SOCM016

Cultures of the Life Sciences



[1]

Allen, G.E. 1979. Life Science in the Twentieth Century. Cambridge University Press.

[2]

Allen, G.E. 1997. The social and economic origins of genetic determinism: A case history of the American Eugenics Movement, 1900–1940 and its lessons for today. Genetica. 99, 2–3 (1997), 77–88.

[3]

Allen, J.F. 2000. Bioinformatics and Discovery: Induction Beckons Again. BioEssays. 23, 1 (2000), 104–107.

[4]

Amundson, R. 2000. Against Normal Function. Studies in History and Philosophy of Biological and Biomedical Sciences. 31, 1 (2000), 33–53.

[5]

Amundson, R. 2005. The Changing Role of the Embryo in Evolutionary Thought. Cambridge University Press.

[6]

Ankeny, R.A. and Leonelli, S. 2019. Organisms in Experimental Research. Handbook of the Historiography of Biology. Springer. 1–25.

[7]

Ankeny, R.A. and Leonelli, S. 2011. What's So Special About Model Organisms? Studies in History and Philosophy of Science Part A. 42, 2 (2011), 313–323.

[8]

Atkinson, P. et al. 2009. Handbook of Genetics and Society: Mapping the New Genomic Era . Routledge.

[9]

Atran, S. 1999. Cognitive Foundations of Natural History: Towards an Anthropology of Science. Cambridge University Press.

[10]

Bacon, F. et al. 1994. Novum Organum: With Other Parts of the Great Instauration. Open Court.

[11]

Bailer-Jones, D.M. 2009. Scientific Models in Philosophy of Science. University of Pittsburgh Press.

[12]

Barnes, B. and Dupre

, J. 2008. Genomes and What to Make of Them. University of Chicago Press.

[13]

Barrera-Osorio, A. 2006. Experiencing Nature: The Spanish American Empire and the Early Scientific Revolution.

[14]

Beatty, J. 1980. 'What's Wrong with the Received View of Evolutionary Theory?' PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association. 1980, (1980), 397–426.

[15]

Beatty, J. 1997. Why do Biologists Argue Like They do? Philosophy of Science. 64, (1997), S432–S443.

[16]

Beatty, J. 1997. 'Why do Biologists Argue Like They do?' Philosophy of Science. 64, (1997), S432–S443.

[17]

Bechtel, W. 2006. Discovering Cell Mechanisms: The Creation of Modern Cell Biology. Cambridge University Press.

[18]

Bedau, M. and Cleland, C.E. 2010. The Nature of Life: Classical and Contemporary Perspectives from Philosophy and Science. Cambridge University Press.

[19]

Bell, G. et al. 2009. Beyond the Data Deluge. Science. 323, 5919 (2009), 1297–1298.

[20]

Benson, E. 2012. One Infrastructure, Many Global Visions: The Commercialization and Diversification of Argos, a Satellite-Based Environmental Surveillance System. Social Studies of Science. 42, 6 (2012), 843–868.

[21]

Berlin, B. 1992. Ethnobiological Classification: Principles of Categorization of Plants and Animals in Traditional Societies. Princeton University Press.

[22]

Bernard, C. 1985. Introduction to the Study of Experimental Medicine. Dover.

[23]

Beurton, P.J. et al. 2000. The Concept of the Gene in Development and Evolution. Cambridge University Press.

[24]

Blake, J.A. and Bult, C.J. 2006. Beyond the Data Deluge: Data Integration and Bio-Ontologies. Journal of Biomedical Informatics. 39, 3 (2006), 314–320.

[25]

Boniolo, G. 2017. Chapter 1: Molecular Medicine: The Clinical Method Enters the Lab. Philosophy of Molecular Medicine: Foundational Issues in Research and Practice. Routledge, Taylor & Francis Group. 15–34.

[26]

Boniolo, G. and Nathan, M.J. 2017. Philosophy of Molecular Medicine: Foundational Issues in Research and Practice. Routledge, Taylor & Francis Group.

[27]

Boorse, C. 1977. Health as a Theoretical Concept. Philosophy of Science. 44, 4 (1977), 542–573.

[28]

Botstein, D. et al. 2000. Gene Ontology: Tool for the Unification of Biology. Nature Genetics . 25, 1 (2000), 25–29.

[29]

Bowker, G.C. and Star, S.L. 2000. Sorting Things Out: Classification and Its Consequences. MIT Press.

[30]

Bowler, P.J. 2003. Evolution: The History of an Idea. University of California Press.

[31]

Boyd, D. and Crawford, K. 2012. Critical Questions for Big Data: Provocations for a Cultural, Technological and Scholarly Phenomenon. Information, Communication & Society. 15, 5 (2012), 662–679.

[32]

Brandon, R.N. 1997. 'Does Biology Have Laws? The Experimental Evidence'. Philosophy of Science. 64, (1997), S444–S457.

[33]

Brigandt, I. and Love, A. 2017. 'Reductionism in Biology'. The Stanford Encyclopedia of Philosophy. (2017).

[34]

Burian, R. 2004. The Epistemology of Development, Evolution, and Genetics. Cambridge University Press.

[35]

Burian, R.M. 1997. Exploratory Experimentation and the Role of Histochemical Techniques in the Work of Jean Brachet, 1938-1952. History and Philosophy of the Life Sciences. 19, 1 (1997), 27–45.

[36]

Burian, R.M. 1993. Technique, Task Definition and the Transition From Genetics to Molecular Genetics: Aspects of the Work on Protein Synthesis in the Laboratories of J. Monod and P. Zamecnik. Journal of the History of Biology. 26, 3 (1993), 387–407.

[37]

Burian, R.M. 1993. 'Unification and Coherence as Methodological Objectives in the Biological Sciences'. Biology & Philosophy. 8, 3 (1993), 301–318.

