

## Elena ARONOVA

### CURRICULUM VITAE

Max Planck Institute for the History of Science,  
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#### EDUCATION:

- Ph.D. University of California at San Diego, History 2012  
Thesis: *Studies of Science Before "Science Studies": Cold War and the Politics of Science in the U.S., U.K., and U.S.S.R., 1950s--1970s*  
Advisers: Naomi Oreskes and Cathy Gere
- Kandidat Nauk (=Ph.D.) Institute for the History of Science,  
Russian Academy of Sciences 2003  
Biology / History of Science  
Thesis: [*Debates on Lamarckism and Darwinism in the 20-ieth Century Immunology*]  
(in Russian)
- M.S. Moscow State University, Chemistry 1991

#### ACADEMIC EMPLOYMENT:

- 2012-pres Research Scholar, Max Planck Institute for the History of Science, Berlin
- 2011-2012 Lecturer (Associate-In), History Department, University of California, San Diego
- 2007-2010 Teaching Assistant and Reader/Grader, University of California, San Diego
- 2007, 2008 Research Associate, Scripps Institution of Oceanography, San Diego
- 2006-2007 Visiting Scientist, The Salk Institute for Biological Studies, San Diego
- 1999-2006 Researcher (2006-present: Associate Researcher), Institute for the History of Science and Technology, Russian Academy of Science, Moscow
- 1996-1999 Postgraduate Researcher, Institute for the History of Science and Technology, Russian Academy of Science, Moscow
- 1995-1998 Scientist, Laboratory of PCR-diagnostics, Clinical Center of DNA Research within the Russian Ministry of Public Health, Moscow
- 1991-1996 Scientist, Laboratory of Gene Bioengineering, Shemyakin and Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Science, Moscow

## FELLOWSHIPS AND MAJOR AWARDS

- 2014 Visiting Scholar, Die Graduiertenschule für Ost- und Südosteuropastudien, Munich, Germany (April-June 2014)
- 2011-2012 *Alfried Krupp Fellow*, Alfried Krupp Wissenschaftskolleg Greifswald, Germany (September 2011 - March 2012)
- 2011 UCSD Science Studies Program, Dissertation Writing Fellowship
- 2009-2010 Institute for International, Comparative, and Area Studies (UCSD), Research Grant
- 2008 International Center (UCSD), Fellowship
- 2005 *Scholar-in-Residence*, Rockefeller Archival Center
- 2004-2005 *Fulbright Scholar* to the U.S.
- 2002-2003 Scientific Council of the French Embassy in Moscow, Research Grant for the project "Sociology of French-Russian collaborations in exact sciences" (with Daniel Alexandrov)
- 2002 *ÉGIDE Scholar*, Institut d'Histoire et de Philosophie des Sciences et des Techniques, Université Paris 1 Panthéon-Sorbonne (1 month)
- 1999-2001 *Soros Foundation, Research Support Scheme*. Individual research grant

## PUBLICATIONS

### I. HISTORY AND PHILOSOPHY OF SCIENCE

#### *Books and edited volumes:*

- E.A. Aronova.** (2006). *Immunitet: teoriia, filosofiia, eksperiment: ocherki iz istorii immunologii XX veka* [Immunity: Theory, Philosophy and Experiment. Essays on the History of the XXth century Immunology.] 160 pp. Moskva: URSS Editorial. (in Russian)
- E.A. Liapunova and **E.A. Aronova** (Eds.). (2005). *Z. S. Nikoro. Vospominaniia genetika* [Z. S. Nikoro. Recollections of a Geneticist.] Moskva: Akademia. (in Russian)
- V. Arshavsky and **E.A. Aronova** (Eds.). (2002). *I.A. Arshavsky. My vse ravnopravny drug pered drugom. Sud'ba dominanty npravstvennosti.* [I. A. Arshavsky. Recollections about A. A. Ukhtomsky.] Riga: Experiment. (in Russian)

#### *Journal articles and book chapters:*

- Elena Aronova** (2015). "Environmental Monitoring in the Making: From Surveying Nature's Resources to Monitoring Nature's Change," *Historical Social Research* 40/2 (in press)

