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Academic Appointments

Director, Institute for Society and Genetics	2014-present
Professor, Department of Sociology & The Institute for Society and Genetics	2017-present
Associate Professor, Department of Sociology & The Institute for Society and Genetics	2008-2017
Visiting Assistant Professor, History of Science, Harvard University	2007-2008
Assistant Professor, Department of Anthropology, Rice University	2001-2008

Degrees

Massachusetts Institute of Technology Program in Science, Technology and Society, Ph.D	1994-2000
University of British Columbia Cell and Developmental Biology, B.Sc. (Honours)	1989-1993

Fellowships and Awards

Scholar's Award, American Council of Learned Societies	2013
Suzanne J. Levinson Book Award, History of Science Society <i>Best book in the history of the life sciences, for <i>Culturing Life</i></i>	2008
Rice University, <i>Graduate Student Teaching and Mentoring Award</i>	2005
University of Texas Medical Branch, Institute for Medical Humanities <i>Visiting Scholar</i>	2004
Max Planck Institute for the History of Science, <i>Post-doctoral Fellowship</i>	1999-2001
Smithsonian Institution, <i>Short-term Visitor's Grant</i>	1999
Dibner Institute for the History of Science and Technology <i>Dissertation Writing Fellowship</i>	1997-1999
Social Sciences and Humanities Research Council of Canada <i>Doctoral Fellowship</i>	1996-1999

Grants

Primary Investigator (Postdoctoral Mentor), “The Impact of Big Data on the Science of Metabolism,” NSF, Science and Technology Studies Section, 2014-2016.

Primary Investigator, “From Messenger to Signal: Metabolic Hormones and the Rise of the Signal Concept in the Life Sciences,” NSF, Science and Technology Studies Section, 2012-2014.

Primary Investigator, National Institutes of Health/National Library of Medicine G13 Scholarly Monograph Grant (declined), 2012.

Co-Primary Investigator (US Partner), “21st Century Cuisine, Nutrition and Genetics in the United States and France,” Partner University Fund, 2009-2011.

Primary Investigator, “Preventing Birth Defects...But Causing Cancer? Mandatory Folic Acid Fortification of Staple Foods in the United States: Nutrition Policy and the Food Supply,” Faculty Research Fellowship, UCLA Center for American Politics and Public Policy, 2009-2010.

Primary Investigator, “Epigenetics and the Molecular Politics of Maternal Care,” Faculty Seed Development Grant, UCLA Center for the Study of Women, 2009-2010.

Scholar’s Award, “A History of Microscopic Moving Images in Twentieth Century Life Sciences,” National Endowment for the Humanities, 2005.

Co-Primary Investigator, “Nanotechnology: Content and Context,” Nanotechnology Undergraduate Education Initiative, NSF, 2004.

Publications

Books

Culturing Life: How Cells Became Technologies, Harvard University Press, 2007.

American Metabolism, in preparation, under contract with Harvard University Press.

Journal Articles and Book Chapters

“The Matter of Practice in the Historiography of the Experimental Life Sciences,” in M. Dietrich and M. Borrello, eds. *Historiography of the Life Sciences*, Springer, in press.

“Metabolism, Autonomy, Individuality,” 225-248 in L. Nyhardt and S. Lidgard, eds. *What is an Individual? Where Philosophy, History and Biology Coincide*, Chicago University Press, 2017.

“Antibiotic Resistance and the Biology of History,” *Body and Society* 22(4):19-52, 2016.

“The Social as Signal in the Body of Chromatin,” *The Sociological Review Monographs* 64(1):79-99, 2016.

“It is What it Eats: Chemically Defined Media and the History of Surrounds,” *Studies in the History and Philosophy of Biological and Biomedical Sciences* 57:148-160, 2016 (special issue on Instruments and Media in Biological Sciences, edited by J. Steigerwald).

“Being and Eating: Losing grip on the equation,” *BioSocieties* 10(2):253-258, 2015. (commentary)

“Sociology in a Time of Genomic Instability: Copy Number Variation, Somatic Mosaicism, and the Fallen Genome,” (with Martine Lappé), *Advances in Medical Sociology*, Volume 16:157-186, 2015. (Outstanding Author Contribution, 2016 Emerald Literati Network Awards for Excellence).

