A. Molecular Basis of Adaptation to Oxidative Stress in Yeast. (poster presentation) First International Conference on Oxidative Stress and Aging, Kona, Hawaii, 3/22-3/26, 1994.
101. Davies, K.J.A. The Regulation of Gene Expression as a Universal Mechanism of Adaptation to Oxidative Stress (oral presentation, invited speaker) Molecular and Cellular Mechanisms of Toxicity: 13th Penn State Summer Symposium in Molecular Biology, Penn State University, University Park, PA, 8/3-8/5, 1994.
102. Davies, K.J.A. Regulation of Gene Expression in Oxidative Stress (oral presentation, invited speaker) UNESCO/COTSAM/SFRR Asia Workshop on Nutrition, Lipids, Health and Disease, Penang, Malaysia, 9/1-9/3, 1994.

103. Davies, K.J.A. Recognition of Hydrophobic Patches in Oxidatively Modified Proteins by Proteasome (oral presentation, invited speaker) 16th International Congress of Biochemistry & Molecular Biology (IUBMB), New Delhi, India, 9/19-9/22, 1994.
104. Davies, K.J.A. Recognition of Hydrophobic Patches in Oxidatively Modified Proteins by Proteasome (oral presentation, invited plenary speaker) Molecular Mechanisms of Enzyme Action, Department of Biochemistry, Indian Institute of Science, Bangalore, India, 9/23-9/25, 1994.
105. Grune, T., Reinheckel, T., and Davies, K.J.A. Proteasome Degrades Oxidized Proteins in Rat Liver Epithelial Cells (poster presentation) the 10th International Conference on Intracellular Protein Catabolism (ICOP), Tokyo, Japan, 10/30-11/4, 1994.
106. Davies, K.J.A., Crawford, D., Davies, J.M.S., Lowry, C. Regulation of Gene Expression During Cell Adaptation to Oxidative Stress (oral presentation, invited speaker and session chair) 7th Biennial Meeting of the International Society for Free Radical Research, Sydney, Australia, 11/6-11/10, 1994
107. Grune, T., Reinheckel, T., and Davies, K.J.A. Proteasome Degrades Oxidized Proteins in Rat Liver Epithelial Cells (oral presentation, selected speaker) 7th Biennial Meeting of the International Society for Free Radical Research, Sydney, Australia, 11/6-11/10, 1994
108. Reinheckel, T., Grune, T., Talbot, M.A., and Davies, K.J.A. Proteasome Degrades Oxidized Proteins in Human Hematopoietic Cells (poster presentation) 7th Biennial Meeting of the International Society for Free Radical Research, Sydney, Australia, 11/6-11/10, 1994
109. Davies, K.J.A. Biology of Oxidative Stress: Antioxidant Defense and Repair Systems (oral presentation, invited plenary speaker) 47th Annual Scientific Meeting of the Gerontological Society of America, Atlanta, Georgia, 11/18-11/22, 1994.
110. Davies, J.M.S. and Davies, K.J.A. Adaptation to Oxidative Stress in *S. Cerevisiae*. (poster presentation) 653rd Meeting of the Biochemical Society, Sussex University, Brighton, England, 12/13-12/16, 1994.
111. Davies, K.J.A. Oxidative Stress and the Oxygen Paradox (oral presentation, invited plenary speaker) 653rd Meeting of the Biochemical Society, Sussex University, Brighton, England, 12/13-12/16, 1994.
112. Davies, K.J.A. Proteins, Oxidation, and Proteolysis (oral presentation, invited plenary speaker) Electron Transfer: from Energy Coupling to Aging, a symposium in honor of Lester Packer, San Francisco, California, 3/21-3/22, 1995
113. Davies, K.J.A. The Regulation of Gene Expression as a Universal Mechanism of Adaptation During Oxidative Stress (oral presentation, invited speaker) Oxidants and Antioxidants in Biology, 1995 Annual Meeting of the Oxygen Club of California, San Francisco, California, 3/22-3/24, 1995
114. Davies, K.J.A. Gene Expression During Adaptation to Oxidative Stress is a Coordinated, Pleiotropic Process. (oral presentation, invited speaker) International Symposium on Natural Antioxidants: Molecular Mechanisms and Health Effects, Beijing, China, 6/20-6/24, 1995
115. Davies, K.J.A. Altered Gene Expression During Adaptation to Oxidative Stress is a Universal, Coordinated, Pleiotropic Process (oral presentation, invited plenary speaker and session chair) International Society for Free Radical Research 1995 Summer Meeting, Budapest, Hungary, 7/27-7/29, 1995
116. Davies, J.M.S. and Davies, K.J.A. Adaptive Responses to Oxidative Stress in Yeast (oral presentation, invited speaker) International Society for Free Radical Research 1995 Summer Meeting, Budapest, Hungary, 7/27-7/29, 1995
117. Davies, K.J.A. Gene Expression During Adaptation to Oxidative Stress is a Highly Coordinated and Pleiotropic Process (oral presentation, plenary speaker) International Congress on Free Radicals in Health and Disease. Istanbul, Turkey, 9/6-9/10, 1995
118. Crawford, D.R., Schools, G.P., Wang, Y., Kochheiser, J., and Davies, K.J.A. Modulation of Mammalian Gene Expression by Oxidative Stress (poster presentation) Antioxidant Nutrients in the Cellular Biology of Health and Disease, FASEB Summer Conference, Saxtons River, Vermont, 9/12-9/17, 1995
119. Melendez, J.A. and Davies, K.J.A. Overexpression of Manganese Superoxide Dismutase (MnSOD) Reduces the Expression of the Endogenous MnSOD mRNA and Interleukin 1 α mRNA in Response to Tumor Necrosis Factor (oral presentation, selected speaker) Antioxidant Nutrients in the Cellular Biology of Health and Disease, FASEB Summer Conference, Saxtons River, Vermont, 9/12-9/17, 1995
120. Grune, T., Reinheckel, T., and Davies, K.J.A. Degradation of Oxidized Proteins in Mammalian Cells (poster presentation, plenary session chair) "Oxygen '95," Annual Meeting of the Oxygen Society, Pasadena, California, 11/16-11/20, 1995

121. Davies, K.J.A. Coordinate Regulation of Gene Expression in the Adaptive Response to Oxidative Stress (plenary speaker, session chair) IV World Congress of the International Society for Adaptive Medicine, Chandigarh, India, 12/9-12/12, 1995
122. Davies, K.J.A. Coordinate Regulation of Gene Expression in the Adaptive Response to Oxidative Stress (plenary speaker, session chair) Myocardial Preservation and Cellular Adaptation Symposium, Madras, India, 12/14-12/16, 1995
123. Melendez, J.A., Melathe, R.P., and Davies, K.J.A. Manganese Superoxide Dismutase (MnSOD) Overexpression Modulates the Basal and TNF-induced Interleukin-1 α Levels (poster presentation) 1996 Keystone Symposium, 'Oxidative Stress: From Molecules to Man,' Santa Fe, New Mexico, 1/8-1/14, 1996
124. Davies, K.J.A. Expression of Growth-Arrest Genes During Adaptation to Oxidative Stress (invited speaker, session chair) 1996 Oxygen Club of California Meeting, Santa Barbara, California, 2/8-2/10, 1996
125. Davies, K.J.A. Relationship of Oxidative Stress to Mitogenesis, Growth-Arrest, Apoptosis, and Necrosis. (Oral presentation, invited plenary speaker) 'Oxidative Stress and Redox Regulation,' Paris, France, 5/21-5/14, 1996.
126. Davies, K.J.A. Mitogenesis, growth-arrest, apoptosis, & necrosis in oxidative stress (Oral presentation, plenary speaker) '8th Biennial Meeting of the International Society for Free Radical Research,' Barcelona, Spain, 10/1-10/5, 1996.
127. Davies, K.J.A. Selective degradation/down regulation of mitochondrial rRNA's, mRNA's, and DNA during apoptosis. (Oral presentation, invited plenary speaker) 'Oxygen Club of California 1997 Annual Meeting', Santa Barbara, California, 2/26-3/1, 1997.
128. Davies, K.J.A. Adaptive Responses to Oxidative Stress: Gene Regulation (Oral presentation, invited speaker) 45th Annual Meeting of the Radiation Research Society, Providence, Rhode Island, 5/3-5/7, 1997.
129. Davies, K.J.A. Regulation of Gene Expression in Response to Oxidative Stress (Oral presentation, Invited speaker and Session chair) NATO/FEBS Meeting - Free Radicals, Oxidative Stress, and Antioxidants: Pathological & Physiological Significance, Antalya, Turkey, 5/24 - 6/4, 1997.
130. Davies, K.J.A. Free Radicals, Oxidative Stress and Aging (Oral presentation, invited speaker) Buck Center Summer Institute Training Course in the Biology of Aging, Novato, CA, 6/8-6/12, 1997.
131. Davies, K.J.A. Protein Oxidation & Proteolysis in Response to Oxidative Stress (Oral presentation, Invited speaker) NATO/FEBS Meeting - Free Radicals, Oxidative Stress, and Antioxidants: Pathological & Physiological Significance., Antalya, Turkey, 5/24 - 6/4, 1997.
132. Davies, K.J.A. The Oxygen Paradox: Molecular Repair Mechanisms During Oxidative Stress (Oral presentation, Invited speaker/Awardee) Torino Academy of Medicine, Torino, Italy, 6/25, 1997.
133. Davies, K.J.A. (Oral presentation, Invited speaker) Degradation of Mitochondrial rRNA and mRNA is an Early Event in Apoptosis. 1997 SFRR Europe Summer Meeting, Abano Terme, Italy, 6/26 - 6/28, 1997.
134. Davies, K.J.A. Redox Modulation of Cell Proliferation & Cell Death (Oral presentation, Invited speaker). 6th European ISSX Meeting, Gothenburg, Sweden 6/30 - 7/3, 1997.
135. Davies, K.J.A. Degradation of Oxidatively Modified Proteins by the Proteasome. (Oral presentation, Keynote Speaker) 5th International Congress on Amino Acids, Chalkidiki, Greece, 9/25-9/29, 1997.
136. Davies, K.J.A. Oxidative Stress: The Paradox of Aerobic Life. Kelvin J. A. Davies (Oral presentation, Invited speaker) Unilever International Symposium on 'Antioxidants & Health,' Colworth House, Bedfordshire, UK, 12/17-12/19, 1997.
137. Davies, K.J.A. Redox Modulation of Cell Proliferation & Cell Death (Oral presentation, invited speaker, session chair for 'Redox Regulation of Cell Signaling,' Oxygen Club of California 1998 Annual Meeting', Santa Barbara, California, 2/5-2/8, 1998.
138. Davies, K.J.A. Adaptive Responses to Oxidative Stress: Gene Regulation (Oral presentation, invited speaker) Gordon Conference on Oxygen Radicals in Biology, Ventura, California, 2/9-2/13, 1998.
139. Davies, K.J.A. Protein Degradation and Recycling in Neurodegenerative Diseases (Oral presentation, invited speaker) . ALS Society Conference on 'Superoxide Dismutase and Motor Neuron Disease,' Banbury Center, Cold Spring Harbor, New York, 2/22-2/25, 1998.
140. Davies, K.J.A. Degradation of Mitochondrial rRNA and mRNA Transcription, Translation, and Turnover During Oxidant Induced Apoptosis (Oral presentation, Invited speaker, Session Chair for 'Molecular Mechanisms II.' 1st Middle East Regional Meeting on Medical Sciences: 'The Role of Free Radicals in Health & Disease.' Jerusalem, Israel 3/22-3/26, 1998 and Amman, Jordan, 3/26-3/28, 1998.

