Michael J. Davies
Professor
Inflammation, Metabolism and Oxidation
Postal address:
Blegdamsvej 3
2200
København N.
Email: davies@sund.ku.dk
Mobile: +4523649445
Web address: https://bmi.ku.dk/english/research/inflammation-metabolism-and-oxidation/davies-group/

Short presentation

Prof. Michael Davies has pioneered studies on the formation and subsequent reactions of oxidants and other reactive species with proteins, DNA and carbohydrates, and the role of such reactions in biological damage. Recent publications are given at the “Research Output” tab above.
His group have made major contributions to the field of oxidants and oxidative damage. His work on protein modification and the detection and reactions of reactive intermediates is recognised nationally and internationally and has resulted in a number of significant awards, his editorship of journals and his election to a number of prestigious leadership positions in scientific societies.
He has held three prestigious fellowships from the Australian Research Council (QE2, Senior and Professorial), was Director of a (~25 million US$ per annum turnover) research institute, and led the Sydney (Australia) node of a highly-successful Australian Research Council Centre of Excellence in Free Radical Chemistry and Biotechnology (2006-2013) before moving to the University of Copenhagen, in 2014, after being awarded a Novo Nordisk Laureate research grant. This grant was subsequently renewed in 2021 for a further 7 year period.
Prof. Davies has published 416 peer-reviewed journal articles, 1 book, 8 edited volumes, 28 book chapters and 8 patents. His work has been cited ~ 41,600 (Google Scholar) / ~ 27,600 times (ISI Web of Science) as of April 2022. He has an h-index of 100 (Google Scholar) / 80 (ISI Web of Science) and an m-index (h index divided by number of years since first paper published) of ~2. His work is currently attracting > 2000 citations per year and he averages > 65 citations per paper (ISI data).

Selected Activities and Awards

President-Elect, Society for Free Radical Research - Europe
Davies, Michael J. (Participant)
2017 → 2018
Activity: Other activity types › Other

Society for Free Radical Research - Europe (External organisation)
Davies, Michael J. (Member)
2017 → 2018
Activity: Membership types › Membership in committee, council, board

President, Society for Free Radical Research International (External organisation)
Davies, Michael J. (Chair)
2013 → 2014
Activity: Membership types › Membership in research network

Redox Biology (Journal)
Davies, Michael J. (Member of Editorial Board)
2013 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Biomedical Spectroscopy and Imaging (Journal)
Davies, Michael J. (Member of Editorial Board)
2012 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Director and Board Member, Heart Research Institute (External organisation)
Davies, Michael J. (Board member)
2012 → 2014
Activity: Membership types › Membership in board of company or public organisation

Toxicology Research (Journal)
Davies, Michael J. (Member of Editorial Board)
2012 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

President-Elect, Society for Free Radical Research International (External organisation)
Davies, Michael J. (Chair)
2011 → 2012
Activity: Membership types › Membership in research network

Chairperson, Biomedical Science and Biotechnology Committee, Australian Institute of Nuclear Science and Engineering (External organisation)
Davies, Michael J. (Chair)
2010 → 2014
Activity: Membership types › Membership in committee, council, board

Associate Editor, Photochemistry and Photobiology (Journal)
Davies, Michael J. (Editor)
1 Jan 2009 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Biochemical Journal (Journal)
Davies, Michael J. (Editor)
1 Jan 2009 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Editor in Chief, Free Radical Research (Journal)
Davies, Michael J. (Editor)
1 Jan 2009 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Australian Research Council Professorial Fellowship
Davies, Michael J. (Award recipient)
2009 → 2013
Activity: Other activity types › Other (prizes, external teaching and other activities) - Prizes, scholarships, distinctions

Vice-President, International EPR Society (External organisation)
Davies, Michael J. (Board member)
2008 → 2011
Activity: Membership types › Membership in research network

Secretary-General, Society for Free Radical Research International (External organisation)
Davies, Michael J. (Secretary)
2007 → 2010
Activity: Membership types › Membership in research network

Journal of Clinical Biochemistry and Nutrition (Journal)
Davies, Michael J. (Member of Editorial Board)
2006 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Council member, American Society for Photobiology (External organisation)
Davies, Michael J. (Board member)
2005 → 2008
Activity: Membership types › Membership in research network