“How the Genome Got a Life Span,” (with Martine Lappé), *New Genetics and Society* 34(2):152-176, 2015.

“The Information of Conformation: Commentary on Jablonka and Lamb’s ‘The Inheritance of Acquired Epigenetic Variation (1989)’” *International Journal of Epidemiology* 44(4):117-1108, 2015. (commentary)

“Post Industrial Metabolism: Fat Knowledge,” *Public Culture* 25(3):495-522, 2013.

“Metabolism, Reproduction, and the Aftermath of Categories,” *Feminist & Scholar Online* 11(3): Summer 2013.

“When the Control Becomes the Experiment,” *Limn 3: Sentinel Devices*, 2013.

“What’s In the Dish? A Commentary on Franklin’s *In Vitro Anthropos*,” *Cambridge Anthropology* 31(1):33-37, 2013.

“From Social Structure to Gene Regulation, And Back: A Critical Guide to Environmental Epigenetics For Sociology,” (with Aaron Panofsky), *Annual Review of Sociology* 39:333-357, 2013.

“The Metabolism of Philosophy, in Three Parts,” 193-224 in B. Malkmus and I. Cooper, eds. *Dialectic and Paradox: Configurations of the Third in Modernity*, Bern: Peter Lang, 2013.

“The Life of Movement: From Microcinematography to Live Cell Imaging,” *Journal of Visual Culture* 11(3):378-399, 2012. (translated as “Das (Eigen)Leben der Bewegung: Von der Mikrokinematografie zum *live-cell imaging*,” in P. Rathgeber and S. Leysen, eds. *Bilder animierter Bewegung / Images of Animate Movement*, Fink Verlag, 2013)

“Creeping, Drinking, Dying: The Cinematic Portal and the Microscopic World of The Twentieth Century Cell,” *Science in Context* 24(3):381-416, 2011.

“Food as Exposure: Nutritional Epigenetics and the New Metabolism,” *BioSocieties*, 6:167-194, 2011.

“Essen als Exposition. Epigenetik der Ernährung und die Molekularisierung der Umwelt,” [Food as Exposure: Nutritional Epigenetics and the Molecularization of the Environment, S. Bauer (trans.)] 135-162 in S. Bauer, C. Bischof, S. Haufe, S. Beck, L. Scholze-Irritz (eds.), *Essen in Europa. Kulturelle ‘Rückstände’ in Nahrung und Körper*. transcript Verlag: Bielefeld, 2010.

“Ten Thousand Journal Articles Later: Ethnography of ‘The Literature’ in Science,” (with Christopher Kelty), *Empiria* 18: 173-191, 2010.

“Living Differently in Time: Plasticity, Temporality and Cellular Biotechnologies,” 211-236 in *Technologized Images, Technologized Bodies: Anthropological Approaches to a New Politics of Vision*, J. Edwards, P. Harvey and P. Wade, eds. New York: Berghahn Books, 2010.

"Seeing Things: From Microcinematography to Live Cell Imaging," *Nature Methods* 6:707-709, 2009.

"Technical Matters: Method, Knowledge and Infrastructure in Twentieth Century Life Science," (with Angela N.H. Creager) *Nature Methods* 6:701-705, 2009.

"Die Erzählungen der Biotechnologie: Biowissenschaften und biographische Form," ["Biotechnology's Plots: Biomedicine and Biographical Form,"] 183-200 in *Engineering Life: Narrationen vom Menschen in Biomedizin, Kultur und Literatur*, Claudia Breger, Irmela Krüger-Fürhoff and Tanja Nusser, eds. Berlin: Kulturverlag Kadmos, 2008.

"Microcinematography and the History of Science and Film," *Isis* 97:121-132, 2006.

"Cellular Features: Microcinematography and Early Film Theory," *Critical Inquiry* 31:903-937, 2005.

"A Theory of Animation: Cells, L-Systems, and Film," (with Christopher Kelty), *Grey Room*, 17:30-63, 2004. (translated as "Eine Theorie der Animation: Zellen, L-Systeme und Film," in *Lebendige Zeit: Wissenskulturen im Werden*, Henning Schmidgen (ed.), Berlin: Kadmos, 2005.)