[38]

Canali, S. 2016. Big Data, Epistemology and Causality: Knowledge In and Knowledge Out in EXPOsOMICS. Big Data & Society. 3, 2 (2016).

[39]

Canguilhem, G. 1988. The Development of the Concept of Biological Regulation in the Eighteenth and Nineteenth Centuries. Ideology and Rationality in the History of the Life Sciences. 81–102.

[40]

Canguilhem, G. 1989. The Normal and the Pathological. Zone Books.

[41]

Canguilhem, G. et al. 2012. Writings on Medicine. Fordham University Press.

[42]

Carel, H. 2013. Illness: The Cry of the Flesh. Routledge.

[43]

Cartwright, N. 1999. Introduction. The Dappled World: A Study of the Boundaries of Science. Cambridge University Press. 1–20.

[44]

Cassirer, E. 1950. The Problem of Knowledge: Philosophy, Science and History Since Hegel. Yale University Press.

[45]

de Chadarevian, S. 2004. Chapter 12: Models and the Making of Molecular Biology. Models: The Third Dimension of Science. Stanford University Press. 339–368.

[46]

Chadarevian, S. de 2002. Designs For Life: Molecular Biology After World War II. Cambridge University Press.

[47]

de Chadarevian, S. 1998. Of Worms and Programmes: Caenorhabditis Elegans and the Study of Development. Studies in History and Philosophy of Biological and Biomedical Sciences. 29, 1 (1998), 81–105.

[48]

Chicurel, M. 2002. Bioinformatics: Bringing it All Together Technology Feature. Nature. 419, 6908 (2002), 751–757.

[49]

Coleman, W. 1977. Biology in the Nineteenth Century: Problems of Form, Function and Transformation. Cambridge University Press.

[50]

Coleman, W. and Holmes, F.L. 1988. The Investigative Enterprise: Experimental Physiology in Nineteenth-Century Medicine. University of California Press.

[51]

Cook, H.J. 2007. Matters of Exchange: Commerce, Medicine, and Science in the Dutch Golden Age. Yale University Press.

[52]

Cotton, C.M. 1996. Ethnobotany: Principles and Applications. Wiley.

[53]

Craver, C.F. 2005. 'Beyond Reduction: Mechanisms, Multi-Field Integration and the Unity of Neuroscience'. Studies in History and Philosophy of Science Part C. 36, 2 (2005), 373–395.

[54]

Craver, C.F. and Darden, L. 2013. In Search of Mechanisms: Discoveries Across the Life Sciences. University of Chicago Press.

[55]

Creager, A.N.H. 2002. The Life of a Virus: Tobacco Mosaic Virus as an Experimental Model, 1930-1965. University of Chicago Press.

[56]

Cunningham, A. and Williams, P. 1992. The Laboratory Revolution in Medicine. Cambridge University Press.

[57]

Daston, L. 2004. 'Type Specimens and Scientific Memory'. Critical Inquiry. 31, 1 (2004), 153–182.

[58]

Daston, L. and Vidal, F. 2004. The Moral Authority of Nature. University of Chicago Press.

[59]

Davies, G. 2013. Arguably Big Biology: Sociology, Spatiality and the Knockout Mouse Project. BioSocieties. 8, 4 (2013), 417–431.

[60]

Davies, G. 2010. Captivating Behaviour: Mouse Models, Experimental Genetics and Reductionist Returns in the Neurosciences. The Sociological Review. 58, S1 (2010), 53–72.

[61]

Davies, G. 2012. What is a Humanized Mouse? Remaking the Species and Spaces of Translational Medicine. Body & Society. 18, 3–4 (2012), 126–155.

[62]

Dawkins, R. 2006. The Selfish Gene. Oxford University Press.

[63]

Day, R.L. et al. 2003. Rethinking Adaptation: The Niche-Construction Perspective. Perspectives in Biology and Medicine. 46, 1 (2003), 80–95.

[64]

De Chadarevian, S. 1996. Laboratory Science Versus Country-House Experiments. The Controversy Between Julius Sachs and Charles Darwin. The British Journal for the History of Science. 29, 1 (1996), 17–41.

[65]

Delbourgo, J. and Müller-Wille, S. 2012. Focus: Listmania, Introduction. Isis. 103, 4 (2012), 710–715.

[66]

Dennett, D.C. 1996. Darwin's Dangerous Idea: Evolution and the Meanings of Life. Penguin.

[67]

Dietrich, M. et al. 2019. Handbook of the Historiography of Biology. Springer.

[68]

Douglas, M. and Hull, D.L. 1992. How Classification Works: Nelson Goodman Among the Social Sciences. Edinburgh U.P.

[69]

Dupré, J. 2018. Chapter 5: Human Nature: A Process Perspective. Why We Disagree About Human Nature. Oxford University Press. 92–107.

[70]

Dupre

, J. 2002. Humans and Other Animals. Clarendon.

[71]

Dupré, J. 2001. 'In Defence of Classification'. Studies in History and Philosophy of Biological and Biomedical Sciences. 32, 2 (2001), 203–219.

[72]

Dupre

, J. 2012. Processes of Life: Essays in the Philosophy of Biology. Oxford University Press.

[73]

Dupre

, J. 1993. The Disorder of Things: Metaphysical Foundations of the Disunity of Science. Harvard University Press.

[74]

Durkheim, É. and Mauss, M. 2010. Primitive Classification. Routledge.

[75]

Egerton, F.N. 1973. Changing Concepts of the Balance of Nature. The Quarterly Review of Biology. 48, 2 (1973), 322–350.

[76]

Elliott, K.C. et al. 2016. Conceptions of Good Science in Our Data-Rich World. BioScience. 66, 10 (2016), 880–889.

[77]

Endersby, J. 2008. Imperial Nature: Joseph Hooker and the Practices of Victorian Science. University of Chicago Press.