International Committee member, Oxygen Club of California (External organisation)
Davies, Michael J. (Member)
2005 → …
Activity: Membership types › Membership in research network

Management Committee, Australian Research Council Centre of Excellence in Free Radical Chemistry and Biotechnology (External organisation)
Davies, Michael J. (Board member)
2005 → 2013
Activity: Membership types › Membership in research network

Chemical Research in Toxicology (Journal)
Davies, Michael J. (Member of Editorial Board)
2003 → 2005
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Secretary and Public Officer, Mutagenesis and Experimental Pathology Society Australasia (External organisation)
Davies, Michael J. (Secretary)
2003 → 2005
Activity: Membership types › Membership in research network

Council member, Mutagenesis and Experimental Pathology Society Australasia (External organisation)
Davies, Michael J. (Board member)
2002 → 2007
Activity: Membership types › Membership in research network

Deputy Director, The Heart Research Institute (External organisation)
Davies, Michael J. (Board member)
2001 → 2012
Activity: Membership types › Membership in board of company or public organisation

President, Society for Free Radical Research (Australasia) (External organisation)
Davies, Michael J. (Chair)
2001 → 2003
Activity: Membership types › Membership in research network

Spectroscopy (Journal)
Davies, Michael J. (Member of Editorial Board)
2001 → 2012
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Australian Research Council Senior Fellowship
Davies, Michael J. (Award recipient)
2000 → 2005
Activity: Other activity types › Other (prizes, external teaching and other activities) - Prizes, scholarships, distinctions

Free Radical Biology and Medicine (Journal)
Davies, Michael J. (Member of Editorial Board)
2000 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Free Radical Research (Journal)
Davies, Michael J. (Member of Editorial Board)
2000 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

President-Elect, Society for Free Radical Research (Australasia) (External organisation)
Davies, Michael J. (Chair)
1999 → 2001
Activity: Membership types › Membership in research network

Biochemical Journal (Journal)
Davies, Michael J. (Member of Editorial Board)
1 Jan 1998 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Australian Research Council Queen Elizabeth 2 Fellowship
Davies, Michael J. (Award recipient)
1996 → 2000
Activity: Other activity types › Other (prizes, external teaching and other activities) - Prizes, scholarships, distinctions

Redox Report (Online) (Journal)
Davies, Michael J. (Member of Editorial Board)
1994 → …
Activity: Peer-review and editorial work types › Editor of Research journal › Research

Royal Society of Chemistry, ESR/EPR Specialist Periodical Reports (Journal)
Davies, Michael J. (Editor)
1993 → 2008
Activity: Peer-review and editorial work types › Editor of Series › Research

Royal Society of Chemistry, ESR Group Committee (External organisation)
Davies, Michael J. (Member)
1992 → 1995
Activity: Membership types › Membership in research network

Society for Free Radical Research, European Committee (External organisation)
Davies, Michael J. (Board member)
1992 → 1994
Activity: Membership types › Membership in research network

Bibliographic data

Prof. Davies has published 304 peer-reviewed journal articles, 1 book, 8 edited volumes, 25 book chapters and 5 patents. His work has been cited ~ 15,330 times as of March 2015 (ISI Web of Science). He has an h-index of 62 (ISI Web of Science) and an m-index (h index divided by number of years since first paper published) of ~2. His work is currently attracting > 1000 citations per year and he averages > 52 citations per paper.

Publications (2005 onwards only)

1. **Oxidation of the active site cysteine residue of glyceraldehyde-3-phosphate dehydrogenase to the hyper-oxidized sulfonic acid form is favored under crowded conditions**
   Glover, M. R., Davies, Michael J. & Fuentes Lemus, Eduardo, 2024, In: Free Radical Biology and Medicine. 212, p. 1-9 9 p.
2. **Proteomic analysis of the extracellular matrix of human atherosclerotic plaques shows marked changes between plaque types**
   Lorentzen, Lasse Gøbel, Yeung, K., Eldrup, Nikolaj, Eiberg, Jonas Peter, Sillesen, Henrik & Davies, Michael J., 2024, In: Matrix Biology Plus. 21, 14 p., 100141.