"The Lewis Films: Tissue Culture and 'Living Anatomy', 1919-1940," 117-144 in *Centennial History of the Carnegie Institute Department of Embryology*, Jane Maienschein, Marie Glitz and Garland Allan (eds.), Cambridge University Press, 2004.

"Building 'A New Type of Body in Which to Grow a Cell': The Origins of Tissue Culture," 151-174 in *Creating a Tradition of Biomedical Research: Contributions to the History of The Rockefeller University*, Darwin Stapleton (ed.), New York: Rockefeller University Press, 2004.

"On Beginning and Ending with Apoptosis: Cell Death and Biomedicine," 23-60 in *Remaking Life and Death: Towards an Anthropology of the Life Sciences*, Sarah Franklin and Margaret Lock (eds.), School of American Research Press, 2003.

"New Times for Biology: Nerve Cultures and the Advent of Cellular Life in Vitro," *Studies in the History and Philosophy of Biological and Biomedical Sciences*, 33:667-694, 2002. Translated as "Neue Zeiten für die Biologie: Nervenulturen und die Geburt zellulären Lebens in vitro," 307-337 in *Kultur im Experiment*, Henning Schmidgen, Peter Geimer and Sven Dierig (eds.). Berlin: Kadmos, 2004.

"Cellular Features: Immortality, Apoptosis, Apostrophe," (with Christopher Kelty, in German), in *Future Bodies: Zur Visualisierung von Körpern in Science und Fiction*, edited by Marie-Luise Angerer, Kathrin Peters, and Zoe Sofoulis, Springer, 2002.

"Immortality, *In Vitro*: A History of the HeLa Cell Line," 53-72 in *Biotechnology and Culture: Bodies, Anxieties, Ethics*, Paul Brodwin (ed.), Indianapolis: Indiana University Press, 2000. Reprinted in *A Reader in Medical Anthropology: Theoretical Trajectories, Emergent Realities*, Byron Good, Michael Fischer, Sarah Willen, Mary-Jo Delvecchio-Good (eds.), pp. 353-366, Wiley-Blackwell, 2010.

"Between Beneficence and Chattel: The Human Biological in Law and Science," *Science in Context* 12(1):203-225, 1999. Reprinted in *Law and Science Volume II: Regulation of Property, Practices, and Products*, Susan Silbey (ed.), Austin Sarat (series ed.), Ashgate Publishing, 2008.

"Screen for Enhancers of *Polycomb* and *Polycomblike* in *Drosophila Melanogaster*," first author, with Donald Sinclair and Hugh W. Brock, *Developmental Genetics* 15:425-434, 1994.

Popular Articles

Biltekoff, C., Mudry, J., Kimura, A., Landecker, H. and Guthman, J. “Interrogating Moral and Quantification Discourses in Nutritional Knowledge,” *Gastronomica* 14(3): 17-26, 2014.

Guthman, J., Broad, G., Klein, K., Landecker, H. “Beyond the Sovereign Body,” *Gastronomica* 14(3): 46-55, 2014

“Biomicroscopy of the Living Eye,” and “Strabismus Exercises in Wartime,” in M. Sappol, ed. *Hidden Treasure: 175 Years of the National Library of Medicine*, New York: Blast Books, 2012.

“Food as Exposure: Nutritional Epigenetics and the Molecular Politics of Eating,” Center for the Study of Women Update Newsletter, May, 18-26, 2010.

“Die Körpermedelle der Epigenetik: Das innere Laboratorium und die molekulare Leitung,” A. von Schwerin (trans.), *Gen-ethischer Informationsdienst* 8:42-54, 2008.

Book Reviews

“Heredity – the Long View,” review of *A Cultural History of Heredity*, by Staffan Müller-Wille and Hans-Jörg Rheinberger, *Science* 339:649, 2013.

Dolly Mixtures: The Remaking of Genealogy by Sarah Franklin, *Technology and Culture* 49(3): 826-827, 2008.

Cinematic Prophylaxis: Globalization and Contagion in the Discourse of World Health by Kirsten Ostherr, *Isis* 98(2):411, 2007.

Tissue Economies: Blood, Organs and Cell Lines in Late Capitalism, by Catherine Waldby and Robert Mitchell, *Journal of the History of Medicine and the Allied Sciences* 62:270-272, 2007.