[78]

Endy, D. 2005. Foundations for Engineering Biology. Nature. 438, 7067 (2005), 449-453.

[79]

Engelhardt, H.T. 2000. The Philosophy of Medicine: Framing the Field. Kluwer Acad. Publ.

[80]

Ereshefsky, M. 2008. Chapter 6 - 'Systematics and Taxonomy'. A Companion to the Philosophy of Biology. Blackwell Pub. 99–118.

[81]

Fagan, M.B. 2013. Philosophy of Stem Cell Biology: Knowledge in Flesh and Blood. Palgrave Macmillan.

[82]

Falk, R. 2009. Genetic Analysis: A History of Genetic Thinking. Cambridge University Press.

[83]

Farber, P.L. 2000. Finding Order in Nature: The Naturalist Tradition from Linnaeus to E. O. Wilson. Johns Hopkins University Press.

[84]

Fleck, L. et al. 1981. Genesis and Development of a Scientific Fact. University of Chicago Press.

[85]

Floridi, L. 2011. The Philosophy of Information. Oxford University Press.

[86]

Floridi, L. and Illari, P. 2014. The Philosophy of Information Quality. Springer.

[87]

Fortun, M. and Mendelsohn, E. 1999. The Practices of Human Genetics. Kluwer Academic.

[88]

Foucault, M. 1986. Right of death and power over life. The Foucault Reader. Penguin. 258–272.

[89]

Foucault, M. 2003. The Birth of the Clinic: An Archaeology of Medical Perception. Routledge.

[90]

Foucault, M. and Bertani, M. 2004. Society Must be Defended: Lectures at the Collège de France, 1975-76: Lectures at the College De France, 1975-76. Penguin.

[91]

Fox Keller, E. 2011. Towards a Science of Informed Matter. Studies in History and Philosophy of Biological and Biomedical Sciences. 42, 2 (2011), 174–179.

[92]

Franklin, S. 2007. Dolly Mixtures: The Remaking of Genealogy. Duke University Press.

[93]

French, S. and Ladyman, J. 1999. Reinflating the Semantic Approach. International Studies in the Philosophy of Science. 13, 2 (1999), 103–121.

[94]

Frigg, R. and Hartmann, S. 2012. Models in science. The Stanford Encyclopedia of Philosophy. (2012).

[95]

Fry, B. 2007. Visualizing Data: Exploring and Explaining Data with the Processing Environment. O'Reilly Media.

[96]

Fujimura, J.H. 1999. The Practices of Producing Meaning in Bioinformatics. The Practices of Human Genetics. Kluwer Academic. 49–87.

[97]

Gannett, L. 2008. Chapter 19: Genes and Society. The Oxford Handbook of Philosophy of Biology. Oxford University Press. 451–477.

[98]

Gannett, L. 2004. The Biological Reification of Race. The British Journal for the Philosophy of Science. 55, 2 (2004), 323–345.

[99]

Garcia-Sancho, M. 2012. Biology, Computing, and the History of Molecular Sequencing. Palgrave Macmillan.

[100]

Garson, J. 2008. Chapter 28 - 'Function and Teleology'. A Companion to the Philosophy of Biology. Blackwell Pub. 525–549.

[101]

Gayon, J. 1998. Darwinism's Struggle for Survival: Heredity and the Hypothesis of Natural Selection. Cambridge University Press.

[102]

Ghiselin, M.T. 1989. 'Individuality, History and Laws of Nature in Biology'. What the Philosophy of Biology Is: Essays Dedicated to David Hull. Springer Netherlands. 53–66.

[103]

Ghiselin, M.T. 1987. 'Species Concepts, Individuality and Objectivity'. Biology and Philosophy. 2, 2 (1987), 127–143.

[104]

Gibbon, S. et al. 2018. Routledge Handbook of Genomics, Health and Society. Routledge.

[105]

Gilbert, S.F. and Epel, D. 2009. Ecological Developmental Biology: Integrating Epigenetics, Medicine, and Evolution - An Integrated Approach to Embryology, Evolution, and Medicine. Sinauer Associates.

[106]

Gilbert, W. 1991. Towards a Paradigm Shift in Biology. Nature. 349, 6305 (1991), 99–99.

[107]

Godfrey-Smith, P. 2010. The Strategy of Model-Based Science. Biology & Philosophy. 21, 5 (2010), 725–740.

[108]

Gotthelf, A. and Lennox, J.G. 1987. Philosophical Issues in Aristotle's Biology. Cambridge University Press.

[109]

Grene, M. 1976. Philosophy of Medicine: Prolegomena to a Philosophy of Science. PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association. 1976, (1976), 77–93.

[110]

Grene, M. and Depew, D. 2004. The Philosophy of Biology: An Episodic History. Cambridge

University Press.

[111]

Griesemer, J.R. 1990. Material Models in Biology. PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association. 1990, (1990), 79–93.

[112]

Griffiths, P. 2009. 'The Distinction Between Innate and Acquired Characteristics'. The Stanford Encyclopedia of Philosophy. (2009).

[113]

Griffiths, P. et al. 2009. The Vernacular Concept of Innateness. Mind & Language. 24, 5 (2009), 605–630.

[114]

Griffiths, P. and Stotz, K. 2013. Genetics and Philosophy: An Introduction. Cambridge University Press.

[115]

Griffiths, P.E. 2001. Genetic Information: A Metaphor in Search of a Theory. Philosophy of Science. 68, 3 (2001), 394–412.

[116]

Griffiths, P.E. and Gray, R.D. 2004. Chapter 19: The Developmental Systems Perspective: Organism-Environment Systems as Units of Evolution. Phenotypic Integration: Studying the Ecology and Evolution of Complex Phenotypes. Oxford University Press. 409–431.