3. **Complexation of AAPH (2,2′-azobis(2-methylpropionamidine) dihydrochloride) with cucurbit[7]uril enhances the yield of AAPH-derived radicals**
Forero-Girón, A. C., Fuentealba, D., Mariño-Ocampo, N., Gutiérrez-Oliva, S., Herrera, B., Toro-Labbé, A., Fuentes Lemus, Eduardo, Davies, Michael J., Aliaga, M. E. & López-Alarcón, C., 2023, In: Journal of Molecular Liquids. 389, 9 p., 122840.

4. **Detrimental Actions of Chlorinated Nucleosides on the Function and Viability of Insulin-Producing Cells**
Sileikaite-Morvaközi, I., Hansen, W. H., Davies, Michael J., Mandrup-Poulsen, Thomas & Hawkins, Clare Louise, 2023, In: International Journal of Molecular Sciences. 24, 19, 13 p., 14585.

5. **Effect of crowding, compartmentalization and nanodomains on protein modification and redox signaling – current state and future challenges**
Fuentes Lemus, Eduardo & Davies, Michael J., 2023, In: Free Radical Biology and Medicine. 196, p. 81-92

6. **Exposure to peroxynitrite impacts the ability of anastellin to modulate the structure of extracellular matrix**
He, Jianfei, Chuang, Christine, Hawkins, Clare Louise, Davies, Michael J. & Hägglund, Per Mårten, 2023, In: Free Radical Biology and Medicine. 206, p. 83-93 11 p.

7. **Genotoxicity assessment of 1,4-anhydro-4-seleno-D-talitol (SeTal) in human liver HepG2 and HepaRG cells**
di Vito, R., Acito, M., Fatigoni, C., Schiesser, C. H., Davies, Michael J., Mangiavacchi, F., Villarini, M., Santi, C. & Moretti, M., 2023, In: Toxicology. 499, 153663.

8. **Hypochlorous Acid and Chloramines Induce Specific Fragmentation and Cross-Linking of the G1-IGD-G2 Domains of Recombinant Human Aggrecan, and Inhibit ADAMTS1 Activity**
Wang, Y., Hammer, A., Hoefler, G., Malle, E., Hawkins, Clare Louise, Chuang, Christine & Davies, Michael J., 2023, In: Antioxidants. 12, 2, 25 p., 420.

9. **Identification and quantification of protein nitration sites in human coronary artery smooth muscle cells in the absence and presence of peroxynitrous acid/peroxynitrite**
Xu, Shuqi, Chuang, Christine, Hawkins, Clare Louise, Hägglund, Per Mårten & Davies, Michael J., 2023, In: Redox Biology. 64, 13 p., 102799.

10. **Identification of bile acid-CoA:amino acid N-acyltransferase as the hepatic N-acyl taurine synthase for polyunsaturated fatty acids**
Trammell, Sam, Gamon, Luke Francis, Gotfryd, K., Michler, Katja Thorøe, Alrehaili, B. D., Rix, I., Knop, Filip Krag, Gourdon, Pontus Emanuel, Lee, Y. K., Davies, Michael J., Gillum, M. P. & Grevengoed, Trisha Jean, 2023, In: Journal of Lipid Research. 64, 9, 9 p., 100361.

11. **Identification of galectin-1 and other cellular targets of alpha,beta-unsaturated carbonyl compounds, including dimethylfumarate, by use of click-chemistry probes**
Sauerland, Max Benjamin, Helm, C., Lorentzen, Lasse Gøbel, Manandhar, Asmita, Ulven, Trond, Gamon, Luke Francis & Davies, Michael J., 2023, In: Redox Biology. 59, 15 p., 102560.

12. **Multiple oxidative post-translational modifications of human glutamine synthetase mediate peroxynitrite-dependent enzyme inactivation and aggregation**
Campolo, N., Mastrogiovanni, M., Mariotti, M., Issoglio, F. M., Estrin, D., Hägglund, Per Mårten, Grune, T., Davies, Michael J., Bartesaghi, S. & Radi, R., 2023, In: Journal of Biological Chemistry. 299, 3, 22 p., 102941.

