

Berris Charnley

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Gibson Building, Radcliffe Observatory Quarter, Oxford, OX2 6GG.

1. Education

- 2012. Doctor of Philosophy, *Agricultural Science, Plant Breeding and the Emergence of a Mendelian System in Britain, 1880-1930*. University of Leeds.
- 2005. Master of Arts, *History and Philosophy of Science*, University of Leeds.
- 2003. Bachelor of Science (International), *Genetics*, University of Leeds & University of South Carolina.

2. Employment

- 2014- Postdoctoral Researcher, 'Constructing Scientific Communities: Citizen Science in the 19th & 21st Centuries', ConSciCom, St Anne's College, University of Oxford.
- 2017. Tutor, Faculty of History. University of Oxford.
- 2012-14. Research Fellow, Australian Centre for Intellectual Property in Agriculture, ACIPA, Griffith University.
- 2011-12. Research Fellow, Centre for the Study of Life Sciences, University of Exeter.
- 2011. Impact Fellow, National Institute for Agricultural Botany & University of Leeds.
- 2009-11. Administrative Fellow, University of Leeds.
- 2008- Founding member of the IPBio network, ipbio.org.
- 2006-11. Teaching Assistant, University of Leeds.
- 2006-07. Research Assistant, University of Leeds.
- 2005-07. Teaching Fellow, University of Leeds.
- 2005-06. Teaching Assistant, University of Sheffield.

3. Areas of Specialisation

- History and Philosophy of Science and Intellectual Property.
- Contemporary History of Citizen Science & Science Communication.

4. Publications

Books -

- [Under consideration CUP]. *Remaking the Field: the Agricultural Enterprise of Early British Geneticists, 1900-1925*.
- 2015. with C. Lawson (eds) *Intellectual Property and Genetically Modified Organisms: A Convergence in Laws*. Routledge. [Paperback edition published 2017]

Journal special issues -

- forthcoming 2017. (ed.) 'Patenting Life: intellectual property in the life sciences'. *Studies in the History and Philosophy of Science: Part C*.
- 2016. with Sally Shuttleworth (eds), 'Science Periodicals in the Nineteenth and Twenty-First Centuries'. *Notes and Records of the Royal Society*, 70.

Journal articles -

- forthcoming 2017. 'Eleanor Ormerod, Economic Entomology and non-professional research, 1860-1901', *Studies in the History and Philosophy of Science: Part C*.
- 2016. with Sally Shuttleworth, 'Science Periodicals in the Nineteenth and Twenty-First Centuries', *Notes and Records of the Royal Society*, 70: 297-304.
- 2013. 'Experiments in Empire-Building: Mendelian Genetics as a Global Agricultural Enterprise, 1900-1930', *Studies in the History & Philosophy of Science: Part A*, 44: 292-300.
- 2013. with G. Radick, 'Intellectual Property, Plant Breeding and the Making of Mendelian Genetics', *Studies in the History & Philosophy of Science: Part A*, 44: 222-33.
- 2013. 'Seeds Without Patents: Science and Morality in British Plant Breeding in the Long Nineteenth-Century', *Revue Economique*, 64: 69-88.
- 2012. with S. Leonelli, A. Webb and R. Bastow, 'Under one leaf: an historical perspective on the UK Plant Science Federation', *New Phytologist*, 195: 10-13.
- 2008. 'Arguing over Adulteration: the Success of the Analytical Sanitary Commission', *Endeavour*, 32: 129-133.

Book chapters -

- 2016. 'Geneticists on the Farm: agriculture and the all-English loaf', in C. Sleight & D. Leggett (eds.), *Scientific Governance in Britain, 1914-1979*, pp. 181-198. Manchester University Press.

- 2015. with C. Lawson, 'Intellectual property and genetically modified organisms' in C. Lawson & B. Charnley (eds.) *Intellectual Property and Genetically Modified Organisms*, pp. 1-6. Routledge.
- 2015. 'Cui bono? Gauging the successes of publicly-funded plant breeding in retrospect' in C. Lawson & B. Charnley (eds.) *Intellectual Property and Genetically Modified Organisms*, pp. 7-26. Routledge.
- 2013. 'Why didn't an equivalent to the US Plant Patent Act of 1930 emerge in Britain? Historicising the boundaries of un-patentable innovation', in C. Lawson & J. Sanderson (eds.), *The Intellectual Property and Food Project*. pp. 103-123. Ashgate.
- 2013. 'Mendelism in British Agricultural Science, 1900-1930: "Systematised plant breeding"', in G. Dutfield & S. Arapostathis (eds.), *Knowledge Management and Intellectual Property*, pp. 200-215. Edward Elgar.
- 2010. with G. Radick, 'Plant Breeding and Intellectual Property Before and After the Rise of Mendelism: The Case of Britain', in D. J. Kevles et al. (eds.), *Living Properties*, pp. 51-55. Max Planck Institute für Wissenschaftsgeschichte (MPIWG).