141. Davies, K.J.A. Adaptive Responses to Oxidative Stress: Gene Regulation (Oral presentation, invited speaker) SFRR Europe Conference on 'Regulation of Biological Processes by Free Radicals: Role of Antioxidants, Free Radical Scavengers, and Chelators.' 5/10-5/13, 1998, Moscow-Yaroslav, Russia.
142. Davies, K.J.A. Antioxidant Defense & Repair Systems (Oral presentation, invited speaker) International Coenzyme Q10 Association - 3rd Annual Meeting, 5/21-5/24, 1998, Boston, Massachusetts.
143. Davies, K.J.A. Molecular & Cellular Criteria for Rates of Cellular Aging (Oral presentation, invited speaker) 2nd Workshop on Organisms with Negligible Senescence, Univ. of Southern California, Los Angeles, 6/1-6/2, 1998.
144. Davies, K.J.A. Aging, from Molecular Mechanisms to Clinical Therapeutics (Oral presentation, invited plenary speaker) IX Biennial Meeting of the International Society for Free Radical Research, São Paulo, Brazil, 9/7-9/11, 1998.
145. Davies, K.J.A. Degradation of Mitochondrial rRNA and mRNA Transcription, Translation, and Turnover During Oxidant Induced Apoptosis (Oral presentation, Invited speaker), Conference on 'Oxidant & Antioxidant Signaling in Cellular Responses,' Iguazu, Argentina, 9/12-9/14, 1998.
146. Davies, K.J.A. Antioxidant Defense & Repair Systems (Oral presentation, invited speaker) 5th International Union of Biochemistry & Molecular Biology Conference, Jerusalem, Israel, 10/18-10/22, 1998.
147. Davies, K.J.A. Oxidant Induced Apoptosis (Oral presentation, invited speaker, session chair for 'Redox Regulation of Signal Transduction & Gene Expression') 5th Annual Oxygen Society Meeting, Washington, D.C., 11/17-11/23, 1998.
148. Shringarpure, R. and Davies, K.J.A. Alzheimer's amyloid- β (A β) peptide inhibits the 20S proteasome (poster presentation). Oxygen Club of California 1999 World Congress, Santa Barbara, CA., March 3-6, 1999.
149. Sitte, N., von Zglinicki, T., Huber, M., Davies, K.J.A., and Grune, T. Lipofuscin inhibits the proteolytic activity of the 20S proteasome during the aging of fibroblasts. (poster presentation). Oxygen Club of California 1999 World Congress, Santa Barbara, CA., March 3-6, 1999.
150. Demasi, M. and Davies, K.J.A. Accumulation, aggregation, and precipitation of oxidatively modified proteins during proteasome inhibition. (poster presentation). Oxygen Club of California 1999 World Congress, Santa Barbara, CA., March 3-6, 1999.
151. Ermak, G. and Davies, K.J.A. Expression of the *Adapt78* gene in neurons may be associated with Alzheimer's disease. (poster) Oxygen Club of California 1999 World Congress, Santa Barbara, CA., March 3-6, 1999.
152. Davies, K.J.A. Stress response and the free radical theory of aging (Oral presentation, invited speaker and session chair). Aging and the Clinical Chemistry Laboratory, Alghero (Sardinia) Italy, June 11-13, 1999.
153. Davies, K.J.A. Oxidative stress, gene expression, and apoptosis in neurodegenerative diseases (Oral presentation, invited speaker and session chair). SFRR Europe 1999 Meeting, Dresden, Germany, July 1-5, 1999.
154. Reinheckel, T., Davies, K.J.A., and Grune, T. Proteasome regulation during oxidative stress. (Oral presentation, invited speaker) SFRR Europe 1999 Meeting, Dresden, Germany, July 1-5, 1999.
155. Shringarpure, R., Grune, T., and Davies, K.J.A. Inhibition of the 20S proteasome by the amyloid- β peptide. (Poster presentation) SFRR Europe 1999 Meeting, Dresden, Germany, July 1-5, 1999.
156. Davies, K.J.A. The free radical theory of aging revisited: from molecular mechanisms to therapeutic interventions (Oral presentation, invited speaker and session chair). IV European Congress of Gerontology - Aging in Europe (Oral presentation, invited speaker and session chair). Berlin, Germany, July 7-11, 1999.
157. Davies, K.J.A. Protein oxidation and proteolysis in response to oxidative stress (Oral presentation, invited speaker). FEBS-NATO Conference on AFree Radicals, Nitric Oxide, and Antioxidants in Health and Disease. Antalya, Turkey, September 18-24, 1999.
158. Davies, K.J.A. The broad spectrum of responses to oxidants in proliferating cells: A new paradigm for oxidative stress (Oral presentation, invited speaker and session chair). FEBS-NATO Conference on Free Radicals, Nitric Oxide, and Antioxidants in Health and Disease. Antalya, Turkey, September 18-24, 1999.
159. Davies, K.J.A. Protein oxidation, protein degradation, and the free radical theory of aging (Oral presentation, invited speaker). The New Biology of Aging Conference, Kansas City, Missouri, September 26-29, 1999.
160. Davies, K.J.A. The free radical theory of aging revisited (Oral presentation, invited speaker). 6th IUBMB Conference - Molecular & Cellular Networks, Seoul, Korea, October 10-13, 1999.
161. Davies, K.J.A. Age-related changes in the degradation of oxidized proteins by proteasome. (Invited Plenary Lecture) 6th Annual Meeting of The Oxygen Society, New Orleans, Louisiana, November 18-22, 1999.

162. Melendez, J.A. Kim, K.-H., Rodriguez, A.M., and Davies, K.J.A. Nitric oxide enhances the MnSOD-dependent suppression of proliferation in fibrosarcoma cells (poster presentation). 6th Annual Meeting of The Oxygen Society, New Orleans, Louisiana, November 18-22, 1999.
163. Melendez, J.A. Rodriguez, A.M., Carrico, P.M., Bennett, J.A. and Davies, K.J.A. Mitochondrial catalase potentiates the antitumor effects of manganese superoxide dismutase (poster presentation). 6th Annual Meeting of The Oxygen Society, New Orleans, Louisiana, November 18-22, 1999..
164. Davies, K.J.A. Protein oxidation, protein degradation, and the free radical theory of aging (Oral presentation, invited speaker). 1999 Annual Meeting of the Gerontological Society of America, San Francisco, California, November 19-23, 1999.
165. Davies, K.J.A. Degradation of oxidized proteins by the proteasome (Oral presentation, invited speaker and session chair). SFRR Europe Meeting on 'Bio-Flavonoids & Polyphenols in Health & Disease,' December 2-5, 1999.
166. Bota, D.A. and Davies, K.J.A. Mitochondrial proteolysis of oxidatively-denatured aconitase (poster presentation) Oxygen Club of California 2000 World Congress, Santa Barbara, CA, USA, 3/1-3/4, 2000.
167. Ermak, G. and Davies, K.J.A. *Adapt78* overexpression protects PC 12 cells against oxidative damage (poster presentation) Oxygen Club of California 2000 World Congress, Santa Barbara, CA, USA, 3/1-3/4, 2000.
168. Shringarpure, R., Grune, T., and Davies, K.J.A. Ubiquitin may be expendable during recognition and degradation of oxidized proteins by the proteasome (poster presentation) Oxygen Club of California 2000 World Congress, Santa Barbara, CA, USA, 3/1-3/4, 2000.
169. Davies, K.J.A. Proteasome inhibition during aging. (Invited Plenary Lecture) SFRR Europe Meeting, Liverpool, England, July 20-22, 2000.
170. Davies, K.J.A. Oxidative stress, adaptive gene responses, and cell survival (Invited Plenary Lecture). 4th UNESCO-MCBN/COSTAM Workshop: Micronutrients and Health, Molecular Biological Mechanisms, Langkawi, Malaysia, July 27-30, 2000.
171. Davies, K.J.A. The proteasome: A molecular machine for degrading oxidized proteins (Invited Plenary Lecture). 10th Biennial Meeting of the International Society for Free Radical Research, Kyoto, Japan, October 16-20, 2000,
172. Davies, K.J.A. Proteasome inhibition and protein oxidation in aging (Invited Plenary Lecture). Aging and Natural Antioxidants Meeting, Okinawa, Japan, October 21-23, 2000.
173. Ermak, G., Rozovsky, I.K., and Davies, K.J.A. *Adapt78* can protect neuronal cells against oxidative stress. (poster presentation) 30th Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, November 4-9, 2000.
174. Ermak, G. and Davies, K.J.A. *Adapt78* can protect cells against stress damage (poster presentation). 7th Annual Meeting of The Oxygen Society, San Diego, CA, November 16-20, 2000.
175. Bota, D. and Davies, K.J.A. The lon protease appears to be primarily responsible for degradation of oxidatively-denatured aconitase in mitochondria (poster presentation). 7th Annual Meeting of The Oxygen Society, San Diego, CA November 16-20, 2000.
176. Shringarpure, R., Grune, T., and Davies, K.J.A. Ubiquitin may not be required for the degradation of oxidized proteins in vivo (Oral presentation, selected speaker). 7th Annual Meeting of The Oxygen Society, San Diego, CA November 16-20, 2000.
177. Davies, K.J.A. Apoptosis involves mitochondrial oxidative stress and the selective degradation of mitochondrial rRNA, mRNA, and mtDNA (poster presentation). 7th Annual Meeting of The Oxygen Society, San Diego, CA November 16-20, 2000.
178. Davies, K.J.A. Gene expression and adaptation to oxidative stress (Plenary lecture). Universidad International Menendez Pelayo Symposium, Antioxidantes y Salud: Bioquímica y Fisiopatología del Estrés Oxidativo, Valencia, Spain, November 27 - 30, 2000.
179. Davies, K.J.A. The proteasome in oxidative stress and aging (Oral presentation, invited speaker, session chair). II International Meeting on Oxidative Stress: Biochemistry and Pathophysiology (SFRR Europe) Valencia, Spain, November 30 - December 2, 2000.
180. Davies, K.J.A. Down regulation and degradation of mitochondrial mRNA, rRNA, and DNA during oxidant-induced apoptosis (Plenary Lecture, session chair). Free Radical Reactions in General Pathology (Festschrift for Mario Dianzani), Turin, Italy, December 4-5, 2000.
181. Davies, K.J.A. Proteolytic pathways and cellular protection during oxidative stress, aging and disease (Plenary Lecture) Oxygen Club of California 2001 Congress, Santa Barbara, CA, USA, 3/7-3/10, 2001.