13. **Myeloperoxidase Alters Lung Cancer Cell Function to Benefit Their Survival**
Cosic-Mujkanovic, N., Valadez-Cosmes, P., Maitz, K., Lueger, A., Mihalic, Z. N., Runtsch, M. C., Kienzl, M., Davies, Michael J., Chuang, Christine, Heinemann, A., Schicho, R., Marsche, G. & Kargl, J., 2023, In: Antioxidants. 12, 8, 17 p., 1587.

14. **Oxidant-modified amylin fibrils and aggregates alter the inflammatory profile of multiple myeloid cell types, but are non-toxic to islet β cells**
Clemen, R., Fuentes Lemus, Eduardo, Bekeschus, S. & Davies, Michael J., 2023, In: Redox Biology. 65, 14 p., 102835.

15. **Oxygen Exposure and Tolerance Shapes the Cell Wall-Associated Lipids of the Skin Commensal Cutibacterium acnes**
Popa, I., Touboul, D., Andersson, T., Fuentes Lemus, Eduardo, Santerre, C., Davies, Michael J. & Lood, R., 2023, In: Microorganisms. 11, 9, 15 p., 2260.

16. **Peroxyl radicals modify 6-phosphogluconolactonase from Escherichia coli via oxidation of specific amino acids and aggregation which inhibits enzyme activity**
Reyes, J. S., Fuentes Lemus, Eduardo, Romero, J., Arenas, F., Fierro, A., Davies, Michael J. & López-Alarcón, C., 2023, In: Free Radical Biology and Medicine. 204, p. 118-127

17. **Recent Advances in the Synthesis and Antioxidant Activity of Low Molecular Mass Organoselenium Molecules**
Anghinoni, J. M., Birmann, P. T., da Rocha, M. J., Gomes, C. S., Davies, Michael J., Brüning, C. A., Savegnago, L. & Lenardão, E. J., 2023, In: Molecules. 28, 21, p. 1-45 7349.

18. **The cysteine residue in beta-lactoglobulin reacts with oxidized tyrosine residues in beta-casein to give casein-lactoglobulin dimers**
Doblas, L., Hägglund, Per Mårten, Fuentes Lemus, Eduardo & Davies, Michael J., 2023, In: Archives of Biochemistry and Biophysics. 733, 7 p., 109482.

19. **The enzymes of the oxidative phase of the pentose phosphate pathway as targets of reactive species: consequences for NADPH production**
Fuentes Lemus, Eduardo, Reyes, J. S., Figueroa, J. D., Davies, Michael J. & López-Alarcón, C., 2023, In: Biochemical Society Transactions. 51, 6, p. 2173–2187

20. **The inflammatory oxidant peroxynitrous acid modulates the structure and function of the recombinant human V3 isoform of the extracellular matrix proteoglycan versican**
Jørgensen, Sara Marthedal, Lorentzen, Lasse Gøbel, Hammer, A., Hoefler, G., Malle, E., Chuang, Christine & Davies, Michael J., 2023, In: Redox Biology. 64, 19 p., 102794.

21. **The structure of model and peptide disulfides markedly affects their reactivity and products formed with singlet oxygen**
Gao, Qing, Grzyb, K., Gamon, Luke Francis, Ogilby, P. R., Pędziński, T. & Davies, Michael J., 2023, In: Free Radical Biology and Medicine. 207, p. 320-329

22. **Treating atopic-dermatitis-like skin lesions in mice with gelatin-alginate films containing 1,4-anhydro-4-seleno-D-talitol (SeTal)**
Voss, G. T., Davies, Michael J., Schiesser, C. H., de Oliveira, R. L., Nornberg, A. B., Soares, V. R., Barcellos, A. M., Luchese, C., Fajardo, A. R. & Wilhelm, E. A., 2023, In: International Journal of Pharmaceutics. 642, 13 p., 123174.

23. **Electrophile versus oxidant modification of cysteine residues: Kinetics as a key driver of protein modification**
Sauerland, Max Benjamin & Davies, Michael J., 30 Sep 2022, In: Archives of Biochemistry and Biophysics. 727, 10 p., 109344.

24. **Activation and Inhibition of Human Matrix Metalloproteinase-9 (MMP9) by HOCl, Myeloperoxidase and Chloramines**
Wang, Y., Chuang, Christine, Hawkins, Clare Louise & Davies, Michael J., Aug 2022, In: Antioxidants. 11, 8, 22 p., 1616.