A Genetic and Cultural Odyssey: The Life of Luca Cavalli-Sforza, by Linda Stone and Paul F. Lurquin. *Journal of the History of Biology*, 39:814-816, 2006.

Dictionary Entries

Edmund Vincent Cowdry. *New Dictionary of Scientific Biography*. Charles Scribner’s Sons (Thomson Gale). 2007.

Creative Works

“News About Cells, 1909-1964,” with Christopher Kelty. Film (7 minutes), finalist in the Bioclips Cinema of the Cell competition, screened at the European Life Sciences Organization meeting in Dresden, September 23, 2003.

Teaching (2008-2017)

Integrative Approaches to Human Biology and Society: Introduction to the Major (SocGen 5)
 Stress: Physiology, Biology, and Social Inequality (SocGen 180)
 Politics of Reproduction (Sociology M164, Women’s Studies 164)
 Biotechnology and Society (SocGen 130/Soc180E)
 Where Food Meets Genetics (SocGen 188)

Food and Science (Fiat Lux SocGen 19)
 Food, Medicine and Politics (Sociology 19)
 Biopolitics and Its Discontents (graduate seminar, Sociology 285)
 Sociology in Technoscientific Times (graduate seminar, Sociology 285)
 Introduction to Sociological Methods and Theory (graduate proseminar, Sociology 202)

Keynotes and Invited Lectures (2012-2017)

“Antibiotic Resistance and the Biology of History,” History and Philosophy of Science, University of Sydney, July 2017.

“A Short History of Metabolism, From the Industrial Age to the Epigenetic Present,” E.B. Wilson History and Philosophy of Science Friday Evening Lecture, Woods Hole, June 2017.

“Science Inside Out: Piecing Together New Developments in Epigenetics and the Microbiome,” keynote address, “Microbiome Goes Mainstream,” London School of Tropical Medicine and Hygiene, February 2017.

“Antibiotic Resistance and the Biology of History,” Max Planck Institute for the History of Science, Berlin, November 2016.

“The Butcher’s Philosophy: Health in a Metabolic Landscape,” Center for Population Research Colloquium, Ohio State University, March 2016.

“The Biology of History: From the Body as Machine to the Metabolic Community,” Institute for Arts and Humanities, Penn State University, October 2015.

“A Sociology of Metabolism in Epigenetic Times,” Sociology Department Colloquium, Columbia University, October 2015.

“The Metabolic Condition: Historical Notes,” Center for Science and Society, Columbia University, October 2015.

“From Food as Fuel to Nutrition as Regulation: Metabolism and Society,” Robinson Institute, University of Adelaide, September 2015.

“Embryos in Time: Metabolic, Filmic, and Genetic Accounts,” IVF Histories and Cultures Workshop Keynote, University of Cambridge, June 2015.

“Thinking Beyond Organs,” Center for Vascular Biology Research, Harvard University, April 2015.

“After Homeostasis,” Society of Fellows, Columbia University, April 2015.

“Cracked Ontologies: Before and After Metabolism and Genetics,” Technical University, Berlin, Germany, November 2014; University of British Columbia, Vancouver March 2015.

“Eating History: Food in Epigenetic Times,” European Molecular Biological Laboratories, Heidelberg, Germany, November 2014.

“Metabolism and Signal: From Food as Fuel to Nutrition as Regulation,” Department of Kinesiology and Nutrition, University of Illinois Chicago, September 2014.

“The Social as Signal in the Body of Transductions and Cascades,” Department of Social Science and Medicine, McGill University, April 2014.

“The Metabolism of History: Combustion, Homeostasis, Epigenesis,” History of Science, Technology and Medicine, University of Minnesota, January 2014.

“Biofallibility: Antibiotic Resistance and the Biology of History,” Institute for the Humanities, University of Minnesota, January 2014.

“The Metabolic Condition: Metabolism and Epigenetics in Contemporary Life,” Department of Social Medicine, University of North Carolina Chapel Hill, September 2013.

“Metabolism, Reproduction, and the Aftermath of Categories,” Majindra Center for the Humanities, Harvard University, September 2013; Stanford University Department of Anthropology, April 2013, UCLA History of Science Colloquium, March 2013.