182. Bota, D.A. and Davies, K.J.A. Degradation of oxidatively-denatured aconitase by the *lon* protease in mitochondria (poster presentation) Oxygen Club of California 2001 Congress, Santa Barbara, CA, USA, 3/7-3/10, 2001.
183. Ermak, G., Morgan, T., and Davies, K.J.A. Overexpression of the calcineurin inhibitory gene *DSCR1* (*Adapt78*) is associated with Alzheimer's disease (poster presentation) Oxygen Club of California 2001 Congress, Santa Barbara, CA, USA, 3/7-3/10, 2001.
184. Shringarpure, R., Grune, T., and Davies, K.J.A. Ubiquitin-independent degradation of oxidized proteins by proteasome (poster presentation) Oxygen Club of California 2001 Congress, Santa Barbara, CA, USA, 3/7-3/10, 2001.
185. Davies, K.J.A. Antioxidant defenses - an overview (Plenary Lecture) Second International Conference on Oxidative Stress and Aging, Maui, Hawaii, April 2-5, 2001.
186. Davies, K.J.A. Degradation of oxidized proteins by the 20S proteasome (Plenary Lecture) the Fourth International Workshop on Proteasomes, Clermont Ferrand, France, April 4-7, 2001.
187. Davies, K.J.A. The role of calcium in the induction of the *DSCR1* (*Adapt78*) gene (Plenary Lecture) The 2001 SFRR Europe Meeting, Rome, Italy, June 22-24, 2001.
188. Bota, D.A., Davies, K.J.A., The LON Protease Function in Degradation of Oxidatively-Denatured Aconitase in Mitochondria and Mitochondrial Biogenesis. NATO-UNESCO 2001 Advanced Free Radical Workshop, Antalya, Turkey, September 23- October 3, 2001.
189. Davies, K.J.A. Antioxidant defense and repair systems (invited speaker, session chair) PAX Meeting, Boston, Mass., September 29-October 2, 2001.
190. Davies, K.J.A. Molecular strategies for coping with oxidative stress (Plenary Speaker) 'LIST 2001, AIST Kansai Meeting,' Ikeda, Osaka, Japan, November 1-2, 2001.
191. Davies, K.J.A. Acute expression of the of the *DSCR1* (*Adapt78*) gene protects against oxidative stress whereas chronic expression is associated with Alzheimer disease (invited speaker) Kyoto Redox Meeting, Kyoto, Japan, November 3-4, 2001.
192. Davies, K.J.A. The proteasome: A molecular machine for degrading oxidized proteins (Invited speaker) International Conference on Antioxidants and Redox Bioregulation, Keio University School of Medicine, Tokyo, Japan, November 5-6, 2001.
193. Ermak, G., Morgan, T., and Davies, K.J.A. Chronic overexpression of the calcineurin inhibitory gene *DSCR1* is associated with Alzheimer's disease (poster presentation) 3rd Annual Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.
194. Ermak, G., Morgan, T., and Davies, K.J.A. Chronic overexpression of the calcineurin inhibitory gene *DSCR1* is associated with Alzheimer's disease (poster presentation) 3rd Annual Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.
195. Davies, K.J.A. The broad spectrum of responses to oxidants in proliferating cells: A new paradigm for oxidative stress (Invited speaker) The 8th Annual Meeting of the Oxygen Society, Research Triangle Park, NC, November 15-19, 2001.
196. Davies, K.J.A. Oxidative stress in exercise: 'The good, the bad, and the ugly' (Plenary speaker) Oxidants, Antioxidants, and Gene Regulation in Exercise, Rennes, France, December 6-8, 2001.
197. Bota, D.A. and Davies, K.J.A. The Lon protease preferentially degrades oxidized mitochondrial aconitase by an ATP-stimulated mechanism (poster presentation) Oxygen Club of California 2002 Congress, Santa Barbara, California, March 6-9, 2002.
198. Bota, D.A. and Davies, K.J.A. Down regulation of the Lon protease causes impairment of mitochondrial morphology and function, and results in cell death (poster presentation) Oxygen Club of California 2002 Congress, Santa Barbara, California, March 6-9, 2002.
199. Bota, D.A. van Remmen, H., and Davies, K.J.A. Modulation of Lon protease activity and aconitase turnover with aging and oxidative stress (poster presentation) Oxygen Club of California 2002 Congress, Santa Barbara, California, March 6-9, 2002.
200. Harris, C., Ermak, G., and Davies, K.J.A. Differential expression of *DSCR1* (*Adapt78*) isoforms 1 and 4 in Alzheimer's disease (poster presentation) Oxygen Club of California 2002 Congress, Santa Barbara, California, March 6-9, 2002.
201. Shringarpure, R., Grune, T., and Davies, K.J.A. Ubiquitin-independent degradation of oxidized proteins by proteasome (poster presentation) Oxygen Club of California 2002 Congress, Santa Barbara, California, March 6-9, 2002.

202. Bota, D.A. and Davies, K.J.A. Modulation of Lon protease activity and aconitase turnover with aging and oxidative stress (poster presentation) American Federation for Aging Research, 15th Annual Grantee Conference, New York Academy of Sciences, New York, NY, April 11-12, 2002.
203. Davies, K.J.A. The Mitochondrial Lon protease recognizes and selectively degrades oxidized mitochondrial proteins (Oral presentation, invited speaker) 33rd Annual Meeting of the American Society for Neuroscience, colloquium on Mitochondria: Beyond Bioenergetics, Palm Beach, Florida, June 22-26, 2002.
204. Davies, K.J.A. Mitochondrial nucleases, calcium, and the Lon protease in apoptosis (Plenary speaker) International Symposium on Reactive Oxygen and Nitrogen Species: Diagnostic, Preventive, and Therapeutic Values, St. Petersburg, Russia, July 9-13, 2002.
205. Davies, K.J.A. HNE, Protein aggregates, and proteasome (Plenary speaker) First International Meeting on 4-Hydroxynonenal and Other Lipid Peroxidation Products, Salzburg, Austria, July 13-15, 2002.
206. Davies, K.J.A. Vital protective roles for the 20S proteasome and the mitochondrial Lon protease during oxidative stress, aging, and in stress-related diseases (Plenary speaker). XIth Biennial General Meeting of the International Society for Free Radical Research, Paris, France, July 16-20, 2002.
207. Davies, K.J.A. Transient induction of the *DSCR1(Adapt78) gene provides oxidative stress resistance but chronic expression is linked with Alzheimer disease*. (Oral presentation, invited speaker) XIth Biennial General Meeting of the International Society for Free Radical Research, Paris, France, July 16-20, 2002.
208. Davies, K.J.A. The broad spectrum of antioxidant defense and oxidant repair mechanisms (Plenary speaker). EUROFEDA Meeting, Cambridge, UK, September 25-28, 2002.
209. Davies, K.J.A. (plenary talk) Mitochondria, calcium, proteolysis, and apoptosis. "Oxidants and Antioxidants in Biology", Cadiz, Spain, 02/06-02/09, 2003.
210. Davies, K.J.A. (keynote address) The life and times of a free radical biochemist. "Oxidants and Antioxidants in Biology", Cadiz, Spain, 02/06-02/09, 2003.
211. Davies, K.J.A. (invited talk, session chair) Nrf2 and Oxidative Stress Signaling. Gordon Conference on Oxidative Stress and Disease, Ventura, CA, 03/16-03/21, 2003.
212. Davies, K.J.A. (invited talk) The future of free radical biology & medicine. National Institute of Environmental Health Sciences Annual Leadership Retreat, Greensboro, North Carolina, 05/19-05/21, 2003.
213. Davies, K.J.A. (invited talk) Calcium and oxidative stress: from cell signaling to cell death. 'Diet & Optimal Health' the 2nd Linus Pauling Institute Conference, Portland, OR, 05/21-05/24, 2003.
214. Davies, K.J.A. (plenary talk) Transient induction of the *DSCR1(Adapt78) gene provides oxidative stress resistance but chronic expression is linked with Alzheimer disease*. "Frontiers in Neurodegenerative Disorders and Aging: Fundamental Aspects, Clinical Perspectives and New Insights' A NATO/FEBS/IUBMB Advanced Workshop. Antalya, Turkey, 05/26-06/01, 2003.
215. Davies, K.J.A. (plenary talk) Vital protective roles for the 20S Proteasome and the mitochondrial Lon Protease during oxidative stress, stress-related diseases, and aging. "Frontiers in Neurodegenerative Disorders and Aging: Fundamental Aspects, Clinical Perspectives and New Insights' A NATO/FEBS/IUBMB Advanced Workshop. Antalya, Turkey, 05/26-06/01, 2003.
216. Davies, K.J.A. (invited talk) Mitochondrial protein oxidation and proteolysis: the role of the Lon Protease. 'Mitochondria 2003' The joint annual meeting of the Mitochondrial Medicine Society, the Mitochondrial Research Society, and the United Mitochondrial Disease Foundation. San Diego, CA, 06/11-06/14, 2003.
217. Davies, K.J.A. (plenary talk) Adaptation to oxidative stress. Annual Meeting of the European Society for Free Radical Research. Ioannina, Greece, 06/26-06/29, 2003.
218. Davies, K.J.A. (invited lecture) Degradation of Oxidized Proteins by the Proteasome and the Lon Protease. Symposium on Oxidative Protein Damage and Disease. University of Nebraska, Lincoln, Nebraska. 09/12-09/13, 2003.
219. Ermak, G. and Davies, K.J.A. (invited talk) DSCR1(Adapt78) regulates tau phosphorylation. Abstracts of the XVth International Congress of Neuropathology, Torino, Italy, 09/14-09/18, 2003, Abstract #121, pp. S55.
220. Davies, K.J.A. (plenary talk) International Association of Biomedical Gerontology Meeting, Queens College, Cambridge, UK, 09/19-09/23, 2003.
221. Davies, K.J.A. (keynote lecture) The 20S Proteasome: A molecular machine for degrading oxidized proteins. Society of Toxicology Meeting, Boston, MA, 11/13-11-14, 2003.
222. Teoh, C. and Davies, K.J.A. (poster presentation) Protein oxidation may be a universal mechanism for MHC class I antigen presentation by the immunoproteasome. Society for Free Radical Biology & Medicine 2003 Annual Meeting, Seattle, Washington, 11/21-11/25, 2003.