Reviews -

- 2016. Essay Review: 'Plasmids, patents and the historian', *Studies in History and Philosophy of Science: Part C*, 60: 109-113.
- 2013. 'Nathan Paul Crowe, *A "Fantastical" Experiment*', *Dissertation Reviews*.
- 2012. 'Noel Kingsbury, "Hybrid"', *Technology and Culture*, 53: 6-7.
- 2010. 'Philip J. Pauly, "Fruits and Plains" and Alan L. Olmstead and Paul W. Rhode, "Creating Abundance"', *British Journal for the History of Science*, 43: 308-309.

Miscellaneous publications -

- 2014-. ConSciCom Blog, conscicom.org/author/berrischarnley/
- 2013-. Intellectual Property and the Biosciences Quarterly Newsletter.
- 2013. with S. Sherrie, 'Intellectual Property, Access and Benefit Sharing and Genetic Resources Bibliography' & 'Genetic Resources Map', ACIPA-CGIAR.
- 2009. 'Rowland Biffen, Little Joss and Yeoman: Looking Back at Two Successes Behind the Birth of NIAB in 1919', *Landmark*, May: 3-4.
- 2004. 'Media Coverage of Genetic Issues: a model of current coverage', *Biolog-e*, 2.

5. Websites & Media

- 2014- @conscicom and audio and video available at the ConSciCom youtube channel.

- 2012. acipa.edu.au.
- 2008- ipbio.org, @IPBio, and audio and video available at the IPBio youtube channel.
- 2008- owninganddisowninginvention.org.
- 2007. Prof. Gregory Radick – Publication List.
- 2006. Internet for History & Philosophy of Science, INTUTE, with V. Palge & S. Schindler.
- 2005. Technology Techline, International Electrotechnical Commission, with G. Gooday & L. Veneer.

6. Presentations and Symposia

Invited speaker -

- 2017. 'A Corner in Wheat (1909): Large Technological Systems and the History of Genetics', Natures, Cultures, Knowledges Group. University of Cambridge.
- 2017. 'A Corner in Wheat (1909): Large Technological Systems and the History of Genetics', History of Science Technology & Medicine Seminar Series, University of Oxford.
- 2017. 'Genetics and the Institutionalization of Plant Breeding Expertise, 1900-1930', Aichi Prefectural University.
- 2017. 'Citizen Science'. European Philosophy Forum. London School of Economics.
- 2016. 'The Forensics of Predatory Publishing', Max Planck Institute für Wissenschaftsgeschichte (MPIWG).
- 2016. 'Citizen Science in Context', Université de Genève.
- 2015. 'Miss Ormerod's feeling for community', TECHNIS online seminar.
- 2015. with Geoffrey Belknap, "[M]any are better than one, when hard work is to be done': Studying People-Powered Research in the 19th and 21st Centuries', Center for Spatial and Textual Analysis (CESTA), Stanford University.
- 2015. 'The Unexpected History of Genetics', John Innes Centre, Friday Seminar.
- 2014. 'From Kent to Cairo: rogues and purity in British genetics, 1859-1925' History and Philosophy of Science Seminar Series, University of Sydney.
- 2012. 'Historicising the boundaries of un-patentable innovation', ACIPA IP and Food Symposium, Griffith University.
- 2011. 'Why didn't an equivalent to the US Plant Patent Act of 1930 emerge in Britain?' Plants, Animals and Ownership, Yale University.

- 2011. 'The Work and Legacy of Sir Rowland Biffen', National Institute of Agricultural Botany History Day, NIAB-TAG.
- 2009. 'From the *Origin* to Cairo: Rogues and Purity in British genetics, 1900-1925', ESRC Centre for Genomics in Society, University of Exeter.