25. **Oxidative Crosslinking of Peptides and Proteins: Mechanisms of Formation, Detection, Characterization and Quantification**
Fuentes Lemus, Eduardo, Hägglund, Per Mårten, López-Alarcón, C. & Davies, Michael J., 1 Jan 2022, In: Molecules. 27, 1, p. 1-31 15.

26. **Adduction reactions of alpha,beta-unsaturated aldehydes to proteins**
Davies, Michael J., 2022, In: Toxicology Letters. 368, Suppl, p. S62-S62 1 p.

27. **Anastellin impacts on the processing of extracellular matrix fibronectin and stimulates release of cytokines from coronary artery smooth muscle cells**
He, Jianfei, Steffen, Jonas Hyld, Thulstrup, Peter Waaben, Pedersen, J. N., Sauerland, Max Benjamin, Otzen, D. E., Hawkins, Clare Louise, Gourdon, Pontus Emanuel, Davies, Michael J. & Hägglund, Per Mårten, 2022, In: Scientific Reports. 12, 1, 15 p., 22051.

28. **Aryl Fluorosulfate Based Inhibitors That Covalently Target the SIRT5 Lysine Deacylase****
Bolding, J. E., Martín-Gago, P., Rajabi, N., Gamon, Luke Francis, Hansen, T. N., Bartling, Christian Reinhard Otto, Strømgaard, Kristian, Davies, Michael J. & Olsen, Christian Adam, 2022, In: Angewandte Chemie - International Edition. 61, 47, 11 p., e202204565.

29. **Crowding modulates the glycation of plasma proteins: *In vitro* analysis of structural modifications to albumin and transferrin and identification of sites of modification**
Fuentes Lemus, Eduardo, Reyes, J. S., López-Alarcón, C. & Davies, Michael J., 2022, In: Free Radical Biology and Medicine. 193, p. 551-566 16 p.

30. **Defining roles of specific reactive oxygen species (ROS) in cell biology and physiology**
Sies, H., Belousov, V. V., Chandel, N. S., Davies, Michael J., Jones, D. P., Mann, G. E., Murphy, M. P., Yamamoto, M. & Winterbourn, C., 2022, In: Nature Reviews Molecular Cell Biology. 23, p. 499–515

31. **Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo**
Murphy, M. P., Bayir, H., Belousov, V., Chang, C. J., Davies, K. J. A., Davies, M. J., Dick, T. P., Finkel, T., Forman, H. J., Janssen-Heininger, Y., Gems, D., Kagan, V. E., Kalyanaraman, B., Larsson, N. G., Milne, G. L., Nyström, T., Poulsen, H. E., Radi, R., Van Remmen, H., Schumacker, P. T. & 5 others, Thornalley, P. J., Toyokuni, S., Winterbourn, C. C., Yin, H. & Halliwell, B., 2022, In: Nature Metabolism. 4, 6, p. 651-662

32. **Implications of differential peroxyl radical-induced inactivation of glucose 6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase for the pentose phosphate pathway**
Reyes, J. S., Fuentes Lemus, Eduardo, Figueroa, J. D., Rojas, J., Fierro, A., Arenas, F., Hägglund, Per Mårten, Davies, Michael J. & López-Alarcón, C., 2022, In: Scientific Reports. 12, 1, 19 p., 21191.

33. **In memoriam: Emeritus Professor Robin L. Willson**
Davies, Michael J., Davies, K. J. A., Halliwell, B., Jackson, M. J., Mann, G. E., Poli, G., Radi, R., Riley, P. A., Sies, H., Ward, J. F., Wardman, P. & Willson, J., 2022, In: Free Radical Research. 56, 7-8, p. 572-576 5 p.