[117]

Griffiths, P.E. and Stotz, K. 2007. Chapter 5 - 'Gene'. The Cambridge Companion to the Philosophy of Biology. Cambridge University Press. 85–102.

[118]

Griffiths, P.E. and Tabery, J. 2013. Chapter 3: Developmental Systems Theory: What Does it Explain and How Does it Explain it? Embodiment and Epigenesis: Theoretical and Methodological Issues in Understanding the Role of Biology within the Relational Developmental System, Part A: Philosophical, Theoretical, and Biological Dimensions. R.M. Lerner and J.B. Benson, eds. Academic Press. 65–94.

[119]

Grmek, M.D. 2018. Pathological Realities: Essays on Disease, Experiments, and History. Fordham University Press.

[120]

Hacking, I. 2006. Genetics, Biosocial Groups and the Future of Identity. Daedalus. 135, 4 (2006), 81–95.

[121]

Haldane, J.B.S. 1925. Daedalus: Or Science and the Future (A paper read to the Heretics, Cambridge, on February 4th, 1923). Kegan Paul, Trench, Trubner & co, ltd.

[122]

Haraway, D. 1997. Modest_Witness@Second_Millennium.FemaleMan_Meets_OncoMouse: Feminism and Technoscience. Routledge.

[123]

Haraway, D. 2008. When Species Meet. University of Minnesota Press.

[124]

te Heesen, A. 2000. 'Boxes in Nature'. Studies in History and Philosophy of Science Part A. 31, 3 (2000), 381–403.

[125]

Helmreich, S. 2011. 'What was Life? Answers from Three Limit Biologies'. Critical Inquiry. 37, 4 (2011), 671–696.

[126]

Hey, A.J.G. et al. 2009. The Fourth Paradigm: Data-Intensive Scientific Discovery. Microsoft Research.

[127]

Hinchliffe, S. 2007. Geographies of Nature: Societies, Environments, Ecologies. SAGE.

[128]

Hinchliffe, S. and Woodward, K. 2015. The Natural and the Social: Uncertainty, Risk, and Change. Routledge.

[129]

Holmes, F.L. 2004. Investigative Pathways: Patterns and Stages in the Careers of Experimental Scientists. Yale University Press.

[130]

Hull, D.L. 1974. Philosophy of Biological Science. Prentice-Hall.

[131]

Hull, D.L. 1988. Science as a Process: An Evolutionary Account of the Social and Conceptual Development of Science. University of Chicago Press.

[132]

Hull, D.L. and Ruse, M. 2007. The Cambridge Companion to the Philosophy of Biology. Cambridge University Press.

[133]

Jablonka, E. et al. 2014. Evolution in Four Dimensions: Genetic, Epigenetic, Behavioral, and Symbolic Variation in the History of Life. A Bradford Book.

[134]

Jablonka, E. and Lamb, M.J. 1995. Epigenetic Inheritance and Evolution: The Lamarckian Dimension. Oxford University Press.

[135]

Jacob, F. 1977. Evolution and tinkering. Science. 196, 4295 (1977), 1161–1166.

[136]

Jacob, F. 1973. The Logic of Life: A History of Heredity. Princeton University Press.

[137]

Jardine, N. 1996. Cultures of Natural History. Cambridge University Press.

[138]

Johannsen, W. 1911. 'The Genotype Conception of Heredity'. The American Naturalist. 45, 531 (1911), 129–159.

[139]

Johns Schloegel, J. and Schmidgen, H. 2002. General Physiology, Experimental Psychology and Evolutionism. Isis. 93, 4 (2002), 614–645.

[140]

Judson, H.F. 1996. The Eighth Day of Creation: Makers of the Revolution in Biology. CSHL Press.

[141]

Kant, I. 2005. Part 2 - 'Critique of the Teleological Judgement'. Critique of Judgement. J.H. Bernard, ed. Dover Publications.

[142]

Kay, L.E. 2000. Who Wrote the Book of Life?: A History of the Genetic Code. Stanford University Press.

[143]

Kell, D.B. and Oliver, S.G. 2004. Here is the Evidence, Now What is the Hypothesis? The Complementary Roles of Inductive and Hypothesis-Driven Science in the Post-Genomic Era. BioEssays. 26, 1 (2004), 99–105.

[144]

Keller, E.F. 2002. Making Sense of Life: Explaining Biological Development with Models, Metaphors and Machines. Harvard University Press.

[145]

Keller, E.F. 1995. Refiguring Life: Metaphors of Twentieth-Century Biology. Columbia University Press.

[146]

Keller, E.F. 2010. The Mirage of a Space Between Nature and Nurture. Duke University Press.

[147]

Kellert, S.H. et al. 2006. Scientific Pluralism. University of Minnesota Press.

[148]

Kevles, D.J. 1995. In the Name of Eugenics: Genetics and the Uses of Human Heredity. Harvard University Press.

[149]

Kingma, E. 2010. Paracetamol, Poison, and Polio: Why Boorse's Account of Function Fails to Distinguish Health and Disease. The British Journal for the Philosophy of Science. 61, 2 (2010), 241–264.

[150]

Kitchin, R. 2014. The Data Revolution: Big Data, Open Data, Data Infrastructures & Their Consequences. SAGE Publications Ltd.

[151]

Knuuttila, T. 2005. Models, Representation and Mediation. Philosophy of Science. 72, 5 (2005), 1260–1271.

[152]

Koenig, B.A. et al. 2008. Revisiting Race in a Genomic Age. Rutgers University Press.

[153]

Kohler, R.E. 1994. Lords of the Fly: Drosophila Genetics and the Experimental Life. University of Chicago Press.

[154]

Kohler, R.E. 1991. Systems of production: Drosophila, neurospora, and biochemical genetics. Historical Studies in the Physical and Biological Sciences. 22, 1 (1991), 87–130.