- Elena Aronova** (2014). "Big Science and 'Big Science Studies' in the United States and the Soviet Union during the Cold War," In *Science and Technology in the Global Cold War*, eds. Naomi Oreskes and John Krige (The MIT Press): 393-429.
- Elena Aronova** (2012). "The Congress for Cultural Freedom, *Minerva*, and the Quest for Instituting 'Science Studies' in the Age of Cold War. " *Minerva* 50/3 (2012): 307-337.
- Elena Aronova.** (2011). "The Politics and Contexts of Soviet Science Studies (*Naukovedenie*): Soviet Philosophy of Science at the Crossroads," *Studies in East European Thought* 63/3: 175-202.
- Elena Aronova**, Karen Baker, and Naomi Oreskes. (2010). "Big Science and Big Data in Biology: From the International Geophysical Year through the International Biological Program to the Long-Term Ecological Research Program, 1957-present," *Historical Studies in the Natural Sciences* 40/2: 183-224.
- Elena Aronova.** (2009). "In Search of the Soul in Science: Medical Ethics' Appropriation of Philosophy of Science in the 1970s," *History and Philosophy of the Life Sciences* 31: 5-34.
- Elena Aronova.** (2007). "Karl Popper and Lamarckism," *Biological Theory*, 2/1: 37-51.
- E.A. Aronova.** (2007). "Modeli, metafory i analogii v nauke ob immunitete: mezhdu khimiei, biologiei i meditsinoi" ["Models, Metaphors and Analogies in the Science of Immunity: Between Chemistry, Biology, and Medicine"] In A. A. Pechenkin (Ed.), *Istoria Nauki v Filosofskom Kontekste* [History of Science in Philosophical Context] , pp. 107-124. St.Petersburg: RKhGA. (in Russian)
- Daniel Alexandrov and **Elena Aronova.** (2004). "Russian Theoretical Biology between Heresy and Orthodoxy: Georgii Shaposhnikov and His Experiments on Plant Lice," in *Darwinian Heresies*, M. Ruse, R. J. Richards, and A. J. Lustig. (Eds.), pp. 14-47. Cambridge, Mass: Cambridge University Press.
- E.A. Aronova.** (2003). ["Karl Popper and "Popperianism" in Biology in the 1960s - 1980s,"] in A. A. Pechenkin (Ed.), *Philosofia nauki v kontekste* [Philosophy of Science in Context], pp. 253-290. St.Petersburg (in Russian)
- E.A. Aronova.** (2003). ["The Theories of Immunity: From Evolutionary Approaches to Evolutionary Metaphors (1860s-1960s),"] in E. I. Kolchinsky, I. Yu. Popov (Eds.), *Evolucionnaia biologii: istoriia i teoriia* [Evolutionary Biology: History and Theory], pp. 6-25. St.Petersburg (in Russian)
- E.A. Aronova.** (2002). ["Karl Popper, "Popperian Science" and the Discussions on Lamarckism in the 1960s-1980s,"] *Voprosy Istorii Estestvoznaniia i Tekhniki* [Issues in the History of Science and Technology], 2: 703-725. (in Russian)
- E.A. Aronova.** (2002). ["'Intellectual Migration': Molecular Biologists and Immunology, 1950s-1960s,"] in D. Sokolov (Ed.), *Sotciokul'turnye problemy nauki i tekhniki* [Sociocultural Problems of Science and Technology], pp. 103-115. Moskva. (in Russian)
- E.A. Aronova.** (2000) ["Different theoretical approaches to the description and explanation of heredity in the first half of the 20<sup>th</sup> century,"] in *Institut Istorii Estestvoznaniia i Tekhniki imeni S. Vavilova: Godichnaia nauchnaia konferentsiia. Plenarnye doklady.*

[Institute for History of Science and Technology: Annual Conference. Plenary Reports.], pp. 22-32. Moskva, IIET. (in Russian)

**Book reviews, encyclopedia articles, popular articles (excluding abstracts):**

- Elena Aronova** (2015). Review of Jacob D. Hamblin, *Arming Mother Nature: The Birth of Catastrophic Environmentalism* (Oxford, 2013). *Isis* (forthcoming).
- Elena Aronova** and Naomi Oreskes. (2010). Review of Oleg A. Godin; David R. Palmer (Eds.), "History of Russian Underwater Acoustics." *Isis* 101/3: 662-663.
- Elena Aronova.** (2005). "Raissa Berg," "Varvara Brilliant-Lerman." Biographical entries in *Encyclopedia of Jewish Women*, Jerusalem: Shalvi Publishing Ltd.
- E.A. Aronova** and D.A. Alexandrov. (2005). ["Darwinism, Lamarckism or In Between?"] *Priroda*, no. 4 (in Russian)
- E.A. Aronova.** (2004). Review of T. Soderqvist, ed., "The Historiography of Contemporary Science and Technology," Amsterdam, The Netherlands: Harwood Academic Publishers, 1997. *Voprosy Istorii Estestvoznaniia i Tekhniki* [Issues in the History of Science and Technology], 3: 143-147. (in Russian)
- E.A. Aronova.** (1997). ["Never-dying Lamarckism: Rise and Falls of the Lamarckian Idea in 19th and 20th centuries"], *Biologija: Prilozhenie k gazete Pervoe Sentiabria* [Biology: a supplement to newspaper for high-school teachers "1st September"], 41 & 42 (in Russian)
- E.A. Aronova.** (1998). Review of the "Dictionnaire du Darwinisme et de l'évolution" (3 volumes), sous la direction de P. Tort. Paris: PUF, 1996. *Priroda* 8: 119–121. (in Russian)

**II. BIOCHEMISTRY / MOLECULAR BIOLOGY**

- Efimov V.A., **Aronova E.A.**, Buriakova A.A., Kalinkina A.L., Letunova A.B., Fradkov A.F., Chakhmakhcheva O.G. (1994). "Synthesis and Cloning of Genes Encoding Antisense-Peptides for Human Calcitonin and Miniproinsulin," *Russian Journal of Bioorganic Chemistry*, 20: 412–422.
- Brovko L.Yu., Dementieva E.I., **Aronova E.A.**, Yevseev P.V. and N.N. Ugarova. (1994). "Bioluminescent Analysis of beta-galactosidase and its Application in Immunoassay and DNA Probes," *Analytical Letters*, 27: 2949-2959.

