

# Curriculum vitae of John F. Allen

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

## Career

2005-present. 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 One-Year Science Research Fellow. Lawrence Berkeley Laboratory, University of California, Berkeley, California, U.S.A.  
1979-83. SERC 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

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

## Recent Awards

2009. Elected to Fellowship of the Linnean Society of London.  
2009. Rudi Lemberg Fellowship of the Australian Academy of Sciences.  
2007. William Evans Fellowship, Otago University, New Zealand.

## Research Grants

Continuous external support since 1983. Total 32 separate awards from Foundations and Research Councils in U.K. (Wellcome, Royal Society, Nuffield Foundation, SERC, BBSRC, NERC), Norway, Sweden (V.R., Crafoord and other Foundations), and the European Commission. Notable current research grant (with Curran, Cuming, Krauß), 2010-13: Leverhulme Trust *Why do chloroplasts and mitochondria retain their own genetic systems?*

## Current Research Laboratory Members

Dr Fang Huang (PhD *Leiden*), Mr Iskander Ibrahim (BSc *London*), Mr Wilson de Paula (MSc *Nebraska*), Dr Sujith Puthiyaveetil (PhD *London*).

## Distinguished Doctoral and Postdoctoral Researchers

Conrad W. Mullineaux (PhD *Leeds*) Research Student 1985-88, now Professor of Microbiology, Queen Mary University of London; Michael A. Harrison, (PhD *Leeds*) Research Student 1987-90, now Senior Lecturer in Membrane and Systems Biology, University of Leeds; Nikos F. Tsinoremas (PhD *Leeds*) Research Student 1988-91, now Professor and Director of Bioinformatics, School of Medicine, University of Miami; Dr Thomas Pfannschmidt (PhD *Bochum*) DFG Postdoctoral Researcher 1996-97, now Professor of Plant Molecular Biology, University of Jena.

## Seminars, invited lectures, contributions to meetings

~200 since 1980, in 15 countries and 4 continents, including plenary and named lectures.

## Twelve selected publications from the last five years

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.

- Allen JF, de Paula WBM, Puthiyaveetil S, Nield J (2011) A structural phylogenetic map for chloroplast photosynthesis. *Trends in Plant Science* 16(12): 645-655.
- Allen JF, Santabarbara S, Allen CA, Puthiyaveetil S (2011) Discrete redox signaling pathways regulate photosynthetic light-harvesting and chloroplast gene transcription. *PLoS ONE* 6(10): e26372.
- Allen JF (2010) Redox homeostasis in the emergence of life. On the constant internal environment of nascent living cells. *Journal of Cosmology* 10: 3362-3373.
- Allen JF (2010) Research and how to promote it in a university. *Future Medicinal Chemistry* 2: 15-20.
- Lane N, Allen JF, Martin W (2010) How did LUCA make a living? Chemiosmosis in the origin of life. *Bioessays* 32: 271-280.
- Puthiyaveetil S, Allen JF (2009) Chloroplast two-component systems: evolution of the link between photosynthesis and gene expression. *Proceedings of the Royal Society B-Biological Sciences* 276: 2133-2145.
- Allen JF, Gantt E, Golbeck JH, Osmond B (Eds) *Photosynthesis. Energy from the Sun*. 14th International Congress on Photosynthesis. Springer, Heidelberg, 2008. 1,715 pages 2 volumes.
- 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.
- Puthiyaveetil S, Allen JF (2008) Transients in chloroplast gene transcription. *Biochemical and Biophysical Research Communications* 368: 871-874.
- Puthiyaveetil S, Kavanagh TA, Cain P, Sullivan JA, Newell CA, Gray JC, Robinson C, Giezen Mvd, Rogers MB, Allen JF (2008) The ancestral symbiont sensor kinase CSK links photosynthesis with gene expression in chloroplasts. *Proceedings of the National Academy of Sciences of the United States of America* 105: 10061-10066.
- Allen JF, Martin W (2007) Evolutionary biology – Out of thin air. *Nature* 445: 610-612.

#### **Twelve most highly cited publications, Web of Science; 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.
- Williams WP, Allen JF (1987) State-1/State-2 changes in higher plants and algae. *Photosynthesis Research* 13: 19-45.
- 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 (1995) Thylakoid protein phosphorylation, state-1-state-2 transitions, and photosystem stoichiometry adjustment - redox control at multiple levels of gene expression. *Physiologia Plantarum* 93: 196-205.
- Smith BM, Morrissey PJ, Guenther JE, Nemson JA, Harrison MA, Allen JF, Melis A (1990) Response of the photosynthetic apparatus in *Dunaliella salina* (Green Algae) to irradiance stress. *Plant Physiology* 93: 1433-1440.
- Allen JF, Hall DO (1973) Superoxide reduction as a mechanism of ascorbate-stimulated oxygen uptake by isolated chloroplasts. *Biochemical and Biophysical Research Communications* 52: 856-862.
- Allen JF, Sanders CE, Holmes NG (1985) Correlation of membrane protein phosphorylation with excitation energy distribution in the cyanobacterium *Synechococcus* 6301. *FEBS Letters* 193: 271-275.
- Allen JF (2003) Cyclic, pseudocyclic and noncyclic photophosphorylation: new links in the chain. *Trends in Plant Science* 8: 15-19.
- Allen JF (1992) How does protein phosphorylation regulate photosynthesis? *Trends in Biochemical Sciences* 17: 12-17.

**h-index**             $h = 40$  (Web of Science);  $h = 43$  (Google Scholar).