223. Harris, C., Ermak, G., and Davies, K.J.A. (poster presentation) Differential expression of *DSCR1 (Adapt78)* isoforms in Alzheimer's disease. Society for Free Radical Biology & Medicine 2003 Annual Meeting, Seattle, Washington, 11/21-11/25, 2003.
224. Ngo, J.K., Bota, D.A., and Davies, K.J.A. (poster presentation) The Role of the Lon Protease in Maintaining Mitochondrial Homeostasis. Oxygen Club of California 2004 Congress, Santa Barbara, California, 3/10 – 3/13, 2004.
225. Lin, S.W., Balasubramanian, P., and Davies, K.J.A. (poster presentation) Proteolysis In Cells Deficient In The 26s Proteasome S4 (ATP-ase) Subunit. Oxygen Club of California 2004 Congress, Santa Barbara, California, 3/10 –3/13, 2004.
226. Ermak, G. and Davies, K.J.A. (poster presentation) SOD1 Gene Expression Is Modulated By *DSCR1(Adapt78)*. Oxygen Club of California 2004 Congress, Santa Barbara, California, 3/10 – 3/13, 2004.
227. Teoh, C. and Davies, K.J.A. (2004) Degradation of Oxidized Proteins by the Immunoproteasome. Abstracts of the Oxygen Club of California 2004 World Congress, Santa Barbara, CA, USA, 3/10 –3/13, 2004.
228. Harris, C., Ermak, G., and Davies, K.J.A. (poster presentation) Differential expression of *DSCR1 (Adapt78)* isoforms 1 and 4 in Alzheimer's disease. Oxygen Club of California 2004 Congress, Santa Barbara, California, March 10-13, 2004, pp. 103.
229. Davies, K.J.A. (invited speaker) The Lon Protease, Aging, And Degenerative Diseases. Oxygen Club of California 2004 Congress, Santa Barbara, California, 3/10 –3/13, 2004.
230. Fratta, P., Engel, W.K., McFerrin, J., Davies, K.J.A., Lin, S.W., and Askanas, V. (poster presentation) Proteasome Inhibition Induces Aggresome Formation in a Culture Model of Inclusion-Body Myositis (IBM). 57th Annual Meeting of the American Academy of Neurology, 4/9 – 4/16, 2004, Miami Beach, Florida.
231. Davies, K.J.A. (Plenary Talk) Regulation of Cell Growth, Survival, or Death by Oxidants. 12th Biennial Meeting of the International Society for Free Radical Research, Buenos Aires, Argentina, May 5-9, 2004.
232. Davies, K.J.A. and Ermak, G. and (invited talk) Is *DSCR1(Adapt78)* A Janus Gene that Provides Stress Protection but Causes Alzheimer's Disease? Abstracts of the Meeting: Towards Gene-Phenotype Correlations in Down Syndrome: Expert Workshop on the Biology of Chromosome 21 Genes, June 11-14, Washington, D.C.
233. Ermak, G. and Davies, K.J.A. (invited talk) *DSCR1(Adapt78)* Structure, Expression, and Signal Transduction Pathways. Abstracts of the Meeting: Towards Gene-Phenotype Correlations in Down Syndrome: Expert Workshop on the Biology of Chromosome 21 Genes, June 11-14, Washington, D.C.
234. Davies, K.J.A. (invited talk) Vital Protective Roles of the Proteasome and the Mitochondrial Lon Protease During Oxidative Stress and Aging, and in Stress Related Diseases. Nobel Conference No. 46: Redox Signalling and Cellular Function, 6/6 – 6/9, 2004, Karolinska Institute, Stockholm, Sweden.
235. Davies, K.J.A. (invited talk) Regulation of Gene Expression During Reversible Adaptation to Oxidative Stress. 29th FEBS Congress, 6/26 – 7/1, 2004, Warsaw, Poland.
236. Davies, K.J.A. (invited talk) Protein Turnover and Degradation. 6th 'Euromit Congress'– European-based International Conference on Mitochondrial Pathology, 6/30 – 7/4, 2004, Nijmegen, The Netherlands
237. Davies, K.J.A. (keynote speaker-plenary lecture) Protective Roles of the Mitochondrial Lon Protease During Oxidative Stress and Aging, and Disease. Annual Meeting of the European Society for Free Radical Research, 7/2 – 7/5, 2004, Łódz ,Poland.
238. Davies, K.J.A. (keynote speaker-plenary lecture) Vital Protective Roles for the 20S Proteasome and the Mitochondrial Lon Protease During Stress and Aging. 2nd Meeting of the HNE Society: HNE and Lipid Peroxidation Products – From Basic Science to Medicine., 7/6-7/9, 2004, Berlin, Germany.
239. Davies, K.J.A. (platform talk) Key Roles of the Mitochondrial Lon Protease in Oxidative Stress. Mitochondrial Medicine 2004 – “Streams of Energy (Joint meeting of 8/4 – 8/7, 2004, Pittsburgh, Pennsylvania,
240. Davies, K.J.A. (invited talk) Protective Roles of the Mitochondrial Lon Protease During Oxidative Stress, Aging, and Disease Biology of Aging Gordon Conference, 9/12-17, Aussois, France.
241. Ermak, G. and Davies, K.J.A. (invited talk) Calcipressin1 – Calcineurin – GSK-3 Equilibrium. XXIXth European Symposium on Hormones and Cell Regulation Functional Genomics of Signal Transduction. September 17-20, 2004, Mont Sainte-Odile, Alsace, France.
242. Davies, K.J.A. (keynote speaker) The Broad Spectrum of Responses to Oxidative Stress: From Antioxidants to Adaptation. Free Radicals and Diseases: Gene Expression, Cellular Metabolism, and Pathophysiology: SFRR Free Radical School, Spetses, Greece, 9/21 - 10/1, 2004.

243. Davies, K.J.A. (invited speaker) Turnover of Mitochondrial Proteins by the Lon Protease. Free Radicals and Diseases: Gene Expression, Cellular Metabolism, and Pathophysiology: SFRR Free Radical School, Spetses, Greece, 9/21 - 10/1, 2004
244. Lin, S. W, and Davies, K.J.A. (poster presentation) New Insight into Proteasome Function from Cells Treated with ATPase Subunit S4 SiRNA. USC Annual Departmental Retreat Meeting for Division of Molecular & Computational Biology at Aliso Creek, California, 11/13 –11/14, 2004.
245. Ermak, G. and Davies, K.J.A. (invited talk) Is *DSCR1(Adapt78)* A Janus Gene that Provides Stress Protection but Causes Alzheimer's Disease? USC Annual Departmental Retreat Meeting for Division of Molecular & Computational Biology at Aliso Creek, California, 11/13 – 11/14, 2004.
246. Davies, K.J.A. (invited talk) Degradation of Oxidized Proteins. International onference on Inclusion-Body-Myositis: Frontiers of Research Potentially Relevant to Treatment. 1/26 – 1/28, 2005, Santa Monica (Los Angeles), California.
247. Davies, K.J.A. (invited talk) Role of the Proteasome in Oxidative Stress. Gordon Conference on Radiation Oncology. 1/30 – 2/4, 2005, Ventura, California.
248. Davies, K.J.A. (invited talk) Exercise and Free Radicals. 2nd Workshop on Comparative Aspects of Oxidative Stress in Biological Systems. 2/15 – 2/18, 2005, La Paz, Baja California, Mexico.
249. Lin, S. W, and Davies, K.J.A. (poster presentation) New Insights into Proteasome Function from Cells Treated with ATPase Subunit S4 SiRNA. 35th Annual Meeting of the American Society for Biochemistry and Molecular Biology, San Diego, CA, 4/2-4/6, 2005.
250. Ngo, J and Davies, K.J.A. (poster presentation) Annual Meeting of the American Society for Biochemistry and Molecular Biology, San Diego, CA, 4/2-4/6, 2005.
251. Fratta, P., Engel, W.K., McFerrin, J., Davies, K.J.A., Lin, S.W., and Askanas, V. (oral presentation) Proteasome inhibition induces aggresome formation in a culture model of inclusion-body myositis. 57th Annual Meeting of the American Academy of Neurology, Miami Beach, Florida, 4/9 – 4/16, 2005.
252. Ermak, G. and Davies, K.J.A. (invited talk) *DSCR1(Adapt78)* and calcipressin1 inhibit calcineurin and induce GSK-3: possible role in brain functions. 7th Annual Meeting of the International Behavioural and Neuronal Genetics Society (IBANGS), Sitges, Spain, 6/9 – 6/12, 2005.
253. Davies, K.J.A. (Keynote award lecture) Vital protective roles for the proteasome and the mitochondrial lon protease in oxidative stress, stress-related diseases, and aging. Young Physiologists Symposium of the Physiological Society (UK), Birmingham, England, 7/8, 2005.
254. Davies, K.J.A. (invited plenary lecture) Calcineurin regulatory gene (*DSCR1*, *ADAPT78*, *CALCIPI1*, or *RCAN*) in oxidative stress, Down syndrome, and Alzheimer disease. Annual Meeting of the European Society for Free Radical Research, West Midlands, United Kingdom, 7/8 – 7/11, 2005.
255. Davies, K.J.A. Protein oxidation and proteolysis in health & disease (Oral presentation, Keynote speaker). Gene-Environment Interactions: Oxidative Injury as a Central Mechanism of Disease Meeting, Organized by DHHS/NIH/NIEHS as part of the US-Japan Cooperative Medical Sciences Program (Genes, Environment, and Disease Panel), San Francisco, CA, March 28-29, 2008.
256. Davies, K.J.A. Protein oxidation, proteasome, and Lon protease as biomarkers for oxidative stress (Oral Presentation, Plenary Speaker). HSSRC/AIST-NIEHS/NIH Joint International Symposium: Biomarkers of Oxidative Stress in Health and Diseases (“BOSHD 2008”) Osaka, Japan, January 16-19, 2008.
257. Davies, K.J.A. Inducibility of the proteasome and of the lon protease in oxidative stress, disease, and ageing (Oral presentation, Plenary speaker) SFRR Europe Annual Meeting, Berlin, Germany, July 5-9, 2008.
258. Davies, K.J.A. Oxidative damage and the proteasome (Oral presentation, Invited speaker). Interdisciplinary Translational Research into Frailty Meeting, Liverpool, United Kingdom, July 15-16, 2008.
259. Davies, K.J.A. Diminished adaptability and inducibility of the Proteasome and the lon protease to oxidative stress in ageing (Oral presentation, Plenary speaker) British Society for Research on Ageing Annual Meeting, Brighton, United Kingdom, July 17-18, 2008.
260. Davies, K.J.A. The degradation of oxidized proteins protects against oxidative stress (Plenary speaker & Session chair) SFRBM Annual Meeting, Indianapolis, Indiana, November 17-21, 2008.
261. Davies, K.J.A. A short history of the study of oxidative stress and free radicals in exercise. (Plenary Speaker) 3rd NOBM meeting, SFRR-France, Paris, France, April 8-11, 2009.
262. Davies, K.J.A. (2009) Adaptive Responses to Oxidative Stress: Particularly the *RCAN1* Gene (Plenary Speaker) 8th Annual International Conference on Dose-Response: Implications for Toxicology, Medicine, and Risk Assessment (International Dose-Response Society) University of Massachusetts Amherst, April 28 - 29, 2009.