34. **Influence of plasma halide, pseudohalide and nitrite ions on myeloperoxidase-mediated protein and extracellular matrix damage**
Xu, Shuqi, Chuang, Christine, Malle, E., Gamon, Luke Francis, Hawkins, Clare Louise & Davies, Michael J., 2022, In: Free Radical Biology and Medicine. 188, p. 162-174

35. **Loss of Nuclear Envelope Integrity and Increased Oxidant Production Cause DNA Damage in Adult Hearts Deficient in PKP2: A Molecular Substrate of ARVC**
Perez-Hernandez, M., van Opbergen, C. J. M., Bagwan, N., Vissing, C. R., Marron-Linares, G. M., Zhang, M., Vega, E. T., Sorrentino, A., Drici, L., Sulek, K., Zhai, R., Hansen, F. B., Christensen, A. H., Boesgaard, S., Gustafsson, F., Rossing, K., Small, E. M., Davies, M. J., Rothenberg, E., Sato, P. Y. & 6 others, Cerrone, M., Jensen, Thomas Hartvig Lindkær, Qvortrup, Klaus, Bundgård, Henning, Delmar, M. & Lundby, Alicia, 2022, In: Circulation. 146, 11, p. 851-867

36. **Oxidant-mediated modification and cross-linking of beta-2-microglobulin**
Jiang, S., Fuentes Lemus, Eduardo & Davies, Michael J., 2022, In: Free Radical Biology and Medicine. 187, p. 59-71

37. **Peroxynitrous acid-modified extracellular matrix alters gene and protein expression in human coronary artery smooth muscle cells and induces a pro-inflammatory phenotype**
Jørgensen, Sara Marthedal, Lorentzen, Lasse Gøbel, Chuang, Christine & Davies, Michael J., 2022, In: Free Radical Biology and Medicine. 186, p. 43-52

38. **Proteomic Characterization of Atherosclerotic Lesions in Situ Using Percutaneous Coronary Intervention Angioplasty Balloons-Brief Report**
Lorentzen, Lasse Gøbel, Hansen, G. M., Iversen, Kasper, Bundgård, Henning & Davies, Michael J., 2022, In: Arteriosclerosis, Thrombosis, and Vascular Biology. 42, 7, p. 857-864

39. **Reaction of cysteine residues with oxidized tyrosine residues mediates cross-linking of photo-oxidized casein proteins**
Rossi, C., Fuentes Lemus, Eduardo & Davies, Michael J., 2022, In: Food Chemistry. 385, 7 p., 132667.

40. **Role of amino acid oxidation and protein unfolding in peroxyl radical and peroxynitrite-induced inactivation of glucose-6-phosphate dehydrogenase from Leuconostoc mesenteroides**
Figueroa, J. D., Fuentes Lemus, Eduardo, Reyes, J. S., Loaiza, M., Aliaga, M. E., Fierro, A., Leinisch, F., Hägglund, Per Mårten, Davies, Michael J. & López-Alarcón, C., 2022, In: Free Radical Biology and Medicine. 190, p. 292-306

41. **Structural Basis for Dityrosine-Mediated Inhibition of alpha-Synuclein Fibrillization**
Sahin, C., Osterlund, E. C., Osterlund, N., Costeira-Paulo, J., Pedersen, J. N., Christiansen, G., Nielsen, J., Grønnemose, A. L., Amstrup, S. K., Tiwari, M. K., Rao, R. S. P., Bjerrum, Morten Jannik, Ilag, L. L., Davies, Michael J., Marklund, E. G., Pedersen, J. S., Landreh, M., Moller, I. M., Jorgensen, T. J. D. & Otzen, D. E., 2022, In: Journal of the American Chemical Society. 144, 27, p. 11949-11954 6 p.

42. **Synthesis and cellular evaluation of click-chemistry probes to study the biological effects of alpha, beta-unsaturated carbonyls**
Morozzi, C., Sauerland, M., Gamon, Luke Francis, Manandhar, Asmita, Ulven, Trond & Davies, Michael J., 2022, In: Redox Biology. 52, 8 p., 102299.

43. **The Use of Membrane Filtration to Increase Native Whey Proteins in Infant Formula**
Chen, Y., Callanan, M., Shanahan, C., Tobin, J., Gamon, Luke Francis, Davies, Michael J., Giblin, L. & Brodkorb, A., Sep 2021, In: Dairy. 2, 4, p. 515-529

44. **Modulation of hypochlorous acid (HOCl) induced damage to vascular smooth muscle cells by thiocyanate and selenium analogues**
Flouda, K., Gammelgaard, Bente, Davies, Michael J. & Hawkins, Clare Louise, May 2021, In: Redox Biology. 41, 101873.

