

## **Curriculum Vitae Justin E. Molloy**

Date of birth: 24 May 1961

Nationality: British

### **Degrees**

1983 B.Sc. Biology, York

1987 D.Phil. Department of Biology, York - Active insect fibrillar flight muscle: its contractile performance and cross-bridge kinetics.

### **Posts held**

1988 RA1A (SERC) Department of Biology, University of York

1989 - 1990 NATO post-doctoral fellowship, University of Vermont, VT, USA.

1991 - 1995 RA1A (SERC) Department of Biology, University of York

1995 - 2000 Royal Society University Research Fellow

2000 - 2002 Reader in Biology, York

### **Awards**

Society of Experimental Biology, President's medal (1998)

European Biophysical Societies Association, Annual Prize for Biophysics (2000)

### **Scientific meetings organised**

British Biophysical Society Annual meeting (Jan. 1999) "Structure and function of molecular motors" (with John Trinick)

European Muscle Congress (1999) (with John Sparrow)

### **Personal profile**

Justin Molloy originally trained as a physiologist at the University of York and went on to study for his PhD (1984-1987) under Dr David CS White; investigating the kinetics of muscle contraction of insect flight muscle. This work involved making mechanical recordings from individual insect flight muscle fibres from the fruitfly, *Drosophila melanogaster*. In 1988, he obtained a NATO post-doctoral fellowship to work at the University of Vermont investigating the properties of mutant *Drosophila* flight muscles with Dr David Maughan. In 1991, he returned to York and worked with Prof. David White building an optical tweezers based mechanical transducer to measure the properties of individual muscle protein molecules. In 1995, he was awarded a Royal Society University Research Fellowship to extend these single molecule measurements to include other optically based methods. In 1998, he was awarded the Society of Experimental Biology President's Medal and in 1999 received the European Biophysical Society Annual Prize for Biophysics

### **Selected publications**

Veigel, C., L. M. Coluccio, J. D. Jontes, J. C. Sparrow, R. A. Milligan, and J. E. Molloy. 1999. The motor protein myosin-I produces its working stroke in two steps. *Nature*. 398:530-533.

Molloy, J. E., J. E. Burns, J. Kendrick Jones, R. T. Tregear, and D. C. White. 1995. Movement and force produced by a single myosin head. *Nature*. 378:209-12.

Molloy, J. E., V. Kyrtatas, J. C. Sparrow, and D. C. S. White. 1987. Kinetics of flight muscles from insects with different wingbeat frequencies. *Nature*. 328:449-451.