263. Davies, K.J.A. (invited talk, session chair) Adaptation to Oxidative Stress in Aging and Age-related Diseases Gordon Conference on Oxidative Stress and Disease, Ventura, CA, 02/07-02/12, 2010.
264. Andrew M. Pickering, Koop, A.L., Pimental, C.T., Ermak, G., Grune, T., and Davies, K.J.A. The Immunoproteasome, The 20S Proteasome, and the Pa28 $\alpha\beta$ Proteasome Regulator are Oxidative Stress-Adaptive Proteolytic Complexes (Invited talk) American Society of Biochemistry & Molecular Biology Annual Meeting, San Diego, CA 04/24-04/28, 2010
265. Davies, K.J.A. (keynote speaker) The Broad Spectrum of Responses to Oxidative Stress: From Antioxidants to Adaptation. Free Radicals and Diseases: Gene Expression, Cellular Metabolism, and Pathophysiology: SFRR Free Radical School, Spetses, Greece, 6/4 – 6/10, 2010.
266. Davies, K.J.A. (invited speaker) Turnover of Mitochondrial Proteins by the Lon Protease. Free Radicals and Diseases: Gene Expression, Cellular Metabolism, and Pathophysiology: Hellenic Free Radical Society Annual Meeting, Spetses, Greece, 6/10 – 6/13, 2010
267. Davies, K.J.A. (invited speaker) Adaptive Response of the Lon Gene to Oxidative Stress, 5th International HNE Meeting, Turin, Italy, 6/16 – 6/18, 2010.
268. Davies, K.J.A. (invited speaker) Diminished Adaptability & Inducibility of the Proteasome & the Lon Protease to Oxidative Stress During Ageing. Gordon Research Conference on Aging, Les Diablerets, Switzerland, 8/22 – 8/27, 2010.
269. Davies, K.J.A. (invited speaker) Free Radicals & Exercise: An Overview. Exercise & Oxidative Stress Meeting, Dinard, France, 10/30 – 11/2, 2010.
270. Davies, K.J.A. (invited speaker, session chair) The Evolution of Free Radical Biology & Medicine: still radical after a quarter of a century! Society for Free Radical Biology & Medicine Annual Meeting, Orlando, Florida, 11/17 – 11/21, 2010.
271. Davies, K.J.A. The *RCAN1* gene may link oxidative stress with Alzheimer disease, Down syndrome, and Huntington disease. (Keynote Speaker) International Symposium on Free Radical Research: Contributions to Medicine. Kyoto, Japan, January 19-21, 2011.
272. Davies, K.J.A. (Invited speaker, session chair) Oxidative stress, DNA damage, epigenetics and disease. Gordon Conference on 'Oxidative Stress & Disease: Emerging Research Areas in the Study of Oxidative Stress and Disease,' Ventura, CA, March 13-18, 2011.
273. Lefeuvre, L., Rebillard, A., Martin, B., Delamarche, A., Ermak, G., Cillard, J., and Davies, K.J.A. (poster presentation). Effects of exhaustive exercise on expression of RCAN1 isoforms in rat muscles: involvement of oxidative stress. Free Radicals, Nutrition and Aging: From Fundamental Aspects to Clinical Applications, Paris, France, June 15-17, 2011
274. Davies, K.J.A. (Plenary speaker) Ageing, Proteolysis, and Stress Adaptation. Free Radicals, Nutrition and Aging: From Fundamental Aspects to Clinical Applications, Paris, France, June 15-17, 2011.
275. Davies, K.J.A. (Plenary Speaker) Proteasome Signal Transduction Pathways and Oxidative Stress Adaptation. Reactive Oxygen Species and Micronutrients: From Cell Signaling to Translational Research - SFRR-Europe 2011 Congress, Istanbul, Turkey, 7th-10th September, 2011.
276. Davies, K.J.A. (Plenary Speaker) The Role of Proteasome Signal Transduction Pathways in Aging and Adaptation to Environmental Stress. 2nd International Conference on Environmental Stressors in Biology & Medicine, Siena, Italy, October 5-7, 2011.
277. Zhang, H., Liu, H., Morgan, T., Finch, C.E., Ursini, F., Davies, K.J.A., and Forman, H.J. (Talk) Cigarette Smoke-stimulated Epithelial-mesenchymal Transition Through Src Activation. 2nd International Conference on Environmental Stressors in Biology & Medicine, Siena, Italy, October 5-7, 2011.
278. Chepelev, N.L., Bennitz, J.D., Huang, T., McBride, S., Zhang, H., Liu, H., Davies, K.J.A., Forman, H.J., and Willmore W.G. (Selected Talk) Nrf1 (NFE2L1) Transcription Factor is Regulated by Multiple Stimuli Through the Stability of its Inhibitory P65 Nrf1 Form. Society for Free Radical Biology & Medicine 18th Annual Meeting, Atlanta, GA, November 16-20, 2011.
279. Davies, K.J.A. (Talk) Does the RCAN1 Gene Link Oxidative Stress and Alzheimer Disease? Gerontological Society of America 2011 Annual Meeting, Biological Sciences Series: Biological Mechanisms of Aging II. Boston, MA, November 18-22, 2011.
280. Davies, K.J.A. (Platform Talk) Antioxidants and the Elderly – Who Needs Dietary Supplements? Invited Platform Talk at the Gerontological Society of America 2011 Annual Meeting, Biological Sciences Series: Antioxidant Supplements for the Elderly: What is the Right Rx? Boston, MA, November 18-22, 2011.
281. Davies, K.J.A. (Plenary Talk) Proteolytic signaling dysfunction in aging. Oxidants & Antioxidants in Biology: Cell Signalling and Nutrient-Gene Interactions. Alba, Italy, June 20-23, 2012.

282. Davies, K.J.A. (2012) Proteasome and Lon: A saga of sex, drugs, stress, and ageing. SFRR Europe Gold Medal Award Lecture, 2012 Congress of the International Society for Free Radical Research. London, England, September 6-12, 2012.
283. Davies, K.J.A. (Plenary Talk) Adaptive response of the mitochondrial *lon* gene to oxidative stress. Abstracts of the 9th Conference of the Asian Society of Mitochondrial Research, and the 5th Conference of the Chinese Society of Mitochondrial Research & Medicine. Beijing, China, November 2-5, 2012.
284. Davies, K.J.A. (Symposium Talk) Adaptation to oxidative stress in aging. 65th Annual Scientific Meeting of the Gerontological Society of America, and 19th Annual Meeting of the Society for Free Radical Biology & Medicine. GSA-SFRBM Joint Symposium: Oxidative Stress for the Non-Biologist, San Diego, CA, November 14-18, 2012
285. Davies, K.J.A. (Symposium Talk) Diminished proteolysis and oxidative stress adaptation in aging. 65th Annual Scientific Meeting of the Gerontological Society of America, and 19th Annual Meeting of the Society for Free Radical Biology & Medicine. GSA-SFRBM Joint Symposium: The Free Radical Theory of Aging Revisited, San Diego, CA, November 14-18, 2012
286. Davies, K.J.A. (Plenary Speaker) 5th NOBM meeting, SFRR-France, Paris, France, June 5-7, 2013.
287. Davies, K.J.A. (Plenary Speaker) Regulatory mechanisms for proteolytic systems in oxidative stress. 2013 Meeting of the European Society for Free Radical Research, Athens, Greece, September 23-25, 2013.
288. Davies, K.J.A. (invited speaker) Signaling control of proteasome, immunoproteasome, and PA28 regulator gene expression during adaptation to oxidative stress. Experimental Biology 2014, San Diego, CA, April 26 – 30, 2014.
289. Davies, K.J.A. (poster) Protective role of the mitochondrial Lon protease in homeostasis, oxidative stress-adaptation, disease, and aging. Experimental Biology 2014, San Diego, CA, April 26 – 30, 2014.
290. Emrani Bidi, R., Rebillard, A., Dany, S., Delamarche, A., Davies, K.J.A., and Cillard, J. (poster presentation) Physical exercise up-regulates RCAN1 protein isorom4 in rat skeletal muscle: involvement of oxidative stress. Oxygen Club of California 2014 Congress, UC, Davis, Davis, CA, May 7 – 10, 2014.
291. Davies, K.J.A. (Plenary Speaker) The Oxygen Paradox and the (revisited) Free Radical Theory of Aging. American Thoracic Society International Conference, San Diego, CA, May 16 – 21, 2014.
292. Davies, K.J.A. (Plenary Speaker) Role of the Proteasome and its regulators in stress adaptation & ageing. 43rd Annual Meeting of the American Aging Association, San Antonio, Texas, May 30 – June 2, 2014.
293. Davies, K.J.A. (Plenary speaker) A conserved role for the 20S proteasome and the Nrf2 transcription factor in transient and reversible adaptation to oxidative stress. 3rd International Conference on Environmental Stressors in Biology & Medicine: Focus on Redox Reactions, University of Ferrara, Italy, June 25 – 27, 2014.
294. Davies, K.J.A. (invited speaker) A conserved role for the 20S proteasome and the Nrf2 transcription factor in transient and reversible adaptation to oxidative stress. 2nd USC-Buck Aging Symposium, August 2014.
295. Davies, K.J.A. (invited speaker) What goes wrong with Lon in ageing? SFRR Europe 2014 Annual Meeting – Free Radicals: Insights in signaling and adaptive homeostasis, Paris, France, September 5 – 7, 2014.
296. Zhang, H., Davies, K.J.A., and Forman, H.J (invited speaker) TGF β rapidly activates Src through a non-canonical redox mechanism. SFRR Europe 2014 Annual Meeting – Free Radicals: Insights in signaling and adaptive homeostasis, Paris, France, September 5 – 7, 2014.
297. Emrani Bidi, R., Rebillard, A., Dany, S., Delamarche, A., Davies, K.J.A., and Cillard, J. (poster presentation) Acute electrical stimulation and hyperglycemia reulates RCAN1-4 in C2C12 myotubes through oxidative stress. SFRR Europe 2014 Annual Meeting – Free Radicals: Insights in signaling and adaptive homeostasis, Paris, France, September 5 – 7, 2014.
298. Pomatto, L.C-D., Shaw, B., Raynes, R., Tower, J, and Davies, K.J.A. (poster presentation) The conserved role of the Lon protease in *Drosophila Melanogaster* during aging. Annual Meeting of the Society for Free Radical Biology & Medicine, Seattle, Washington, November 19-23, 2014.
299. Raynes, R., Juarez, C., Pomatto, L.C-D., R., Sieburth, D., and Davies, K.J.A. (2014) The age-related decline of 20S proteasome adaptation to oxidative stress is dependent on SKN-1 signaling. Annual Meeting of the Society for Free Radical Biology & Medicine, Seattle, Washington, November 19-23, 2014.
300. Davies, K.J.A. (Keynote Lecture) The roles of Proteasome & Lon in adaptation to oxidative stress. 2nd International Chinese Symposium on Free Radical Research and the 6th Symposium for Three Districts of Cross-straits on Free Radical Research. Hong Kong University, Hong Kong, November 15-16, 2014.
301. Davies, K.J.A. (Invited Lecture) Declining stress responses as a contributing factor to ageing. The 2015 Ageing Summit, The O₂, London, UK, February 11-12, 2015.