45. **Reactivity of Peroxidase-Derived Oxidants with Proteins, Glycoproteins and Proteoglycans**
Davies, Michael J., 1 Jan 2021, *Mammalian Heme Peroxidases: Diverse Roles in Health and Disease.* CRC Press, p. 53-77

46. **"What, where and how much? Key challenges in protein oxidation"**
Davies, Michael J., 2021, In: Free Radical Biology and Medicine. 165, Suppl. 1, p. 15-15 Suppl. 13-1.

47. **Anthocyanin complex niosome gel accelerates oral wound healing: In vitro and clinical studies**
Damrongrungruang, T., Paphangkorakit, J., Limsitthichaikoon, S., Khampaenjiraroch, B., Davies, Michael J., Sungthong, B. & Priprem, A., 2021, In: Nanomedicine: Nanotechnology, Biology, and Medicine. 37, 14 p., 102423.

48. **Chlorination and nitration of extracellular matrix by inflammatory myeloperoxidase-derived oxidants in the presence of nitrite**
Xu, Shuqi, Chuang, Christine, Hawkins, Clare Louise & Davies, Michael J., 2021, In: Free Radical Biology and Medicine. 177, Suppl. 1, p. 566 1 p.

49. **Cross-linking and modification of fibronectin by peroxynitrous acid: Mapping and quantification of damage provides a new model for domain interactions**
Mariotti, M., Rogowska-Wrzesinska, A., Hägglund, Per Mårten & Davies, Michael J., 2021, In: Journal of Biological Chemistry. 296, 100360.

50. **Crosslinking of human plasma C-reactive protein to human serum albumin via disulfide bond oxidation**
Jiang, S., Hägglund, Per Mårten, Carroll, L., Rasmussen, L. M. & Davies, Michael J., 2021, In: Redox Biology. 41, 17 p., 101925.

51. **Dynein regulates Kv7.4 channel trafficking from the cell membrane**
van der Horst, Jennifer, Rognant, Salomé, Abbott, G. W., Ozhathil, Lijo Cherian, Hägglund, Per Mårten, Barrese, V., Chuang, Christine, Jespersen, Thomas, Davies, Michael J., Greenwood, I. A., Gourdon, Pontus Emanuel, Aalkjær, Christian & Jepps, Thomas Andrew Qvistgaard, 2021, In: Journal of General Physiology. 153, 3, 19 p., e202012760.

52. **Effect of macromolecular crowding on protein oxidation: Consequences on the rate, extent and oxidation pathways**
Fuentes Lemus, Eduardo, Reyes, J. S., Gamon, Luke Francis, López-Alarcón, C. & Davies, Michael J., 2021, In: Redox Biology. 48, 15 p., 102202.

53. **Enzymatic cross-linking of collagens in organ fibrosis - resolution and assessment**
Pehrsson, M., Mortensen, J. H., Manon-Jensen, T., Bay-Jensen, A., Karsdal, M. A. & Davies, Michael J., 2021, In: Expert Review of Molecular Diagnostics. 21, 10, p. 1049-1064

54. **Formation of protein cross-links by singlet oxygen-mediated disulfide oxidation**
Jiang, S., Carroll, L., Mariotti, M., Hägglund, Per Mårten & Davies, Michael J., 2021, In: Redox Biology. 41, 16 p., 101874.

55. **High concentrations of casein proteins exacerbate radical chain reactions and increase the extent of oxidative damage**
Fuentes Lemus, Eduardo, Jiang, S., Hägglund, Per Mårten & Davies, Michael J., 2021, In: Food Hydrocolloids. 121, 16 p., 107060.

56. **Hypoxia of human endothelial artery wall cells affects arterial extracellular matrix remodelling and contributes to atherosclerosis development**
Huang, S., Chuang, Christine & Davies, Michael J., 2021, In: Free Radical Biology and Medicine. 177, Suppl. 1, p. 563 1 p.

57. **Kinetic assessment of Michael addition reactions of alpha, beta-unsaturated carbonyl compounds to amino acid and protein thiols**
Sauerland, M., Mertes, R., Morozzi, C., Eggler, A. L., Gamon, Luke Francis & Davies, Michael J., 2021, In: Free Radical Biology and Medicine. 169, p. 1-11 569.