[155]

Kroes, P. 1995. Technology and Science-Based Heurisitics. New Directions in the Philosophy of Technology. Kluwer. 17–39.

[156]

Landecker, H. 2007. Culturing life: How Cells Became Technologies. Harvard University Press.

[157]

Latour, B. 1988. The Pasteurization of France. Harvard University Press.

[158]

Laubichler, M.D. and Maienschein, J. 2007. From Embryology to Evo-Devo: A History of Developmental Evolution. MIT Press.

[159]

Law, J. and Lynch, M. 1988. 'Lists, Field Guides and the Descriptive Organization of Seeing: Birdwatching as an Exemplary Observational Activity'. Human Studies. 11, 2/3 (1988), 271–303.

[160]

Lennox, J.G. 1995. Health as an Objective Value. Journal of Medicine and Philosophy. 20, 5 (1995), 499–511.

[161]

Lenoir, T. 1989. The Strategy of Life: Teleology and Mechanics in Nineteenth-Century German Biology. University of Chicago Press.

[162]

Leonelli, S. 2016. Chapter 3: What Counts as Data? Data-Centric Biology: A Philosophical Study. The University of Chicago Press. 69–92.

[163]

Leonelli, S. 2009. Chapter 10: Understanding in Biology: The Impure Nature of Biological Knowledge. Scientific Understanding: Philosophical Perspectives. University of Pittsburgh Press. 189–209.

[164]

Leonelli, S. 2013. 'Classificatory Theory in Biology'. Biological Theory. 7, 4 (2013), 338–345.

[165]

Leonelli, S. 2016. Introduction. Data-Centric Biology: A Philosophical Study. The University of Chicago Press. 1–9.

[166]

Leonelli, S. 2012. Introduction: Making Sense of Data-Driven Research in the Biological and Biomedical Sciences. Studies in History and Philosophy of Biological and Biomedical Sciences. 43, 1 (2012), 1–3.

[167]

Leonelli, S. 2014. What Difference Does Quantity Make? On the Epistemology of Big Data in Biology. Big Data & Society. 1, 1 (2014), 1–11.

[168]

Levins, R. 1966. The Strategy of Model Building in Population Biology. American Scientist. 54, 4 (1966), 421–431.

[169]

Longino, H.E. 2000. Chapter 12 - 'Towards an Epistemology for Biological Pluralism'. Biology and Epistemology. Cambridge University Press. 261–286.

[170]

Longino, H.E. and Keller, E.F. 1996. Feminism and Science. Oxford University Press.

[171]

Machamer, P. et al. 2000. 'Thinking About Mechanisms'. Philosophy of Science. 67, 1 (2000), 1–25.

[172]

Magnus, D. 2004. Chapter 23: The Concept of Genetic Disease. Health, Disease and Illness: Concepts in Medicine. Georgetown University Press. 233–242.

[173]

Mallet, J. 2008. 'Mayr's View of Darwin: Was Darwin Wrong About Speciation?' Biological Journal of the Linnean Society. 95, 1 (2008), 3–16.

[174]

Mameli, M. and Bateson, P. 2006. Innateness and the Sciences. Biology & Philosophy. 21, 2 (2006), 155–188.

[175]

Margulis, L. 1998. Symbiotic Planet: A New Look at Evolution. Basic Books.

[176]

Matthen, M. and Stephens, C. 2007. Philosophy of Biology. Elsevier.

[177]

Mayr, E. 1942. Chapter 5 - 'The Systematic Categories and the New Species Concept'. Systematics and the Origin of Species: From the Viewpoint of a Zoologist. Columbia University Press. 102–122.

[178]

Mayr, E. 1976. Chapter 33 - 'Species Concepts and Definitions'. Evolution and the Diversity of Life: Selected Essays. Belknap Press of Harvard University Press. 493–508.

[179]

Mayr, E. 1982. The Growth of Biological Thought: Diversity, Evolution and Inheritance. Belknap Press of Harvard University Press.

[180]

Mayr, E. 1982. The Growth of Biological Thought: Diversity, Evolution and Inheritance. Belknap Press of Harvard University Press.

[181]

Mayr, E. 1987. 'The Ontological Status of Species: Scientific Progress and Philosophical Terminology'. Biology and Philosophy. 2, 2 (1987), 145–166.

[182]

Mayr, E. 1997. This is Biology: The Science of the Living World. Belknap Press of Harvard University Press.

[183]

Mayr, E. 1988. Toward a New Philosophy of Biology: Observations of an Evolutionist. Belknap Press of Harvard University Press.

[184]

McLaughlin, P. 2001. What Functions Explain: Functional Explanation and Self-Reproducing Systems. Cambridge University Press.

[185]

Mcouat, G. 2001. 'Cataloguing Power: Delineating "Competent Naturalists" and the Meaning of Species in the British Museum'. The British Journal for the History of Science. 34, 1 (2001), 1–28.

[186]

McOuat, G.R. 1996. Species, rules and meaning: The politics of language and the ends of definitions in 19th century natural history. Studies in History and Philosophy of Science Part A. 27, 4 (1996), 473–519.

[187]

Meloni, M. et al. 2018. The Palgrave Handbook of Biology and Society. Palgrave Macmillan.

[188]

Mendelsohn, J.A. 2003. Lives of the Cell. Journal of the History of Biology. 36, 1 (2003), 1–37.

[189]

Meunier, R. 2012. Stages in the Development of a Model Organism as a Platform for Mechanistic Models in Developmental Biology: Zebrafish, 1970–2000. Studies in History and Philosophy of Biological and Biomedical Sciences. 43, 2 (2012), 522–531.

[190]

Mitchell, S.D. 1997. 'Pragmatic Laws'. Philosophy of Science. 64, (1997), S468-S479.