301. Davies, K.J.A. (Invited Lecture) Redox signaling of proteasome, immunoproteasome, and the Lon protease via the Nrf2 and IRF signal transduction pathways. Gordon Research Conference on Oxidative Stress & Disease, Ventura, CA, March 1-6, 2015.
302. Davies, K.J.A. (Invited speaker, Career Award Winner) Adaptive homeostasis, oxidative stress, and aging. Preconditioning in Biology & Medicine: the 2015 Meeting of the International Dose Response Society and the International Hormesis Society. University of Massachusetts, Amhurst, MA, April 21-22, 2015.
303. Pomatto, L.C.-D., Shen, B., Carney, C., Raynes, R., Tower, J., and Davies, K.J.A. (Selected Talk) The conserved role of the Lon protease in *Drosophila melanogaster* during aging. The 44th American Aging Association Meeting, Marina del Rey, CA, May 29 – June 1, 2015.
304. Bonet-Costa, V., Lloret, A., Viña, J., and Davies, K.J.A. (Poster) RCAN1 is an important link between Amyloid- β and Tau in Alzheimer's disease. The 44th American Aging Association Meeting, Marina del Rey, CA, May 29 – June 1, 2015.
305. Raynes, R., Juarez, C., Pomatto, L.C.D., Sieburth, D., and Davies, K.J.A. (Selected Talk) The aging-related decline in 20S proteasome adaptation to oxidative stress is dependent on SKN-1 signaling. The 44th American Aging Association Meeting, Marina del Rey, CA, May 29 – June 1, 2015.
306. Davies, K.J.A. (Poster) The decline of adaptive homeostasis in aging. The 44th American Aging Association Meeting, Marina del Rey, CA, May 29 – June 1, 2015.
307. Davies, K.J.A. (Plenary Lecture) Impaired inducibility of the mitochondrial Lon protease in ageing: an example of declining adaptive homeostasis. Oxygen Club World Congress June 24 – 26, 2015, Valencia, Spain.
308. Davies, K.J.A. (Invited Talk) Oxidative stress and the decline of adaptive homeostasis in aging. Society for Free Radical Research, Europe annual meeting September 2 – 4, 2015 Stuttgart, Germany.
309. Davies, K.J.A. (Invited Talk) Free Radicals, oxidative stress, and declining adaptive homeostasis in aging. Department of Pathology, University of Genoa, Italy, September 7, 2015
310. Davies, K.J.A. (President's Plenary Lecture) The loss of adaptive homeostasis in ageing. Annual Meeting of the Spanish Society for Biochemistry & Molecular Biology (Congreso de la Sociedad Española de Bioquímica y Biología Molecular) September 7 – 10, 2015, Valencia, Spain.
311. Davies, K.J.A. (Mario Umberto Dianzani Lecture) Adaptive homeostasis, stress, and ageing: A tribute to Mario Umberto Dianzani. Annual Meeting of the Italian Academy of Pathology, Alba, Italy, September 11-12, 2015.
312. Pomatto, L.C.-D., Carney, S.B., Tower, J., and Davies, K.J.A. (poster presentation) Restoration of the adaptive response of the 20S proteasome in *D. Melanogaster* during aging. Annual Meeting of the Society for Free Radical Biology & Medicine, Orlando, FL, November 18-22, 2015.
313. Davies, K.J.A. (Invited Talk, Plenary Speaker) Society for Free Radical Research, Asia annual conference, Chiang Mai, Thailand, November 29 – December 2, 2015
314. Davies, K.J.A. (Invited Talk, Honorary Professorship Award) Free Radicals, oxidative stress, and declining adaptive homeostasis in aging. December 4, 2015, Chung Gun University, Taiwan
315. Davies, K.J.A. (Invited Talk) Free Radicals, oxidative stress, and declining adaptive homeostasis in aging. December 5, 2015, National Chiao Tung University, Taiwan
316. Davies, K.J.A. (Invited Talk) Free Radicals, oxidative stress, and declining adaptive homeostasis in aging. December 6, 2015, National Cheng Kung University, Taiwan
317. Pomatto, L.C.-D., Carney, S.B., Tower, J., and Davies, K.J.A. (poster presentation) The sex-specific adaptive response of the Lon protease in *D. Melanogaster* declines with age. American Society for Cell Biology 2015 annual meeting, San Diego, CA, December 12-16, 2015.
318. Davies, K.J.A., Henke, M., Lithgow, G.J., Kennedy, B.K., and Cohen, P. (2016) The unique USC-Buck Geroscience PhD Program in the Biology of Aging. 2016 Annual Meeting of the Association for Gerontology in Higher Education (AGHE), Long Beach, CA, March 3-6, 2016.
319. Davies, K.J.A. (Plenary Lecture) Impairment of Adaptive Homeostasis in Aging. The 2016 meeting of the American Aging Association (AGE) Seattle, Washington, June 1 – 5, 2016.
320. Davies, K.J.A. (Hungarian Secretary of Sport Invited Keynote Lecture) Free Radicals and Adaptive Homeostasis in Exercise. SFRR Europe Annual Meeting, Budapest, Hungary, 8th – 11th June, 2016.
321. Davies, K.J.A. (Invited Keynote Lecture) The Oxygen Paradox, Adaptive Homeostasis, and Ageing. Abstracts of the 28th *Academia Europaea* Annual Conference, Cardiff, Wales, UK, 27th – 30th June, 2016.

322. Pomatto, L.C.-., Carney, C., Shen, B., Tower, J., and Davies, K.J.A. (poster presentation) To adapt or Not to Adapt: Sex-specific and Age-dependent Adaptation of the Mitochondrial Lon Protease in *D. melanogaster.*, ‘Aging & Metabolism’ a *Cell* Symposium, Melia Sitges, Spain, July 10-12, 2016.
323. Davies, K.J.A. (Invited Lecture) The ‘ParadOx Workshop’ - The Oxygen Paradox and The French Paradox in Ageing and Disease. 10.14, session #2. Los Angeles, CA, USA, October 13-16, 2016.
321. Pomatto, L.C.-D. and Davies, K.J.A. (Invited Lecture) Age- and Sex-dependent Differences in Adaptive Homeostasis and their Impact on Protein homeostasis in the Fruit Fly, *Drosophila Melanogaster*. The ParadOx Workshop - The Oxygen Paradox and The French Paradox in Ageing and Disease, 10.14, session #2. Los Angeles, CA, USA, October 13-16, 2016.
322. Davies, K.J.A. (Trevor Slater Award Lecture-Plenary Talk) Roles of the Oxygen Paradox and Adaptive Homeostasis in the ageing phenomenon. The 23rd SFRBM & 18th SFRR International Biennial Congress 2016, San Francisco, CA, USA.
323. Wong, S., Pomatto, L.C.-D., Davies, K.J.A. and Tower, J. (poster presentation) Aging and sex-dependent Adaptive Homeostasis in response to oxidative stress. The 23rd SFRBM & 18th SFRR International Biennial Congress 2016, San Francisco, CA, USA.
324. Cline, M., Pomatto, L.C.-D., and Davies, K.J.A. (2016) Nano-particulate exposure impacts proteasome adaptive response in young and middle-aged female mice. The 23rd SFRBM & 19th SFRR International Biennial Congress 2016, San Francisco, CA, USA.
325. Pomatto, L.C.-D., Caeney, C., Shen, B., Tower, J., and Davies, K.J.A. (2016) To adapt or not to adapt: sex-specific and age-dependent adaptation of the mitochondrial Lon protease. The 23rd SFRBM & 18th SFRR International Congress 2016, San Francisco, CA, USA.
326. Bonet-Costa, V. and Davies, K.J.A.. (2016) Measuring 20S Proteasome and Immunoproteasome Activities in Oxidative Stress. The 23rd SFRBM & 18th SFRR International Biennial Congress 2016, San Francisco, CA, USA.
327. Pomatto, L.C.-D., Wong, S., Tower, J., and Davies, K.J.A. (2016) The mitochondrial Lon protease is an adaptive, stress-responsive, proteinase whose induction is both sex- and age-dependent in *D. melanogaster*. American Society for Cell Biology 2016 Annual Meeting, December 3-7, San Francisco, CA.
328. Wong, S., Pomatto, L.C.D., Tower, J., and Davies, K.J.A. (2016) Sexual dimorphism and the 20S Proteasome in oxidative stress and adaptive homeostasis. Abstracts of the American Society for Cell Biology 2016 Annual Meeting.
329. Davies, K.J.A. (Friedsam Award Lecture 2017) From Socrates to Watson & Crick – the evolution of molecular biology & mentoring in Geroscience, the Association for Gerontology in Higher Education Annual Meeting, March 9 – 12, 2017, Miami, Florida.
330. Davies, K.J.A. (Invited Talk) The mitochondrial Lon protease plays a key role in sex- and age-specific oxidative stress adaptation and redox signaling pathways. Biochemical Society (London) Meeting: ROS & Mitochondria in Nervous System Function & Disease. March 27 – 29, 2017, Charles Darwin House, London, U.K.
331. Sun, P., Yu, K., and Davies, KJA (2017) Thresholds and limitations of adaptive homeostasis in stressed and unstressed cells. Poster at the 2017 SfrBM 24th Annual Meeting, November 29 - December 2, 2017 Hilton Baltimore Baltimore, MD USA.
332. Pomatto, L.C.D., Cline, M., Woodward, N., Morgan, T., Finch, C., Forman, H.J., and Davies, K.J.A. (2017) Oxidizing nano particles (smog) induce protective levels of proteasome via the Nrf2 signal transduction pathway in young but not old female mice. Poster at the 2017 SfrBM 24th Annual Meeting, November 29 - December 2, 2017 Hilton Baltimore Baltimore, MD USA.
333. Wong, S., Pomatto, L.C.D., Sisliyan, C., Tower, J., and Davies, K.J.A. (2017) Is sexually dimorphic adaptation to oxidative stress a tissue specific or a systemic phenomenon in *D. Melanogaster*? Poster at the 2017 SfrBM 24th Annual Meeting, November 29 - December 2, 2017 Hilton Baltimore Baltimore, MD USA.
334. Cisliyan, C., Wong, S., Pomatto, L.C.D., Tower, J., and Davies, K.J.A. (2017) 20S Proteasome Beta 5 subunit is crucial for sexually divergent adaptive homeostasis responses to oxidative stress in *D. Melanogaster*. Poster at the 2017 SfrBM 24th Annual Meeting, November 29 - December 2, 2017 Hilton Baltimore Baltimore, MD
335. Sun, P., Yu, K., and Davies, K.J.A. (2017) Age-dependent decline in adaptive homeostasis and Nrf2 mediated proteasome induction in human bronchial epithelial cells exposed to oxidative stress. Poster at the 2017 SfrBM 24th Annual Meeting, November 29 - December 2, 2017 Hilton Baltimore Baltimore, MD USA.