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Activities

President-Elect, Society for Free Radical Research - Europe
Davies, Michael J. (Participant)
2017 → 2018

Society for Free Radical Research - Europe (External organisation)
Davies, Michael J. (Member)
2017 → 2018

President, Society for Free Radical Research International (External organisation)
Davies, Michael J. (Chair)
2013 → 2014

Redox Biology (Journal)
Davies, Michael J. (Member of Editorial Board)
2013 → …

Biomedical Spectroscopy and Imaging (Journal)
Davies, Michael J. (Member of Editorial Board)
2012 → …

Director and Board Member, Heart Research Institute (External organisation)
Davies, Michael J. (Board member)
2012 → 2014

Toxicology Research (Journal)
Davies, Michael J. (Member of Editorial Board)

2012 → …

President-Elect, Society for Free Radical Research International (External organisation)
Davies, Michael J. (Chair)
2011 → 2012

Chairperson, Biomedical Science and Biotechnology Committee, Australian Institute of Nuclear Science and Engineering (External organisation)
Davies, Michael J. (Chair)
2010 → 2014

Associate Editor, Photochemistry and Photobiology (Journal)
Davies, Michael J. (Editor)
1 Jan 2009 → …

Biochemical Journal (Journal)
Davies, Michael J. (Editor)
1 Jan 2009 → …

Editor in Chief, Free Radical Research (Journal)
Davies, Michael J. (Editor)
1 Jan 2009 → …

Australian Research Council Professorial Fellowship
Davies, Michael J. (Award recipient)
2009 → 2013

Vice-President, International EPR Society (External organisation)
Davies, Michael J. (Board member)
2008 → 2011

Secretary-General, Society for Free Radical Research International (External organisation)
Davies, Michael J. (Secretary)
2007 → 2010

Journal of Clinical Biochemistry and Nutrition (Journal)
Davies, Michael J. (Member of Editorial Board)
2006 → …

Council member, American Society for Photobiology (External organisation)
Davies, Michael J. (Board member)
2005 → 2008

International Committee member, Oxygen Club of California (External organisation)
Davies, Michael J. (Member)
2005 → …

Management Committee, Australian Research Council Centre of Excellence in Free Radical Chemistry and Biotechnology (External organisation)
Davies, Michael J. (Board member)
2005 → 2013

Chemical Research in Toxicology (Journal)
Davies, Michael J. (Member of Editorial Board)
2003 → 2005

Secretary and Public Officer, Mutagenesis and Experimental Pathology Society Australasia (External organisation)
Davies, Michael J. (Secretary)
2003 → 2005

Council member, Mutagenesis and Experimental Pathology Society Australasia (External organisation)
Davies, Michael J. (Board member)
2002 → 2007

Deputy Director, The Heart Research Institute (External organisation)
Davies, Michael J. (Board member)
2001 → 2012

President, Society for Free Radical Research (Australasia) (External organisation)
Davies, Michael J. (Chair)
2001 → 2003

Spectroscopy (Journal)
Davies, Michael J. (Member of Editorial Board)
2001 → 2012

Australian Research Council Senior Fellowship
Davies, Michael J. (Award recipient)
2000 → 2005

Free Radical Biology and Medicine (Journal)
Davies, Michael J. (Member of Editorial Board)
2000 → …

Free Radical Research (Journal)
Davies, Michael J. (Member of Editorial Board)
2000 → …

President-Elect, Society for Free Radical Research (Australasia) (External organisation)
Davies, Michael J. (Chair)
1999 → 2001

Biochemical Journal (Journal)
Davies, Michael J. (Member of Editorial Board)
1 Jan 1998 → …

Australian Research Council Queen Elizabeth 2 Fellowship
Davies, Michael J. (Award recipient)
1996 → 2000

Redox Report (Online) (Journal)
Davies, Michael J. (Member of Editorial Board)
1994 → …

Royal Society of Chemistry, ESR/EPR Specialist Periodical Reports (Journal)
Davies, Michael J. (Editor)
1993 → 2008

Royal Society of Chemistry, ESR Group Committee (External organisation)
Davies, Michael J. (Member)
1992 → 1995

Society for Free Radical Research, European Committee (External organisation)
Davies, Michael J. (Board member)
1992 → 1994