

Department of Genetics

Molecular Cytogenetics Group

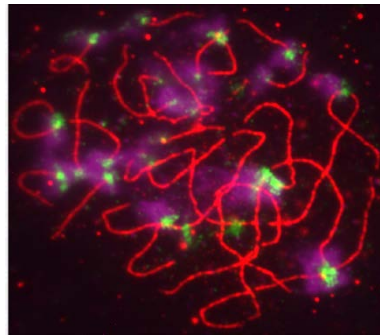
www.molcyt.com [phh\(a\)molcyt.com](mailto:phh(a)molcyt.com)

Pat Heslop-Harrison
Trude Schwarzacher
and colleagues

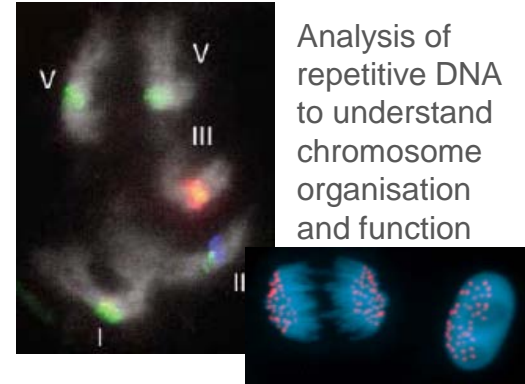
We study genomes and evolution mechanisms to find, measure and exploit genetic variation in crops, farm animals, and their wild relatives



Sequencing of whole genomes and studying diversity of nuclear and organellar DNA

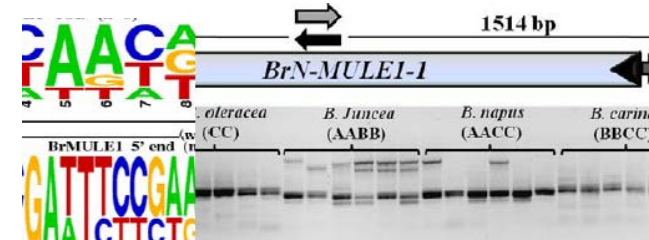
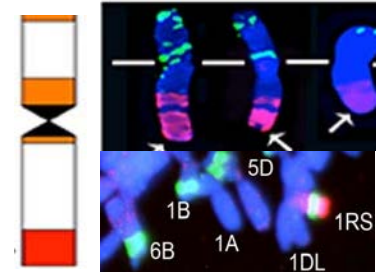


Diversity, wild genes and recombination in sheep landraces



Analysis of repetitive DNA to understand chromosome organisation and function

Work on hybrids and alien introgression with novel quality and disease resistance characters



Developing superdomestication strategies to exploit biodiversity for sustainable agriculture

Impacts outside academia

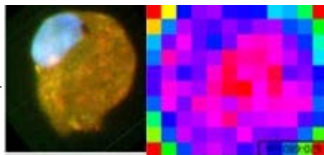
Legislation: Work with European Parliament & Commission



New methods for biotechnology



Discussing risk assessment and scientific advice with EU Health Commissioner Dr Vytenis Andriukaitis



Wheat with virus resistance identified in wheat breeding trials



We teach about genomes, crops, biodiversity, breeding and sustainable agriculture

Food fraud and safety detection



We edit journals and review research

