

## **I. Short Bio**

Berris Charnley is a historian of science. His research has addressed the history of genetics, plant breeding and agriculture in Britain and the relationship of this nexus to food security, intellectual property and empire. Amongst other things, he is interested in plants, trees, seeds, genes, insects, farms and food. How are these resources studied, circulated, controlled, measured, owned or shared? And what can the history of human relations with such resources tell us about making their future management more equitable? He has completed impact posts on his own research and the relationship between amateur and professional knowledge production; and teaching posts in a range of settings; most recently leading the University of Leeds' Arts and Humanities International Foundation Year.

## **II. 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.

## **III. Employment**

2008- Co-Founder, Intellectual Property and the Biosciences Network: [ipbio.org](http://ipbio.org).

2020. Online Facilitator for the Genetic Pedagogies Project.

2019-20. Senior Teaching Fellow, International Foundation Year, University of Leeds.

2016-17. College Tutor, St Anne's, Faculty of History, University of Oxford.

2014-17. Postdoctoral Researcher (Impact), University of Oxford & The Royal Society, London.

2012-14. Research Fellow, Australian Centre for Intellectual Property in Agriculture. Griffith University.

2011-12. Research Fellow, Centre for the Study of Life Sciences, University of Exeter.

2010-11. Impact Fellow, National Institute for Agricultural Botany & University of Leeds.

2009-11. Project Administrator, University of Leeds.

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.

#### IV. Areas of Interest

- History of agriculture and food security.
- Science, technology and innovation policy.
- Resource governance, equity and sustainability.
- Open science.
- History and philosophy of science and technology.
- History and theory of intellectual property.

#### V. Publications (titles linked to OA versions)

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##### Books

In preparation. *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].

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##### Special issues

2016. with S. Shuttleworth (eds.) ‘Science Periodicals in the Nineteenth and Twenty-First Centuries’.

*Notes and Records of the Royal Society*, 70.

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##### Articles

In preparation. ‘Eleanor Ormerod, Economic Entomology and non-professional research, 1860-1901’.

In preparation. ‘Communication in the Zooniverse: Learning from the researchers’.

In preparation. ‘Late-19<sup>th</sup> Century Scientific Reports and Distributed Observation at The Royal Society, London’.

2016. with S. 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.
2009. 'Rowland Biffen, Little Joss and Yeoman: Looking Back at Two Successes Behind the Birth of NIAB in 1919', *Landmark*, May: 3-4.
2008. 'Arguing over Adulteration: the Success of the Analytical Sanitary Commission', *Endeavour*, 32: 129-133.
2004. 'Media Coverage of Genetic Issues: a model of current coverage', *Biolog-e*, 2.

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#### Book chapters

2020. [Reprint 2013]. 'Seeds Without Patents: Science and Morality in British Plant Breeding in the Long Nineteenth-Century' in B. Sherman & S. Chapman (eds.) *Intellectual Property and Agriculture*. Volume 1. pp. 69-88 [original pagination]. Edward Elgar.
2018. 'Genetics and the Institutionalization of Plant Breeding Expertise, 1900-1930', in M. Ohno (ed) *Institutionalisation of Science and the Public Sphere in Modern Britain*, pp. 196-208. Aichi Prefectural University.
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 Charles 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. Duffield & 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.

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### 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.

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### Websites, social media & miscellaneous publications

2019. gregoryradick.com. Professional homepage.

2017. with D. Opitz. Podcast: 'Domestic Science in the 19th Century', *The Conversationalist*.

2014-17. Constructing Scientific Communities Blog, [conscicom.org/author/berrischarnley/](http://conscicom.org/author/berrischarnley/)

2014-17. @conscicom twitter account.

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.

2012. [acipa.edu.au](http://acipa.edu.au). Institutional homepage.

2008- [ipbio.org](http://ipbio.org). Project homepage, @IPBio twitter account and youtube channel.

2008- [owninganddisowninginvention.org](http://owninganddisowninginvention.org). Project homepage.

2007. Prof. Gregory Radick. Online bibliography.

2006. with V. Palge & S. Schindler, *Internet for History & Philosophy of Science*, INTUTE.

2005. with G. Gooday & L. Veneer, *Technology Techline*, International Electrotechnical Commission.

### VI. Fellowships, Grants and Awards

2018- Visiting Fellowship. School of Philosophy, Religion and the History of Science. University of Leeds.

2016. Visiting Fellowship, Rethinking Science & Public Participation Project, 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. Co-author [impact section] with J. Dupré, ‘A Process Ontology for Contemporary Biology’, European Research Council, £1.6million.
- 2011 & 2012. ‘Food Security in the European Region: Building Responsiveness to Future Challenges’, EU-FP7 Marie Curie ITN £2.1million (unfunded).
2011. Co-author 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. Co-author and PI with G. Radick, ‘White Rose IPBio Project’, White Rose Consortium £15,000.
2009. Co-author with G. Radick, ‘Forging a Science of Food Security: Testing, Statistics and Regulation at NIAB, 1919-1969’, Arts & Humanities Research Council, £260,000.
2008. 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. PhD funding, awarded by grant holders, Owning and Disowning Invention Project, Arts and Humanities Research Council.
- 2001-2002. University of South Carolina President’s Honours Roll.