[191]

Mittelstadt, B.D. and Floridi, L. 2016. The Ethics of Biomedical Big Data. Springer.

[192]

Morange, M. 1998. A History of Molecular Biology. Harvard University Press.

[193]

Morgan, M.S. 2012. Chapter 1: Modelling as a Method of Enquiry. The World in the Model: How Economists Work and Think. Cambridge University Press. 1–43.

[194]

Morgan, M.S. and Morrison, M. 1999. Models as Mediators: Perspectives on Natural and Social Sciences. Cambridge University Press.

[195]

Morrison, M. and Morgan, M.S. 1999. Chapter 2: Models as Mediating Instruments. Models as Mediators: Perspectives on Natural and Social Sciences. M.S. Morgan and M. Morrison, eds. Cambridge University Press. 10–37.

[196]

Moss, L. 2003. What Genes Can't Do. MIT Press.

[197]

Müller-Wille, S. 2007. 'Collection and Collation: Theory and Practice of Linnaean Botany'. Studies in History and Philosophy of Biological and Biomedical Sciences. 38, 3 (2007), 541–562.

[198]

Müller-Wille, S. 2009. The Dark Side of Evolution: Caprice, Deceit, Redundancy. History and Philosophy of the Life Sciences. 31, 2 (2009), 183–199.

[199]

Müller-Wille, S. and Charmantier, I. 2012. 'Natural History and Information Overload: The Case of Linnaeus'. Studies in History and Philosophy of Biological and Biomedical Sciences. 43, 1 (2012), 4–15.

[200]

Mu

ller-Wille, S. and Rheinberger, H.-J. 2012. A Cultural History of Heredity. University of Chicago Press.

[201]

Mu

Iler-Wille, S. and Rheinberger, H.-J. 2007. Chapter 1: Heredity - The Formation of an Epistemic Space. Heredity Produced: At the Crossroads of Biology, Politics and Culture, 1500-1870. MIT Press. 3–34.

[202]

Nelson, N.C. 2018. Model Behavior: Animal Experiments, Complexity and the Genetics of Psychiatric Disorders. University of Chicago Press.

[203]

Nicholson, D.J. 2012. The Concept of Mechanism in Biology. Studies in History and Philosophy of Biological and Biomedical Sciences. 43, 1 (2012), 152–163.

[204]

Nicholson, D.J. and Gawne, R. 2014. 'Rethinking Woodger's Legacy in the Philosophy of Biology'. Journal of the History of Biology. 47, 2 (2014), 243–292.

[205]

Normandin, S. and Wolfe, C.T. 2013. Vitalism and the Scientific Image in Post-Enlightenment Life Science, 1800-2010. Springer.

[206]

Odenbaugh, J. 2016. Conservation Biology. The Stanford Encyclopedia of Philosophy. (2016).

[207]

Odenbaugh, J. 2006. Struggling with the Science of Ecology. Biology & Philosophy. 21, 3 (2006), 395–409.

[208]

Odling-Smee, F.J. et al. 2003. Niche Construction: The Neglected Process in Evolution. Princeton University Press.

[209]

Ogilvie, B.W. 2003. 'The Many Books of Nature: Renaissance Naturalists and Information Overload'. Journal of the History of Ideas. 64, 1 (2003), 29–40.

[210]

Ogilvie, B.W. 2006. The Science of Describing: Natural History in Renaissance Europe. University of Chicago Press.

[211]

Okasha, S. 2006. Evolution and the Levels of Selection. Oxford University Press.

[212]

Olby, R.C. 1966. Origins of Mendelism. Constable.

[213]

Olby, R.C. 1994. The Path to the Double Helix: The Discovery of DNA. Dover Publications.

[214]

O'Malley, M. 2014. Philosophy of Microbiology. Cambridge University Press.

[215]

O'Malley, M.A. et al. 2008. Knowledge-Making Distinctions in Synthetic Biology. BioEssays. 30, 1 (2008), 57–65.

[216]

O'Malley, M.A. et al. 2009. Philosophies of Funding. Cell. 138, 4 (2009), 611-615.

[217]

O'Malley, M.A. et al. 2010. 'The Tree of Life: Introduction to an Evolutionary Debate'. Biology & Philosophy. 25, 4 (2010), 441–453.

[218]

O'Malley, M.A. and Dupré, J. 2007. Size doesn't matter: Towards a more inclusive philosophy of biology. Biology & Philosophy. 22, 2 (2007), 155–191.

[219]

O'Malley, M.A. and Müller-Wille, S. 2010. The Cell as Nexus: Connections Between the History, Philosophy and Science of Cell Biology. Studies in History and Philosophy of Biological and Biomedical Sciences. 41, 3 (2010), 169–171.

[220]

O'Malley, M.A. and Soyer, O.S. 2012. The Roles of Integration in Molecular Systems Biology. Studies in History and Philosophy of Biological and Biomedical Sciences. 43, 1 (2012), 58–68.

[221]

Oyama, S. et al. 2001. Cycles of Contingency: Developmental Systems and Evolution. MIT Press.

[222]

Panchen, A.L. 1992. Classification, Evolution and the Nature of Biology. Cambridge University Press.

[223]

Parry, S. and Dupre, J. eds. 2010. Nature After the Genome. Wiley-Blackwell/The Sociological Review.

[224]

Paul, D.B. 1995. Controlling Human Heredity: 1865 to the Present. Humanities Press.

[225]

Pauly, P.J. 1987. Controlling Life: Jacques Loeb and the Engineering Ideal in Biology. Oxford University Press.

[226]

Pickstone, J.V. 2000. Ways of Knowing: A New History of Science, Technology and Medicine . Manchester University Press.

[227]

Plutynski, A. 2008. Chapter 10 - 'Specification and Macroevolution'. A Companion to the Philosophy of Biology. Blackwell Pub. 169–185.