“A Short History of Metabolism: From Food as Fuel to Nutrition as Regulation,” Burian McNabb Memorial Lecture, Virginia Tech, November 2012.

“Extract of Evolution Applied to Injuries of Risk Society: From Food as Fuel to Nutrition as Regulation,” Institute for Science, Innovation and Society, Oxford University, September 2012.

“From the Body as Factory to Eating Information: A Short History of Metabolism,” Medical Museion, Copenhagen, June 2012.

“Post-Industrial Metabolism,” Berkeley Center for Science, Technology and Medicine, April 2012.

“Metabolism and Milieu: Eating as Inter-Kingdom Communication,” TechnoScience Salon, Centre For Social Innovation, Toronto, March 2012.

Conference Presentations (2012-2017)

“The Food of our Food: Medicated Feed and the Industrialization of Metabolism,” Risk on the Table: Food, Health and Environmental Exposures, Princeton University, March 2017.

“Metabolic Ethics,” BioHumanities, University of Illinois Champaign-Urbana, March 2017.

“The Information of Conformation: Chromatin Memory as the Imprint of Experience,” EMBL/EMBO Science & Society Conference “The Past and the Present: The Making of Memories,” European Molecular Biology Laboratories, Heidelberg, November 2016.

“The Food of our Food: Medicated Feed and Growth in Twentieth Century Agriculture,” workshop “Food’s Entanglement with Life, University of Oslo, September 2016.

“Antibiotic Resistance and the Biology of History,” workshop “The Constructing of Antibiotic Resistance,” London School of Hygiene and Tropical Medicine, London, August 2016.

“Just Genomic? A Place for Metabolic Ethics in Precision Medicine,” workshop “Just Data: Justice, Knowledge and Care in an Age of Precision Medicine,” UC Santa Cruz, May 2016.

“Matter and Sense: A Sociological Study of Olfaction and Ontological Fracture in Contemporary Life Science,” Society for Literature, Science and the Arts, Houston, November 2015.

“The Social as Signal in the Body of Chromatin,” Environmental Epigenetics and the Promise of a Biosocial Science, Brocher Foundation Switzerland, May 2015.

“Epigenomic Technologies and Metabolic Politics: Rethinking Nutrition as a Social Environment,” Epigenomics and Health Care Policy, European Institute for Oncology Milan, November 2014.

“From Information to Conformation: Chromatin and Cell Biology Then and Now,” Updating Cowdry at the MBL, Woods Hole, October 2014.

“Metabolic Times,” From In Vitro to In Silico, workshop at the University of Leuphana, Lüneburg, Germany, June 2014.

“Commentary on Metabolic Philosophy: Digesting Biology in Mid-20th Century European Thought,” History of Science Society, Boston, November 2013.

“Metabolism, Reproduction, and the Aftermath of Categories,” American Anthropological Association, Chicago, November 2013.

“Metabolism – Reports From the Field,” Workshop on “Critical Nutrition,” UC Santa Cruz, March 2013.

Service to the Discipline(s)

Advisory Board Member. ReproSoc (Reproductive Sociology Group), Cambridge University, UK; MECS (Center for Media Cultures of Computer Simulation), Leuphana University, Germany; Center for the Study of Women, UCLA.

Editorial Board Member. Catalyst: Feminism, Theory and Technoscience; Frontiers in Ethical, Legal and Social Issues (ELSI) in Science and Genetics; Frontiers in Sociology; American Journal of Sociology (consulting editor).

Book Manuscript Reviewer

Chicago UP, MIT Press, UC Press, Duke UP, Minnesota UP, Harvard UP, Oxford UP, Cambridge UP.

Article Manuscript Reviewer

American Journal of Sociology; Environmental Sociology; Medical Anthropology Quarterly; BioSocieties; Body and Society; Social Science & Medicine; Radical History Review; Journal of the History of Biology; Current Anthropology; Cultural Anthropology; Nature Methods; Studies in the History and Philosophy of the Biological and Biomedical Sciences; Theory, Culture & Society.

Grant Reviewer

National Science Foundation (US), the Marsden Trust (New Zealand), the Wellcome Trust (UK), the American Council of Learned Societies (US), and the Partner University Fund (France-US).