

**J.S. (Pat) Heslop-Harrison**  
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*Curriculum vitae updated November 2014*

Date of Birth: 14th March 1959 Place of Birth: Belfast, UK Nationality: British

UK Passport: John Seymour Heslop HARRISON, 2, issued UKPA 2013 valid to January 2023.

Major Fields of Interest: Plant cell and molecular biology; Crop plant evolution; Plant breeding; Food security; biotic and abiotic stress; genetic DNA Markers; Chromosomes; epigenetics; chromatin; centromeres; genome evolution; diversity; Hyperspectral imaging; Molecular biology and molecular cytogenetics; Genomics and functional genomics; Retrotransposons and transposons; Repetitive DNA structure and function; Species include wheat, cereals, gymnosperms, banana, Brassicas, oil palm, bovines, cattle, Drosophila; Reproduction, relationships and evolution; Systems biology. Pedagogy, teaching, networks and assessment; exploitation and commercialization of research. Techniques include *in situ* and Southern hybridization, cell biology, genetics and marker technology, molecular biology and sequence analysis, fluorescence and electron microscopy.

Active current projects at 11/2014:

Wheat repetitive DNA nature, organization and evolution; Wheat-*Thinopyrum* introgression; Epigenetic control of gene expression in polyploid crops; The nature and origin of *Taraxacum* diversity in apomicts; Fish microsatellite organization on chromosomes; Sheep and bovid satellite DNA diversity; *Aubrieta* (Brassicaceae) biodiversity; *Brassica* repetitive DNA; Saffron and *Crocus* diversity; *Brachiaria* forage grass molecular cytogenetics; Centromeres and epigenetics in wheat introgression lines; Genome sequence and organization in *Petunia* and Solanaceae; Organization and evolution of the banana genome; DNA and retro-transposable evolution effects on the genome; Analysis of abundant repetitive DNA in high-throughput genomic sequence data; Crops for food security; African crop diversity and prospects - teff, ensete and linseed

University

1983 PhD Spatial Distribution of Chromosomes in Wheat Species (Cambridge, UK)  
1980-1983 University of Cambridge. ARC Research Studentship at  
Plant Breeding Institute and Peterhouse  
1977-1980 BSc University College of Wales, Aberystwyth UK  
1976-1977 University of Massachusetts, USA

Employment

2000-Present Professor of Plant Cell Biology and Molecular Cytogenetics, Department of Biology, Faculty of Medicine and Biological Sciences, University of Leicester, UK.  
1990-2000 Group Leader, Karyobiology Group, John Innes Centre, Norwich; 1991 Principal Research Scientist / Unified Grade 7 1996 Individual Merit, Senior Principal (UG6/Band 3)  
1987-1990 Staff Member -senior Scientific Officer, Institute Plant Science Research, Cambridge  
1986-1987 BP Venture Research Fellow, Plant Breeding Institute; PI: Nuclear Architecture  
1983-1986 Research Fellow, Peterhouse, University of Cambridge and Plant Breeding Institute

Number of Research Publications: c. 300, Author of one book, Editor of 2 books (full list and abstracts available from [www.pubs.molcyt.com](http://www.pubs.molcyt.com)), in collaboration with active scientists from around the world in a productive research laboratory. Two patents.

Research collaborations with many laboratories in Europe, Asia, Africa and North and South America are reflected in the publication list.

#### Other positions

2013- Academic Icon, University of Malaya, Malaysia  
2011-2014 Sub-panel member, [Research Excellence Framework REF](#), HEFCE  
2011-present External Examiner, University of Nottingham, UK  
2009-2011 President, [Society for Experimental Biology](#), SEB (VP 2007-9)  
2000-present Regular consultant/expert for IAEA/FAO genetics and plant breeding section  
2004-2008 External examiner, [MSc in Plant Conservation \(Seed Banking\)](#), University of Sussex  
2004-present Council Member, [European Cytogeneticists Association](#)  
2004-2014 Founder and Director (-2010), BioAstral Limited ([www.bioastral.com](http://www.bioastral.com))  
2004-2008 Director and Trustee, [Annals of Botany](#) Company (Registered Charity)  
2004-2007 Director of Research Strategy, School of Biological Sciences, University of Leicester  
2005- [Global Musa Genomics Consortium](#), Member and Management Committee Member

#### Editorial Positions

2008-present Chief Editor, *Annals of Botany*  
1988-2008 Accepting Editor for *Annals of Botany*  
1991-present Accepting Editor for *Sexual Plant Reproduction*  
2000-present Accepting Editor for *Theoretical and Applied Genetics*  
2012-present Emeritus Editor, *Chromosome Research*  
1992-2012 Accepting Editor for *Chromosome Research*  
1996-2004 Accepting Editor for *Protoplasma*

Reviewer for many national and international grant programmes, site visits and PhD exams.  
eg 2012: expert for Agropolis Fondation, France; peer reviewer for National Agency for the Evaluation of Universities and Research Institutes (ANVUR), Italian Evaluation of Research Quality exercise (VQR 2004-2010);

PhD Students: 19 completed PhD; 6 current students in 2014.

Kesara Ananthawat-Jonsson; Nuno Neves; Alexandra Castilho; MingLi Wang (joint supervision), Raquel Chaves (joint); Marian Orgaard (joint); Sybille Kubis; Celia Hansen; Mohammad Azhar; Emmanuel Otwe; Jose Antonio Lima-Brito (joint); Carlos Ribiero Carvalho (joint); Saeidi Hojatollah (joint); Ulrike (Olli) Anhalt (joint); Saadiyah Jamli; Celine Tomazewski (joint); Faisal Nouroz; Worku Ngesh Mhiret; Farah Badakshi

Writing up: Nauf Alsayaid

Current: Chetan Patokar, Jotyar Muhammed, Rubar H Salih, Sarbast Mustafa, Khaloud Alarjani, Amal Alyamani

Publications are at [www.molcyt.com](http://www.molcyt.com) for full listing; pw/user both 'visitor' for download

Entry for Who's Who (AC Black publishers, 2015 edition):

HESLOP-HARRISON, Prof. John Seymour, (Pat), PhD; Professor of Molecular Cytogenetics and Cell Biology, University of Leicester, since 2000; h Belfast, NI, 14 March 195.); S of Jack and Yolande Heslop-Harrison; m 1995, Trude Schwarzacher; two s. Ed. Univ. of Massachusetts; University Coll. of Wales, Aberystwyth (BSc 1980) ; Peterhouse, Cambridge (PhD 1983). Stone Res. Fellow, Peterhouse, Cambridge, 1982-85: Scientific officer: Plant Breeding Inst., Cambridge, 1985-1990; John Innes Centre, Norwich, 1990-2000. Associate Ed., *Chromosome Res* 1994, now Emeritus Ed., Chief Ed., *Annals of Botany*, 2008-. Member: Cttee, [Global Musa Genomics Consortium](#), 2001-; Sub-panel, UK REF 2014. Vice-Pres., then Pres., Soc. For Exptl Biol., 2007-2011. Mem. Bd. Eur. Cytogeneticists Assoc., 2004-. Reviewer and assessor (grants, res. Progs). Publications: contribs to acad Jls. Recreations: enjoying the natural and built environment, walking, photography, technology, art. Address: Department of Biology, University of Leicester, Leicester LE1 7RH UK. T: (0116) 252 3381, Fax. (0116) 252 33311. E: [phh4@lc.ac.uk](mailto:phh4@lc.ac.uk).