[228]

Plutynski, A. 2008. Chapter 21: Ecology and the Environment. The Oxford Handbook of Philosophy of Biology. Oxford University Press. 505–524.

[229]

Polanyi, M. 1968. 'Life's Irreducible Structure'. Science. 160, 3834 (1968), 1308–1312.

[230]

de Queiroz, K. 2007. 'Species Concepts and Species Delimitation'. Systematic Biology. 56,

6 (2007), 879-886.

[231]

Rabinow, P. 2017. French DNA: Trouble in Purgatory. University of Chicago Press.

[232]

Radder, H. 2003. The Philosophy of Scientific Experimentation. University of Pittsburgh Press.

[233]

Reardon, J. 2005. Race to the Finish: Identity and Governance in an Age of Genomics. Princeton University Press.

[234]

Reiss, J. and Ankeny, R.A. 2016. Philosophy of Medicine. The Stanford Encyclopedia of Philosophy. (2016).

[235]

Reynolds, A. 2007. The Theory of the Cell State and the Question of Cell Autonomy in Nineteenth and Early Twentieth-Century Biology. Science in Context. 20, 1 (2007), 71–95.

[236]

Rhee, S.Y. 2004. Carpe Diem. Retooling the 'Publish or Perish' Model into the 'Share and Survive' Model. Plant Physiology. 134, 2 (2004), 543–547.

[237]

Rheinberger, H.-J. 2010. An Epistemology of the Concrete: Twentieth-Century Histories of Life. Duke University Press.

[238]

Rheinberger, H.-J. 1995. From microsomes to ribosomes: 'Strategies' of 'representation'. Journal of the History of Biology. 28, 1 (1995), 49–89.

[239]

Rheinberger, H.-J. 1997. Toward a History of Epistemic Things: Synthesizing Proteins in the Test Tube. Stanford University Press.

[240]

Rheinberger, H.-J. and Mu

ller-Wille, S. 2017. The Gene: From Genetics to Postgenomics. The University of Chicago Press.

[241]

Richards, R.A. 2008. Chapter 7: Species and taxonomy. The Oxford Handbook of Philosophy of Biology. Oxford University Press. 161–188.

[242]

Richards, R.A. 2010. The Species Problem: A Philosophical Analysis. Cambridge University Press.

[243]

Richardson, S.S. 2013. Sex Itself: The Search for Male and Female in the Human Genome. University of Chicago Press.

[244]

Richardson, S.S. and Stevens, H. 2015. Postgenomics: Perspectives on Biology after the Genome. Duke University Press.

[245]

Rieppel, O. 2010. 'New Essentialism in Biology'. Philosophy of Science. 77, 5 (2010), 662–673.

[246]

Rieppel, O. 2010. 'The Series, the Network and the Tree: Changing Metaphors of Order in Nature'. Biology & Philosophy. 25, 4 (2010), 475–496.

[247]

Root, M. 2003. The use of race in medicine as a proxy for genetic differences. Philosophy of Science. 70, 5 (2003), 1173–1183.

[248]

Rose, N. 2006. The Politics of Life Itself: Biomedicine, Power, and Subjectivity in the Twenty-First Century. Princeton University Press.

[249]

Rose, S. et al. 1984. Not in Our Genes: Biology, Ideology and Human Nature. Penguin.

[250]

Rosenberg, A. 2007. Chapter 7 - 'Reductionism (and Antireductionism) in Biology'. The Cambridge Companion to the Philosophy of Biology. 120–138.

[251]

Rosenberg, A. 1985. The Structure of Biological Science. Cambridge University Press.

[252]

Roughgarden, J. 2013. Evolution's Rainbow: Diversity, Gender, and Sexuality in Nature and People. University of California Press.

[253]

Rubin, D.L. et al. 2006. The National Center for Biomedical Ontology: Advancing Biomedicine Through Structured Organization of Scientific Knowledge. OMICS: A Journal of Integrative Biology. 10, 2 (2006), 185–198.

[254]

Ruse, M. 2008. The Oxford Handbook of Philosophy of Biology. Oxford University Press.

[255]

Sapp, J. 2003. Genesis: The Evolution of Biology. Oxford University Press.

[256]

Sarkar, S. 2005. Ecology. The Stanford Encyclopedia of Philosophy. (2005).

[257]

Sarkar, S. and Plutynski, A. 2008. A Companion to the Philosophy of Biology. Blackwell Pub.

[258]

Schaffner, K.F. 1993. Discovery and Explanation in Biology and Medicine. University of Chicago Press.

[259]

Schaffner, K.F. 1992. Philosophy of medicine. Introduction to the Philosophy of Science: A Text. Prentice Hall. 310–345.

[260]

Schaffner, K.F. 2006. 'Reduction: The Cheshire Cat Problem and a Return to Roots'. Synthese. 151, 3 (2006), 377–402.

[261]

Scharf, S.T. 2009. 'Identification Keys, the "Natural Method" and the Development of Plant Identification Manuals'. Journal of the History of Biology. 42, 1 (2009), 73–117.

[262]

Schiebinger, L. 2004. Nature's Body: Gender in the Making of Modern Science. Rutgers University Press.

[263]

Schmidgen, H. 2004. Pictures, Preparations, and Living Processes: The Production of Immediate Visual Perception (Anschauung) in Late-19th-Century Physiology. Journal of the History of Biology. 37, 3 (2004), 477–513.

[264]

Schweber, S.S. 1980. Darwin and the Political Economists: Divergence of Character. Journal of the History of Biology. 13, 2 (1980), 195–289.

[265]

Skipper, R.A. and Millstein, R.L. 2005. Thinking About Evolutionary Mechanisms: Natural Selection. Studies in History and Philosophy of Biological and Biomedical Sciences. 36, 2 (2005), 327–347.