## **VII. Professional Service**

- 2019-2020. Liberal Arts rep: International Foundation Year, Taught Student Education Committee.
- 2016- Member: TECHNIS, An Innovation & Intellectual Property Research Organisation.
- 2014- External member: Australian Centre for Intellectual Property in Agriculture.
- 2014-2015. Academic advisor: ‘Cultivating Innovation’, University of Leeds.
- 2011- Member: UK History, Philosophy and Sociology of Plant Science network.

2002. Facilitator: The Royal Society Dialogue on Genetics and Health.

### **VIII. Selected Presentations and Symposia**

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#### **Invited speaker**

2019. The Citizen in Citizen Science Workshop, University of Birmingham.

2018. AHRC Digital Transformations Workshop, Furtherfield Commons.

2017. Natures, Cultures, Knowledges Group, University of Cambridge.

2017. History of Science, Technology & Medicine Seminar Series, University of Oxford.

2017. Institutionalisation of Science Workshop, Aichi Prefectural University.

2017. European Philosophy Forum, London School of Economics.

2016. Ownership of Knowledge Workshop, Max Planck Institute für Wissenschaftsgeschichte.

2016. Citizen Science Seminar Series, Université de Genève.

2016. With Sally Frampton, Media and Medicine Workshop, Maison Française d'Oxford.

2015. TECHNIS Seminar Series, Online.

2015. Center for Spatial and Textual Analysis, Stanford University.

2015. Friday Seminar Series, John Innes Centre.

2015. with Sally Shuttleworth and Chris Lintott, The Royal Society, London.

2015. Beyond Authorship Conference, ORCID CASRAI.

2015. AHRC Digital Transformations Meeting, Rhodes House, University of Oxford.

2015. Big Data in the Humanities Roundtable, Pembroke College, University of Oxford.

2015. Academic Entrepreneurship Workshop, University of Ghent.

2014. History and Philosophy of Science Seminar Series, University of Sydney.

2012. ACIPA IP and Food Symposium, Griffith University.

2011. Plants, Animals and Ownership Workshop, Yale University.

2011. National Institute of Agricultural Botany History Day, NIAB-TAG.

2009. Egenis Seminar Series, University of Exeter.

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#### **Convener**

2017. Public Event: 'Why we write', The Royal Society, London.

2017. Workshop: ‘Studying Citizen Science’, University of Oxford.
2017. Public Event: ‘Don’t Panic! Promises and Threats of Science and Technology’, Pegasus Theatre and Oxford Museum of the History of Science.
2016. Public Event: ‘Public health and Private pain: A night of medical history and drama’, Pegasus Theatre and Oxford Museum of the History of Science.
2015. Public Event: ‘Twilight Science: A Scientific Soiree’. The Royal Society, London.
2015. Conference: ‘The End of the Scientific Journal: Transformations in Publishing’, The Royal Society, London.
2014. Workshop: ‘Intellectual Property and the Biosciences: Past Trends and Future Directions’, Australian Centre for Intellectual Property in Agriculture.
2013. Roundtable: ‘Patenting Life: genes and generations’, International Society for the History, Philosophy & Social Studies of Biology.
- 2012-2014. South Bank Intellectual Property Seminar Series, Griffith University.
2012. Panel Session: ‘Genetics, Plant Breeding and Institution Building: International Perspectives from Britain, New Zealand and Italy’, Three Societies Meeting.
2010. Conference: ‘Intellectual Property and the Biosciences’, White Rose IPBio Symposium and Summer School, University of Leeds.

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#### **Other presentations**

2017. ‘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 & 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 Workshop, MIT.
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’, ‘Open Door’ Day, St Anne’s College.
2015. ‘Crowd-Sourced Science in the Nineteenth Century: Eleanor Ormerod’s Injurious Insects’, British Society for the History of Science.
2015. ‘Publishing Eleanor Ormerod’s *Notes of Observations of Injurious Insects* 1878-1901’, Publish or Perish, University of St Andrews and The Royal Society, London.
2015. ‘Writing Miss Ormerod’s Autobiography’, Scientific Lives Workshop, 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’, International Society for History, Philosophy & Social Studies of Biology.

## **IX. Teaching**

### **Module leader**

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- History and Theory of Modern Science Communication. MA level. University of Leeds.
  - Science Communication: History and Theory. Level 3. University of Leeds.
  - History of Genetics. Level 2. University of Leeds.
  - History of Psychology. Level 1. University of Leeds.
  - Philosophy of Psychology. Level 1. University of Leeds.
  - Exploring the Arts and Humanities. Foundation Year. University of Leeds.

### **Tutor**

- 
- The Authority of Nature. Level 2. University of Oxford.
  - Medical Ethics. Level 2. University of Leeds.
  - History of Philosophy. Level 1. University of Leeds.
  - Introduction to Ethics. Level 1. University of Leeds.
  - Philosophy of Science. Level 1. University of Sheffield.
  - Philosophy of Space and Time. Level 1. University of Sheffield.
  - Existentialism. Level 1. University of Sheffield.