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## Career

2015-present. Honorary Professor, University College London, U.K.  
2005-14. Professor of Biochemistry, Queen Mary University of London, U.K.  
2005-09. Royal Society–Wolfson Research Merit Award Holder.  
1992-2004. Professor of Plant Cell Biology, Lund University, Sweden.  
1990-92. Professor of Plant Physiology, University of Oslo, Norway.  
1983-89. Lecturer, Department of Pure and Applied Biology, University of Leeds, U.K.  
1986-87. Nuffield Foundation Science Research Fellow. Lawrence Berkeley Laboratory, University of California, Berkeley, California, U.S.A.  
1979-83. Postdoctoral Research Assistant, Department of Biological Sciences, University of Warwick, U.K.  
1980. Visiting Research Associate, University of Illinois, Urbana, Illinois, U.S.A.  
1975-77. SRC Postdoctoral Research Fellow, Botany School, University of Oxford, U.K.

## Education

BSc *London*. School of Biological Sciences, King's College London, 1972.  
PhD *London*. King's College London, 1975.  
Postgraduate Certificate in Education. Oxford University, 1979.  
Secondary. Hartridge High School, Newport, Monmouthshire, U.K.

## Recent Honours and Awards

2015-present. Leverhulme Emeritus Research Fellow  
2012-13. Visiting Professor, Genetics, Evolution and Environment, University College London.  
2009-present. Fellow of the Linnean Society of London.  
2009-10. Fellow of the Institute of Biology.  
2009. Rudi Lemberg Fellow of the Australian Academy of Sciences.  
2007. William Evans Fellow, Otago University, New Zealand.

## Research Grants

Total 36 separate awards from Research Councils, Trusts and Foundations in U.K. (Leverhulme, Wellcome, Royal Society, Nuffield Foundation, SERC, BBSRC, NERC), Norway (NAVF, Nordic Energy Research Programme), Sweden (Vetenskapsrådet, Crafoord, Schyberg, and other Foundations), and the European Commission.

## Distinguished Doctoral and Postdoctoral Researchers

Sujith Puthiyaveetil (MSc *Jawaharlal Nehru University*, PhD *London*) Research Student 2003-2005 (Lund) 2005-2009 (London), Postdoctoral Researcher 2009-2012, later (2022) Associate Professor of Biochemistry, Purdue University; Thomas Pfannschmidt (PhD *Bochum*) DFG Postdoctoral Researcher 1996-97, later Professor of Plant Physiology, Leibniz University, Hannover; Nicholas F. Tsinoremas (PhD *Leeds*) Research Student 1988-91, later Professor of Medicine and Director of the University of Miami Center for Computational Science, School of Medicine, University of Miami; Michael A. Harrison, (PhD *Leeds*) Research Student 1987-90, later Lecturer in the School of Biomedical Sciences, University of Leeds; Conrad W. Mullineaux (PhD *Leeds*) Research Student 1985-88, later Professor of Microbiology and Head of Department of Biochemistry, Queen Mary University of London.

## Seminars, invited lectures, contributions to scientific meetings

> 300 presentations, in 22 countries and 4 continents, of which 24 are plenary or named lectures.

## Sample publications from the last ten years

Allen JF, Nield J, Krauß N (2019) Molecular recognition: how photosynthesis anchors the mobile antenna. *Trends in Plant Science* 24: 388-392.

- Allen JF, Thake B, Martin WF (2019) Nitrogenase inhibition limited oxygenation of Earth's Proterozoic atmosphere. *Trends in Plant Science* 24: 1022-1031.
- Allen JF (2017) The CoRR hypothesis for genes in organelles. *Journal of Theoretical Biology*. 434: 50-57 .
- Allen JF (2017) Why we need to know the structure of phosphorylated chloroplast light harvesting complex II. *Physiologia Plantarum*. 161: 28-44
- Allen JF (2015) Why chloroplasts and mitochondria retain their own genomes and genetic systems: colocalization for redox regulation of gene expression. *Proceedings of the National Academy of Sciences of the United States of America* 112: 10231–10238.
- Allen JF, de Paula WBM (2013) Mitochondrial genome function and maternal inheritance. *Biochemical Society Transactions* 41 (5): 1298-1304.
- de Paula WBM, Lucas CH, Agip A-NA, Vizcay-Barrena G, Allen JF (2013) Energy, ageing, fidelity and sex. Oocyte mitochondrial DNA as a protected genetic template. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 368: 20120267.
- Puthiyaveetil S, Ibrahim IM, Allen JF (2013) Evolutionary rewiring: a modified prokaryotic gene regulatory pathway in chloroplasts. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 368: 20120260.
- Pesole G, Allen JF, Lane N, Martin W, Rand DM, Schatz G, Saccone C (2012) The neglected genome. *EMBO Reports* 13(6): 473–474.
- de Paula WBM, Allen JF, van der Giezen M (2012) Mitochondria, hydrogenosomes and mitosomes in relation to the CoRR hypothesis for genome function and evolution. In: Bullerwell CE (ed) *Organelle Genetics*. Springer, Berlin and Heidelberg, pp. 105-119.

#### **Twelve most highly cited publications by Google Scholar; descending numerical rank order**

- Allen JF (1992) Protein phosphorylation in regulation of photosynthesis. *Biochimica et Biophysica Acta* 1098: 275-335.
- Allen JF, Bennett J, Steinback KE, Arntzen CJ (1981) Chloroplast protein phosphorylation couples plastoquinone redox state to distribution of excitation energy between photosystems. *Nature* 291: 25-29.
- Pfannschmidt T, Nilsson A, Allen JF (1999) Photosynthetic control of chloroplast gene expression. *Nature* 397: 625-628.
- Allen JF, Forsberg J (2001) Molecular recognition in thylakoid structure and function. *Trends in Plant Science* 6: 317-326.
- Allen JF (1993) Control of Gene Expression by Redox Potential and the Requirement for Chloroplast and Mitochondrial Genomes. *Journal of Theoretical Biology* 165: 609-631.
- Allen JF (2003) Cyclic, pseudocyclic and noncyclic photophosphorylation: new links in the chain. *Trends in Plant Science* 8: 15-19.
- Allen JF (2003) The function of genomes in bioenergetic organelles. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 358: 19-37.
- Allen JF (2003) State transitions - a question of balance. *Science* 299: 1530-1532.
- Williams WP, Allen JF (1987) State-1/State-2 changes in higher plants and algae. *Photosynthesis Research* 13: 19-45.
- Deusch O, Landan G, Roettger M, Gruenheit N, Kowallik KV, Allen JF, Martin W, Dagan T (2008) Genes of cyanobacterial origin in plant nuclear genomes point to a heterocyst-forming plastid ancestor. *Molecular Biology and Evolution* 25: 748-761.
- Allen JF (2002) Photosynthesis of ATP - Electrons, proton pumps, rotors, and poise. *Cell* 110: 273-276.
- Lane N, Allen JF, Martin W (2010) How did LUCA make a living? Chemiosmosis in the origin of life. *Bioessays* 32: 271-280.

**Nationality** U.K. • **Date of Birth** 23 June 1950 • **Civil Status** Married; six children.

#### **Address**

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#### **E-mail address**

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