[266]

Sloan, P.R. 1979. 'Buffon, German Biology and the Historical Interpretation of Biological Species'. The British Journal for the History of Science. 12, 2 (1979), 109–153.

[267]

Sloan, P.R. 1972. 'John Locke, John Ray and the Problem of the Natural System'. Journal of the History of Biology. 5, 1 (1972), 1–53.

[268]

Snyder, L.J. 2017. William Whewell. The Stanford Encyclopedia of Philosophy. (2017).

[269]

Sober, E. 2018. Philosophy of Biology. Westview Press.

[270]

Sober, E. 1997. 'Two Outbreaks of Lawlessness in Recent Philosophy of Biology'. Philosophy of Science. 64, (1997), S458–S467.

[271]

Sociology - LibGuides at University of Exeter: http://libguides.exeter.ac.uk/SociologyHomePage.

[272]

Sterelny, K. and Griffiths, P.E. 1999. Sex and Death: An Introduction to Philosophy of Biology. University of Chicago Press.

[273]

Stevens, H. 2013. Life Out of Sequence: A Data-Driven History of Bioinformatics. The University of Chicago Press.

[274]

Stotz, K. 2008. Biohumanities: Rethinking the Relationship Between Biosciences, Philosophy and History of Science and Society. The Quarterly Review of Biology. 83, 1 (2008), 37–45.

[275]

Stotz, K. et al. 2004. How Biologists Conceptualize Genes: An Empirical Study. Studies in History and Philosophy of Biological and Biomedical Sciences. 35, 4 (2004), 647–673.

[276]

Stotz, K. and Griffiths, P. 2004. Genes: Philosophical Analyses Put to the Test. History and Philosophy of the Life Sciences. 26, 1 (2004), 5–28.

[277]

Strasser, B.J. 2006. Collecting and Experimenting: The Moral Economies of Biological Research, 1960s-1980s. History and Epistemology of Molecular Biology and Beyond: Problems and Perspectives: Workshop. Max-Planck Institute for the History of Science.

[278]

Strasser, B.J. 2012. Collecting Nature: Practices, Styles and Narratives. Osiris. 27, 1 (2012), 303–340.

[279]

Suárez, M. 2004. An Inferential Conception of Scientific Representation. Philosophy of Science. 71, 5 (2004), 767–779.

[280]

Suárez, M. 1999. Theories, Models and Representations. Model-Based Reasoning in Scientific Discovery. Kluwer Academic/Plenum Publ. 75–83.

[281]

Sunder Rajan, K. 2006. Biocapital: The Constitution of Postgenomic Life. Duke University Press.

[282]

Sunder Rajan, K. 2017. Pharmocracy: Value, Politics, and Knowledge in Global Biomedicine. Duke University Press.

[283]

Sunder Rajan, K. 2017. Pharmocracy: Value, Politics, and Knowledge in Global Biomedicine. Duke University Press.

[284]

Temkin, O. 2006. Chapter 29: Health and disease. The Double Face of Janus and Other Essays in the History of Medicine. Johns Hopkins University Press. 419–440.

[285]

The Royal Society 2012. Science as an Open Enterprise: Final Report. The Royal Society.

[286]

UNESCO 1952. The Race Question in Modern Science: Results of an Inquiry. United Nations Educational, Scientific and Cultural Organisation.

[287]

Vickers, J. 2009. The Problem of Induction. The Stanford Encyclopedia of Philosophy. (2009).

[288]

Waters, C.K. 2007. The Nature and Context of Exploratory Experimentation: An Introduction to Three Case Studies of Exploratory Research. History and Philosophy of the Life Sciences. 29, 3 (2007), 275–284.

[289]

Waters, C.K. 2004. What Was Classical Genetics? Studies in History and Philosophy of Science. 35, 4 (2004), 783–809.

[290]

Weber, M. 2004. Chapter 3: Walking on the Chromosome: Drosophila and the Molecularization of Development. From Molecular Genetics to Genomics: The Mapping Cultures of Twentieth-Century Genetics. Routledge. 63–78.

[291]

Weber, M. 2008. Chapter 25: Experimentation. A Companion to the Philosophy of Biology. Blackwell Pub. 472–488.

[292]

Weber, M. 2004. Philosophy of Experimental Biology. Cambridge University Press.

[293]

Weisberg, M. 2006. Forty Years of 'The Strategy': Levins on Model Building and Idealization. Biology & Philosophy. 21, 5 (2006), 623–645.

[294]

Weisberg, M. 2013. Simulation and Similarity: Using Models to Understand the World. Oxford University Press.

[295]

Weisberg, M. 2007. Who is a Modeler? The British Journal for the Philosophy of Science. 58, 2 (2007), 207–233.

[296]

Whewell, W. 1840. The Philosophy of the Inductive Sciences. Parker.

[297]

Wilson, D.S. and Sober, E. 1989. Reviving the Superorganism. Journal of Theoretical Biology. 136, 3 (1989), 337–356.

[298]

Wilson, E.O. 1999. Consilience: The Unity of Knowledge. Abacus.

[299]

Wimsatt, W.C. 2007. Re-Engineering Philosophy for Limited Beings. Harvard University Press.

[300]

Woese, C.R. 2004. 'A New Biology for a New Century'. Microbiology and Molecular Biology Reviews. 68, 2 (2004), 173–186.

[301]

Young, R.M. 1985. Darwin's Metaphor: Nature's Place in Victorian Culture. Cambridge University Press.

[302]

Biological Theory.

[303]

Biology and Philosophy.

[304]

BioSocieties.

[305]

History and Philosophy of the Life Sciences.

[306]

Journal of the History of Biology.

[307]

New Genetics and Society.

[308]

Studies in History and Philosophy of Sciences Part C.

[309]

Theoretical Medicine and Bioethics.