336. Davies, K.J.A. (2017) Reversing the Age-related Loss of Adaptive Homeostasis: Hope for the Future? Abstracts of the Biology of Ageing II Singapore Meeting: “Impactful Interventions – Systems, Models, Pathways, Diseases, Invited Keynote Speaker, Singapore 14-16 November, 2017.
337. Davies, K.J.A. (2017) Abstracts of the IUBMB Focused Meeting: “Molecular Aspects of Aging & Longevity” Invited Keynote Speaker, Athens, Greece, 16-19 October, 2017.
338. Davies, K.J.A. (2017) From Socrates to Watson & Crick – the evolution of molecular biology & mentoring in Geroscience. Friedsam Award Lecture, the Association for Gerontology in Higher Education Annual Meeting, Abstract book page 44. Annual Meeting of the Association for Gerontology in Higher education (AGHE) Miami, Florida, March 9-12, 2017.
339. Davies, K.J.A. (2017) The mitochondrial Lon protease plays a key role in sex- and age-specific oxidative stress adaptation and redox signaling pathways. Abstracts of the Biochemical Society (London) Focused Meeting: ROS & Mitochondria in Nervous System Function & Disease. Invited Talk P002, 27–29 March 2017, Charles Darwin House, London, UK
340. Davies, K.J.A. (2017) Importance of the mitochondrial Lon protease in age- and sex-specific adaptation to oxidative stress. Abstracts of the 2017 SFRRE Meeting, Berlin. 21-23 June 2017. Invited Talk # OP-10.
341. Pomatto, L.C.D., Cline, M., and Davies, K.J.A. (2017) Nano-particulate exposure impacts the adaptive response in 6-month old female mice. Oral Presentation at the 19th International Conference on Oxidative Stress Reduction, Redox Homeostasis, and Antioxidants, Paris, France June 26-27, 2017.
342. Davies, K.J.A. (2017) Proteasome and Lon as examples of declining adaptive homeostasis in aging. Oral Presentation at the 2017 IAGG World Congress, *Innovation in Aging*, San Francisco, CA July 23-27, 2017.
343. Davies, K.J.A. (2017) Importance of age and sexual dimorphism in adaptive homeostatic responses to oxidative stress. Oral Presentation at the 2017 IAGG World Congress, *Innovation in Aging*, San Francisco, CA July 23-27, 2017.
344. Davies, K.J.A. (Invited Speaker & session chair) ‘Adaptive Homeostasis’ Gordon Conference on Oxygen Radicals in Biology & Medicine, Ventura, CA, February 4-9, 2018.
345. Davies, K.J.A. (2018) Keynote Lecture, Roles of the Proteasome and the Lon protease in Adaptive Proteostasis at the “Proteolysis Symposium” at the Athens Institute of Biology, Medicinal Chemistry & Biotechnology, Athens, Greece, on February 21st, 2018.
346. Davies, K.J.A. (2018) The Decline of Adaptive Proteostasis in Ageing. Keynote Talk at Proteostasis 2018 – Proteostatic Mechanisms in Health & Disease. February 22-24, 2017, Athens, Greece.
347. Davies, K.J.A. (Keynote Speaker) Oxidative Stress & Aging. Conference entitled, ‘Aging Reimagined’ Wake Forest University, Winston Salem, NC, 3-4, May, 2018
348. Davies, K.J.A. (Invited Speaker) The Decline of Adaptive Homeostasis & Adaptive Proteostasis in Ageing. 19th Biennial meeting for the Society for Free Radical Research International (SFRRRI) – Lisbon, Portugal, June 4-7, 2018.
349. Davies, K.J.A. (Plenary Speaker) Adaptive Homeostasis and Cardiovascular Ageing. 2nd Annual Michigan Biology of Aging Symposium, University of Michigan, Ann Arbor, September 21, 2018.
350. Davies, K.J.A. (Plenary Speaker) Compromised Redox Regulation of Adaptive Homeostasis in Aging. Abstracts of the GSA 2018 Annual Scientific Meeting *Innovation in Aging*, Volume 2, Issue suppl_1, November 2018, Page 220, <https://doi.org/10.1093/geroni/igy023.811>
350. Davies, K.J.A. (Invited Speaker) “Proteostasis, Sexual Dimorphism & Declining Adaptive Homeostasis in Ageing.” University of California, Berkeley, February 6, 2019.
351. Davies, K.J.A. (Invited Speaker) Mitochondrial LON Protease in Sex- and Age-Specific Adaptive Homeostasis & Redox Signaling Pathways. American Aging Association annual meeting, May 30 – June 2n 2019, San Francisco (Burlingame) CA.
352. Davies, K.J.A. (Invited Speaker) ‘The Physiology of Adaptive Homeostasis.’ Symposium in Honor of Prof. Giuseppe (Pippo) Poli at the SFRR Europe Annual Congress, Ferrara, Italy, June 19-21, 2019.

In addition, I have presented invited research seminars at many institutions, including:

Amgen Inc.
 Barshop Institute, San Antonio
 Berlin University, Germany
 Brunell University, England
 Buck Institute, CA
 Calcutta University, India
 California State University
 Cambridge University, England
 Case Western Reserve University
 Cleveland Clinic
 Columbia University
 Cornell University
 Dartmouth College
 University Medical School of Debrecen, Hungary
 Delhi University, India
 Emory University, Atlanta
 European University of Brittany, France
 Fred Hutchinson Cancer Center, Univ. of Washington
 Ghangzhou University, China
 Harvard Medical School
 Harvard University
 Hebrew University, Israel
 Hong Kong University
 Humboldt University, Berlin, Germany
 Hungarian Academy of Sciences
 Imperial College, London University
 Indian Academy of Sciences
 Indian Institute of Science
 Institute Gustave Roussy, Paris
 Intellect Neurosciences Inc., NY
 Italian National Institute of Nutrition, Rome
 Johns Hopkins University
 Karolinska Institute, Sweden
 London University, Kings College
 London University, Imperial College
 Louisiana State University
 MD Anderson Cancer Center, Houston, TX
 Medical College of Wisconsin
 Millennium Pharmaceuticals Inc., Boston
 MRC/Wellcome Trust, Cambridge, UK
 Mount Sinai School of Medicine
 National Institute on Aging, USA
 National Institutes of Health, USA
 Oxford University, England
 Pennsylvania State University
 Rome University, Italy
 Pasteur Institute, Paris
 Russian State Medical University
 Rutgers University
 Royal Free Hospital School of Medicine, England
 Royal College of Physicians, Edinburgh
 Royal Society of Medicine, London
 Scripps Clinic & Research Institute
 Shenshen Medical College, China
 Sorbonne Universities, Paris, France
 Turin Academy of Medicine, Italy
 Turin Biotechnology Foundation, Italy
 Tufts University
 Unilever Inc.
 University of Alabama at Birmingham
 University of Athens, Greece
 University of Atlanta
 University of Barcelona, Spain
 University of Bari, Italy
 University of Buenos Aires, Argentina
 University of California, Berkeley
 University of California, Irvine
 UCLA
 University of California, San Diego
 University of California, San Francisco
 University of Chieti, Italy
 University of East Carolina
 University of Edinburgh, Scotland
 University of Genoa, Italy
 University of Gdansk, Poland
 University of Hawaii
 University of Hohenheim, Germany
 University of Ioannina, Greece
 University of Kansas, Lawrence
 University of Kentucky
 University of Kuala Lumpur, Malaysia
 University of Liverpool, England
 University of Lyon, France
 University of Modena, Italy
 University of Moscow, Russia
 University of Michigan
 University of Nebraska
 University of Padova, Italy
 University of Pisa, Italy
 University of Paris 5, France
 University of Paris 6, France
 University of Pennsylvania
 Université Pierre et Marie Curie, Paris
 University of Rennes, France
 University of Saint Petersburg, Russia
 University of Sardinia, Italy
 University of Siena, Italy
 University of South Alabama
 University of Southern California
 University of Stockholm, Sweden
 University of Sussex, England
 University of Texas, San Antonio
 University of Texas, Houston
 University of Turin, Italy
 University of Valencia, Spain
 University of Vermont
 University of Washington

University of Wisconsin
 University of York, England
 Vanderbilt University
 Washington University, St. Louis

Wayne State University
 Wesleyan University
 Wye College, England
 Yale University