Convener or organiser -

- 2016. 'Why we write', with Professor Sunetra Gupta. Royal Society.
- 2016. 'Studying Citizen Science', University of Oxford.
- 2016. 'Don't Panic! Promises and Threats of Science and Technology', Pegasus Theatre and Oxford Museum of the History of Science.
- 2016. 'Public health and Private pain: A night of medical history and drama', Pegasus Theatre and Oxford Museum of the History of Science.
- 2015. 'Twilight Science: A Scientific Soiree'. Royal Society.
- 2015. 'The End of the Scientific Journal: Transformations in Publishing', Royal Society.
- 2014. 'Intellectual Property and the Biosciences: Past Trends and Future Directions', Griffith University.
- 2013. 'Roundtable: Patenting Life: genes and generations,' International Society for the History, Philosophy and Social Studies of Biology, ISHPSSB.
- 2012-2014. South Bank Intellectual Property Series, Griffith University.
- 2012. 'Genetics, Plant Breeding and Institution Building: International Perspectives from Britain, New Zealand and Italy,' Three Societies Meeting.
- 2012. 'Making Data Accessible to All', GARNet/Egenis Workshop, University of Exeter.
- 2012. Graham Dutfield, 'Did Kary Mullis Really Invent PCR?' Inaugural lecture Egenis-Science, Culture and the Law at Exeter-Business School & IPBio Seminar Series, University of Exeter.
- 2012. Paul Thompson, 'Ethical Issues in Agriculture: Genetically Modified Crops and the Organic Movement', Egenis, University of Exeter.
- 2011. Myles Jackson, 'Intellectual Property and Molecular Biology: Biomedicine, Commerce, and the CCR5 Gene Patent', White Rose IPBio Lecture, University of York.
- 2010. 'Intellectual Property and the Biosciences', White Rose IPBio Symposium and Summer School, University of Leeds.

Other presentations -

- 2017. with Dominic Berry, 'Genetic acres at home and abroad: Meting out the British agricultural empire through imperial time and space'. Rural History 2017, European Rural History Organisation.
- 2017. "DEDICATED TO ALL MISS ORMEROD'S CORRESPONDENTS IN ECONOMIC ENTOMOLOGY": The Injurious Insects Movement and the social purpose of science, 1870-1901. International Society for History, Philosophy and Social Studies of Biology.
- 2017. 'The Scientific Report and Distributed Observation in the late 19th Century', York University, Canada.
- 2016. 'Rogues and Wild Relatives: Purity and wildness in early-20th Century Genetics', The Call of the Wild, MIT.
- 2016. with Sally Frampton, 'CONSCICOM' Media and Medicine Workshop. Maison Française d'Oxford.
- 2016. with Sally Frampton and Geoffrey Belknap, 'Updates from CONSCICOM' Zoominar Seminar Series. Department of Astrophysics, University of Oxford.
- 2015. Chair: 'Why Objects?' History of Science Society.
- 2015. with Sally Frampton, 'CONSCICOM', St Anne's 'Open Door' Day.
- 2015. 'CONSCICOM', AHRC Digital Transformations Meeting. University of Oxford.
- 2015. Big Data in the Humanities Roundtable, Pembroke College, University of Oxford.
- 2015. 'Crowd-Sourced Science in the Nineteenth Century: Eleanor Ormerod's Injurious Insects', British Society for the History of Science.
- 2015. with Sally Shuttleworth and Chris Lintott, 'People Powered Science: citizen science in the 19th and 21st centuries', The Royal Society.
- 2015. 'Publishing Eleanor Ormerod's *Notes of Observations of Injurious Insects 1878-1901*', Publish or Perish, University of St Andrews and The Royal Society.
- 2015. 'Beyond Authorship: Recognising all research contributions.' ORCID CASRAI.
- 2015. 'Agricultural Science and Entrepreneurialism in Britain and the Colonial West Indies, 1880-1930', Academic Entrepreneurship, University of Ghent.
- 2015. 'Writing Miss Ormerod's Autobiography', Scientific Lives, University of Leeds.
- 2015. with S. Frampton, 'What can history do for Citizen Science and what can Citizen Science do for history?' Zoominar Seminar Series, Department of Astrophysics, University of Oxford.

