

Curriculum vitae of John F. Allen

jfallen.org

Nationality U.K. **Civil Status** Married; three sons, three daughters.

Career History

2005-present. Professor of Biochemistry, Queen Mary, University of London, U.K.

2005-2009. The Royal Society-Wolfson Research Merit Award *Energy and Genome Function*.

1992-2004. Professor of Plant Cell Biology, Lund University, Sweden.

1990-92. Professor of Plant Physiology, Biology Department, 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 (FLS).

2009. Rudi Lemberg Fellowship (Australian Academy of Sciences).

2008. Elected to Fellowship of the Institute of Biology (FIBiol).

2007. William Evans Fellowship (Otago University, New Zealand).

Research Grants

Continuous support since 1983. Total 31 separate awards from Foundations and Research Councils in UK (Wellcome, Royal Society, Nuffield Foundation, SERC, BBSRC, NERC), Norway, Sweden (VR, Crafoord and other Foundations), and European Commission.

Seminars, invited lectures, contributions to meetings

~190 since 1980, in 15 countries and 4 continents.

Selected publications from the last six years

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*. doi:10.1098/rspb.2008.1426.

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.

Kirchoff H, Haferkamp S, Allen JF, Epstein DBA, Mullineaux CW (2008) Protein diffusion and macromolecular crowding in thylakoid membranes. *Plant Physiology* 146: 1571-1578.

Puthiyaveetil S, Allen JF (2008) Transients in chloroplast gene transcription. *Biochemical and Biophysical Research Communications* 368: 871-874.

Puthiyaveetil S, Allen JF (2008) A bacterial-type sensor kinase couples electron transport to gene expression in chloroplasts. In: Allen JF, Gantt E, Golbeck JH, Osmond B (eds) *Photosynthesis. Energy from the Sun*. *Proceedings of the 14th International Congress on Photosynthesis*. Springer, Heidelberg, p. 1181-1186.

- 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.
- Russell MJ, Allen JF, Milner-White EJ (2008) Inorganic complexes enabled the onset of life and oxygenic photosynthesis. In: Allen JF, Gantt E, Golbeck JH, Osmond B (eds) *Photosynthesis. Energy from the Sun. Proceedings of the 14th International Congress on Photosynthesis*. Springer, Heidelberg, pp. 1187–1192.
- Allen JF, Martin W (2007) Evolutionary biology - Out of thin air. *Nature* 445: 610-612.
- Allen CA, Giezen Mvd, Allen JF (2007) Origin, function and transmission of mitochondria. In: Martin W, Müller M (eds) *Origins of Mitochondria and Hydrogenosomes*. Springer-Verlag, Berlin Heidelberg, pp 39-56.
- Govindjee, Beatty JT, Gest H, Allen JF (eds.) *Discoveries in photosynthesis*. Springer, Dordrecht, 2006. 1,292 pages.
- Allen JF (2006) Plastoquinone redox control of chloroplast thylakoid protein phosphorylation and distribution of excitation energy between photosystems: discovery, background, implications. In: Govindjee, Beatty JT, Gest H, Allen JF (eds) *Discoveries in photosynthesis*. Springer, Dordrecht, pp 177-186.
- Allen JF (2005) A redox switch hypothesis for the origin of two light reactions in photosynthesis. *Febs Letters* 579: 963-968.
- Allen JF, Puthiyaveetil S (2005) *Choroflexus aurantiacus* and the origin of oxygenic, two-light reaction photosynthesis in failure to switch between type I and type II reaction centres. In: Est Avd, Bruce D (eds) *Photosynthesis: Fundamental Aspects to Global Perspectives*. Alliance Communications Group, Lawrence, Kansas, pp 753-756.
- Allen JF, Puthiyaveetil S, Strom J, Allen CA (2005) Energy transduction anchors genes in organelles. *Bioessays* 27: 426-435.
- Årsköld SP, Ström J, Allen JF, Krausz E (2005) Low-Temperature Absorption and Magnetic Circular Dichroism of the Four Haems of the Cytochrome b6f Complex. In: Est Avd, Bruce D (eds) *Photosynthesis: Fundamental Aspects to Global Perspectives*. Alliance Communications Group, Lawrence, Kansas, pp 455-457.
- Ström J, Forsberg J, Puthiyaveetil S, Allen JF (2005) Cytochrome b6 in redox regulation of photosynthesis and chloroplast gene expression. In: Est Avd, Bruce D (eds) *Photosynthesis: Fundamental Aspects to Global Perspectives*. Alliance Communications Group, Lawrence, Kansas, pp 436-438.
- Allen JF (2005) Power, sex, suicide: Mitochondria and the meaning of life. *Nature* 437: 1235-1236.
- Allen JF (2005) Photosynthesis: The processing of redox signals in chloroplasts. *Current Biology* 15: R929-R932.
- Allen JF, Mullineaux CW (2004) Probing the mechanism of state transitions in oxygenic photosynthesis by chlorophyll fluorescence spectroscopy, kinetics and imaging. In: Papageorgiou G, Govindjee (eds) *Chlorophyll fluorescence – a signature of photosynthesis*. Springer, Dordrecht, pp 447-461.
- Govindjee, Allen JF, Beatty JT (2004) Celebrating the millennium: historical highlights of photosynthesis research, part 3. *Photosynthesis Research* 80: 1-13.
- Allen JF (2004) Chloroplast-Redox Poise and Signaling. In: Lennarz WJ, Lane MD (eds) *Encyclopedia of Biological Chemistry*. Elsevier, San Diego, pp 438-445.
- Allen JF (2004) Cytochrome b(6)f: structure for signalling and vectorial metabolism. *Trends in Plant Science* 9: 130-137.
- 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) Cyclic, pseudocyclic and noncyclic photophosphorylation: new links in the chain. *Trends in Plant Science* 8: 15-19.
- Allen JF (2003) Why chloroplasts and mitochondria contain genomes. *Comparative and Functional Genomics* 4: 31-36.
- Allen JF (2003) Superoxide as an obligatory, catalytic intermediate in photosynthetic reduction of oxygen by adrenaline and dopamine. *Antioxidants & Redox Signaling* 5: 7-14.
- Allen JF (2003) State transitions - a question of balance. *Science* 299: 1530-1532.