SUMMARY OF POST-DOCTORAL AND GRADUATE STUDENT TRAINING

Postdoctoral Fellows Currently Working in my Laboratory

1. Sammi Ali (PhD University of Southern California 2020) 2020 - Now

Postdoctoral Fellows Previously Trained in my Laboratory

1. Dulcinea Saes Parra Abdalla, Ph.D. (Universidade de São Paulo, Brazil) 1989. Dr Abdalla is currently a Professor of Biochemistry at the Universidade de São Paulo in Brazil.
2. Marta E. Delsignore, Ph.D. (Rutgers University) 1983-1985. Dr. Delsignore is currently the head of a biochemistry research section at The Colgate-Palmolive Research Center in Nutley, New Jersey.
3. Susan M. McKenna, M.D. (University of Indiana, School of Medicine) 1985-1988. Dr. McKenna is currently a Professor of Pediatrics in the Department of Medicine at The University of Southern California, Los Angeles, California.
4. Yin Zhang, Ph.D. (Chinese Academy of Sciences, Beijing, China) 1985-1988. Dr. Zhang is currently a Professor of Biochemistry in The Chinese Academy of Sciences in Beijing, China.
5. Maw-Song Wang, Ph.D. (University of Kansas) 1985. Dr. Wang is an Associate Professor of Biology at The California State University at Long Beach, California.
6. Suman Thacker, M.D. (university of Southern California) 1984. Dr. Thacker is currently a private practitioner of Internal Medicine and Rheumatology in Scottsdale, Arizona.
7. Joanna M. S. Davies M.D., (University of Southern California) 1985. Dr. Davies is currently Adjunct Associate Professor in the School of Gerontology at the University of Southern California, and is Director of the Osteoporosis Center of Los Angeles.
8. Olivier Marcillat, Ph.D. (Université Claude Bernard, Lyon, France) 1986-1988. Dr. Marcillat is currently a Professor of Biochemistry at the University of Lyon, France.
9. Yasuhisa Kono, Ph.D. (Kyoto University, Japan) 1988-1990. Dr. Kono is currently Professor of Microbiology at Tottori University in Yonago City, Japan.
10. Cecilia Giulivi, Ph.D. (University of Buenos Aires, Argentina) 1988-1990. Dr. Giulivi is currently Professor of Biochemistry at the University of California at Davis.
11. Dilip Vakharia, Ph.D. (London University, England) 1991-1993 Dr Vakharia is currently a Senior Research Scientist at the Wadsworth Center for Laboratories and research of the New York State Department of Health in Albany, New York.
12. Minakshi Joshi, Ph.D. (London University, England) 1990-1994 Dr Joshi is currently an Associate Professor of Biochemistry at the Bowman Gray School of Medicine of Wake Forest University, in Winston-Salem, North Carolina.
13. Tilman Grune, Ph.D. (Humboldt University of Berlin, Germany) 1992-1994 Dr. Grune is currently Director of the German National Institute on Human Nutrition in Potsdam, Germany, and a Professor of Biochemistry & Molecular Biology at the Humboldt University in Berlin, Germany.
14. Thomas Reinheckel MD/Ph.D. (Medical Academy of Magdeburg, Germany) 1994-1995 Dr. Grune is currently a Professor of Biochemistry and of Medicine at Magdeburg University, Magdeburg, Germany.
15. Cheryl A. Edbauer Nechamen, Ph.D. (University of Texas, Houston) 1991-1994 Dr. Nechamen is currently President of 'The Book Affair,' in Albany, New York, and a Senior Research Scientist at the Wadsworth Center for Laboratories and research of the New York State Department of Health in Albany, New York..
16. Yong Kyu Kim, Ph.D. (Toyama University, Japan) 1991-1993 Dr. Kim is currently Professor of Microbiology at the National Institute of Safety Research, Seoul, Korea.
17. John William Haycock, Ph.D. (University of Newcastle Upon Tyne, England) 1993-1994 Dr. Haycock took a law degree at London University in England and is now practicing patent law in the bio-tech industry in the UK.

18. Catherine Partridge, Ph.D. (University of Texas, Medical Branch, Galveston) 1991-1995 Dr. Partridge is currently a Professor of Biochemistry & Molecular Biology at the Albany Medical College in Albany, New York.
19. Charles V. Lowry, Ph.D., deceased (University of Wisconsin, Madison) 1991-1996 Dr Lowry was Associate Professor of Biochemistry & Molecular Biology at the Albany Medical College in Albany, New York.
20. Dana Crawford, Ph.D. (Dartmouth College, Hanover, New Hampshire) 1992-1996 Dr. Crawford is currently a Professor of Biochemistry & Molecular Biology at the Albany Medical College in Albany, New York.
21. Juan Andre Melendez, Ph.D. (State University of New York at Albany) 1994-1996 Dr. Melendez is currently a Professor of Biochemistry & Molecular Biology at the SUNY Albany, in New York.
22. James A. North, Ph.D. (University of Iowa, 1993) 1996-1998 Dr. North is currently an Associate Professor at Cal. State Hayward.
23. Paloma Bermejo Bescos Ph.D. (University of Madrid, Spain, 1996) 1996-1998 Dr. Bescos is currently an Associate Professor at the University of Madrid, Spain.
24. Mei Ling Chang, Ph.D. (University of Southern California, 1995) 1996-1998 Dr. Chang is currently a Researcher at Amgen Corp., Thousand Oaks, CA.
25. Marilene Demasi, Ph.D. (University of São Paulo, Brazil, 1995) 1997-2000 Dr. Demasi is currently a Professor at the University of Sao Paulo, Brazil.
26. Wakako Takabe, Ph.D. (Tokyo University, Japan, 2002) 2003-2005. Dr. Takabe has returned to a Research Assistant Professorship at the University of Tokyo.
27. Dr. Jenny Ngo (University of Southern California, 2008) 2009-2011. Dr. Ngo has taken a 2nd postdoctoral position with Dr. Steven Goodman at USC.
28. Gennady Ermak, Ph.D. (Belarussian State University, Minsk, 1991) 1996-2012. Dr. Ermak is now a senior researcher at Amgen.
29. Helen Johnston-Carey Ph.D. (George Washington University 2013) 2014 – Dr. Johnston-Carey is now an Assistant Professor at Yale University.
30. Rachel Raynes, Ph.D. (University of South Florida, 2012) 2013 – 2016. Dr. Raynes is now a senior researcher at University of California, Los Angeles.
31. Marcela Veléz-Alavez Ph.D. (Universidad Nacional Autónoma de México, 2015) 2016-2017. Dr. Veléz-Alavez is now an Assistant Professor at the Northwestern Centre of Biological Research [CIBNOR] in La Paz, Mexico. Mexico
32. Alessandra Fedoce. Ph.D. (University of São Paulo, 2015) 2016-2017. Dr. Fedoce is now a Senior Researcher at Boston University.
33. Laura C. D. Pomatto, Ph.D. (University of Southern California, 2017) Dr. Pomatto is now a senior researcher at the National Institute on Aging, Baltimore, Maryland.

Previous Graduate Students Trained

1. Ahmed Attalah, Ph.D. awarded 1987, University of Southern California
2. Mike Pagliosotti, (co-supervisor) Ph.D. awarded 1988, University of Southern California
3. Terry Catlin, M.S. awarded 1987, University of Southern California
4. Anne Brown, Ph.D. awarded 1990, University of Southern California
5. Jerome Zhang (co-supervisor), Ph.D. awarded 1991, University of Southern California
6. Amal Shafik Balbaa (co-supervisor) Ph.D. awarded 1992, Microbiology Section, Cairo University, Egypt
7. Robert E. Pacifici, Ph.D. awarded 1991, University of Southern California
8. David C. Salo, Ph.D. awarded 1992, University of Southern California
9. Anne C. Wiese, Ph.D. awarded 1992, University of Southern California
10. Sharon W. Lin, Ph.D. awarded 1993, University of Southern California
11. Diane E. Marotta, M.S. awarded 1993, Albany Medical College
12. Chinmay K. Mukhopadhuay (co-supervisor) Ph.D. awarded 1994, Department of Biochemistry, University of Calcutta, India
13. Odeniel Sertil, M.S. awarded 1996, Albany Medical College
14. Thomas Reinheckel (co-supervisor) M.D./Ph.D. awarded 1995, Medical Academy of Magdeburg, Germany
15. Devika Singh, M.S. awarded 1996, MD awarded 1999, Albany Medical College
16. Rachail Melathe, M.S. awarded 1996, Albany Medical College
17. Yanhong Wang, M.S. awarded 1995, Ph.D. awarded 1996, Albany Medical College

18. Kevin Leahy, M.S. awarded 1996, Ph.D. awarded 1997, MD awarded 2000, Albany Medical College
19. Paola Fabrizio, Ph.D. awarded 1998, University of Florence (Italy)
20. Rui Li, M.S. awarded 1997, University of Southern California
21. Reshma Shringapure, Ph.D. awarded 2002, University of Southern California
22. Daniella Bota, Ph.D. awarded 2002, University of Southern California
23. Cheryl Teoh, Ph.D. awarded 2007, University of Southern California
24. Jenny Ngo, Ph.D. awarded 2008, University of Southern California
25. Analisa Merlino (co-supervisor) Ph.D. awarded 2012 University of Turin, Italy
26. Robert Linder (2009-2012) Co-supervised Ph.D. student in USC's Molecular Biology program
27. April Hite (2010-2012) Co-supervised Ph.D. student in USC's Molecular Biology program
28. Andrew M. Pickering, Ph.D. awarded 2012, University of Southern California
29. Laura C. D. Pomatto, PhD Awarded 2017, University of Southern California

Some of the Undergraduate Students Previously Trained in my Laboratory (not a complete list)

Jason Arimoto (2003-2005)
 Grace Peng (2004-2006)
 Sean Sachdev (2007-2009) Now a tenured Associate Professor at Northwestern University
 Alison Koop (2007-2009)
 Kevin Chang (2008-2010)
 Michael Cheah (2008-2010)
 Kim H. Vu BA (2009-2011, 2010 USC McNair Scholar)
 Laura Corrales-Diaz Pomatto (2010-2012)
 Sarah Waliany (2010-2012)
 Lesya Vojtovich (2011-2015)
 Sonal Sojitra (2011-2013)
 Crystal Juarez (2014-2017)
 Caroline Carney Lindsay (2014-2017)
 Brenda Shen (2014-2016)
 Fei Yin (2014-2016)
 Janet Chu (2014-2015, 2016-2017)
 Brenda Niu (2015-2017)
 Christina Sisliyan (2016-2019)
 Kelsi Yu (2016-2018)
 Marie Danielian (2016-2018)
 Mayme Cline (2016-2019)
 Sarah Wong (2016-2018)

Undergraduate Student Winners of the USC Rose Hill Scholarships for Research (incomplete list)

Laura Corrales-Diaz Pomatto (senior - twice)
 Janet Chu (junior)
 Brenda Niu (junior)
 Christina Sisliyan
 Marie Danielian
 Sarah Wong

Undergraduate Student Winners of the USC Provost's Award for Research (incomplete list)

Marie Danielian
 Kevin Chang
 Sean Sachdev
 Laura Corrales-Diaz Pomatto (three times)
 Janet Chu (twice)
 Brenda Niu
 Sarah Wong
 Christina Sisliyan
 Marie Danielian
 Kelsi Yu