- 2014. 'Expertise and Colonial Management of Plant Genetic Resources in the West Indies', Science and Technology in the European Periphery Annual Meeting.
- 2014. 'Agricultural Science and entrepreneurialism in Britain the Colonial West Indies, 1880-1930', European Business History Association Congress.
- 2013. Roundtable discussant, 'Plant Science: Its Role in Biology', ISHPSSB.
- 2013. 'Cui bono? Gauging the aims and successes of publicly funded plant breeding in retrospect', GMOs Driving Legal Developments, Griffith University.
- 2012. 'Otto Frankel and the Institutional Context of Agricultural Genetics in New Zealand, 1927-1951', Three Societies Meeting.
- 2012. 'The Trouble with Rogues: a new theoretical map of Mendelian plant breeding, 1900–1930', Integrated History and Philosophy of Science, UCL.
- 2010. 'Experiments in empire-building: Mendelian genetics as a global agricultural enterprise', Managing Knowledge in the Techno-Sciences, University of Leeds.
- 2009. 'From Kent to Cairo: Rogues and Purity in British genetics, 1900-1925', Darwin's Living Legacy, British Council.
- 2009. "Ask any gardener with experience in Great Britain—he will know Carter': Making Reputations Pay in the Seed Trade 1880-1920', World Economic History Congress.
- 2009. 'Rogues and Purity in British Genetics, 1890-1920', ISHPSSB.
- 2009. 'Little Joss and Yeoman: Biological Innovation in British wheat breeding, 1900-1925', Advanced Seminar: ESTER/GLOBALEURONET.
- 2009. 'Mendelism in British Agricultural Science, 1901-1926: systematic activity in the practical sciences', Arts and Humanities Research Council Project Workshop (AHRC), University of Leeds.
- 2008. 'The Trouble with Rogues: Mendelism and Plant Breeding in English Agriculture, 1916-1924', Society for the History of Technology.
- 2008. 'Plant Breeding and Intellectual Property Before and After the Rise of Mendelism: The Case of Britain', Living Properties, MPIWG.

7. Fellowships, Grants and Awards

- 2016. Visiting Fellowship, Rethinking Science & Public Participation, Université de Genève.
- 2014. Visiting Fellowship, Centre for Foundations of Science, University of Sydney.
- 2014. 'Intellectual Property and the Biosciences: Past trends and future directions'. Griffith University £6,000.

- 2014. 'Intellectual Property, Tradition & Modernity'. Griffith University £4,000.
- 2013-4. 'Plant Genetic Resources in the Colonial West Indies 1800-1950'. Griffith University £5,000.
- 2012-13. 'Remaking the Field: the agricultural enterprise of early British geneticists, 1900-1925', Griffith University £4,000.
- 2012. with J. Dupré, 'A Process Ontology for Contemporary Biology', European Research Council, £1.6million.
- 2012. 'Food Security in the European Region: Building Responsiveness to Future Challenges', EU-FP7 Marie Curie ITN £2.1million (unfunded).
- 2011. with G. Radick, 'Food Security in the Biotech Age: The NIAB from 1970 to the Present', Arts & Humanities Research Council, £520,000.
- 2011. Research Impact & Innovation Fund, University of Leeds £5,000.
- 2009-2010. with G. Radick, 'White Rose IPBio Project', White Rose Consortium £15,000.
- 2009-2012. with G. Radick, 'Forging a Science of Food Security: Testing, Statistics and Regulation at NIAB, 1919-1969', Arts & Humanities Research Council, £260,000.
- 2008-2012. Co-author with G. Radick, C. MacLeod & G. Gooday, 'Owning and Disowning Invention: Intellectual Property, Authority and Identity in British Science and Technology, 1880-1920', Arts & Humanities Research Council, £800,000.
- 2008-2011. Arts and Humanities Research Council. PhD funding, awarded by grant holders, Owning and Disowning Invention Project.
- 2008-2014. Various grants: British Council; Royal Historical Society; Yale University; MPIWG; EURONET; International Society for History Philosophy and Social Studies of Biology; World Economic History Congress; Society for History of Technology.
- 2001-2002. University of South Carolina President's Honours Roll.

8. Professional Service

- 2016- Member. TECHNIS, An Innovation & Intellectual Property Research Organisation.
- 2014- External member. Australian Centre for Intellectual Property in Agriculture, ACIPA, Griffith University.
- 2014-2015. Academic advisor for 'Cultivating Innovation', University of Leeds.
- 2011- Member of UK History, Philosophy and Sociology of Plant Science network.
- 2008- Founding member, Intellectual Property in the Biosciences Network, IPBio.
- 2002. Facilitator for the Royal Society Dialogue on Genetics and Health.