**IN PROGRESS**

«Geophysical Datascape: The World Data Centers and the Cold War Political Economy of Data Exchange,» *Osiris* thematic issue «Histories of Data.» (The first draft was discussed at the authors' workshop; the revised version is being submitted for external review in June 2015)

«Disowning the Founding Fathers? Politics and Contexts of Science Studies during the Cold War,» introductory chapter for collected volume of papers *Paradigms Defected:*

*Politics and Contexts of Science Studies during the Cold War and Beyond* (co-authored with Simone Turchetti). Submitted to the publisher as part of the collected volume proposal, pending review.

«The Rise and Demise of Scientometrics in the Soviet Union,» in collected volume of papers *Paradigms Defected: Politics and Contexts of Science Studies during the Cold War and Beyond* (in preparation)

#### MONOGRAPHS IN PREPARATION

*Science and the Cultural Cold War: Thinking Science on the Opposite Sides of the Iron Curtain, 1950s-1970s* (to be submitted to the University of Chicago Press in 2015)

*Following the Data of the International Geophysical Year: Environmental Archives and the Promise of Big Data during the Cold War and Beyond* (research in progress)

#### EDITED VOLUMES IN PREPARATION

*Paradigms Defected: Politics and Contexts of Science Studies during the Cold War and Beyond*, co-edited with Simone Turchetti (submitted to Palgrave Macmillan's History of Science and Technology Series, pending review)

*Histories of Data*, thematic issue of *Osiris*, co-edited with David Sepkoski and Christine von Oertzen (scheduled for publication in 2017)

#### SELECTED PRESENTATIONS:

“The Cold War Political Economy and Dark Data in Geophysics in the Cold War,” workshop “[Knowledge/Value and Dark Data: Absences, Interventions and Digital Worlds](#),” University of Exeter, UK, 15-16 December, 2014

“Doing Things with Data: Geophysical Datascares and the Politics of Environmental Archives in the Cold War,” History of Science Society annual meeting, Chicago, 6-9 November, 2014

“Geophysical Datascares: The World Data Centers and the Cold War Political Economy of Data Exchange, 1950s–1960s,” workshop “Histories of Data,” Max Planck Institute for the History of Science, Berlin, Germany, 16-18 October 2014

“(Big) Data Loss: The Challenges of Historical Data in the Environmental Sciences,” workshop “[Big Data is not a Monolith](#),” Maurer School of Law and School of Informatics and Computing, University of Bloomington, IN, 10 October, 2014

“Science and the Liberal Mind: The Congress for Cultural Freedom and the Quest for a ‘Post-Marxian Basis for Liberalism’,” Dept. II colloquium, Max Planck Institute for the History of Science, Berlin, Germany, June 26, 2014

*"Science, the Public, and the Russian Way: Seismology for the Masses,"* workshop "[Crowds and Clouds](#)," the University of Chicago, 4-5 April 2014

*"Following the Data: Environmental Archives and the Promise of Big Data, 1950s-1970s,"* A conference for graduate students and early-career scholars "Global Science, Global Technology, Global Impacts," Center for the History of Physics, American Institute of Physics, Washington, D.C., 30 March-1 April, 2014

*"Following the Data: Environmental Archives Between Geophysics and Biology,"* special seminar at the History Department of the University of California - Santa Barbara, February 3, 2014

*"The Norms of Big Science as a Site of Contest, Negotiation and Debate on the Opposite Sides of the Iron Curtain, 1950-1960s,"* workshop "Cold War Science: Secrecy, pedagogy and the dynamics of knowledge in US-Europe relations," Lorentz Centre and Museum Boerhaave, Leiden, The Netherlands, December 16 – 20, 2013

*"Do (Big) Data Have Politics? Cold War and the Political Economy of Data Exchange,"* workshop "Historicizing Big Data," Max Planck Institute for the History of Science, Berlin, Germany, October 31 – November 2, 2013

*"Big Science in the Archive: The IGY World Data Centers and the Political Economy of Data Exchange in the Cold War,"* ICHSTM, Manchester, UK, 26 July 2013

*"The Cold War and the Politics of Big Data in Environmental Sciences, 1957-1972,"* Lecture delivered within the seminar series *Neuere Perspektiven der Wissenschaftsgeschichte*, LMU, Munich, 11 July 2013

*"Knowledge of the Globe and Global Politics: 'Global Network for environmental Monitoring' Project, 1960s-1970s,"* workshop *Knowledge Production about Planet Earth and the Global Environment as Indicators of Social Change*. University of Bern, Switzerland, January 2013

*"UNESCO, the Congress for Cultural Freedom, and the Politics of History of Science / Science Studies in the Cold War,"* History of Science Society annual meeting, San Diego, November 15-18, 2012

*"Cold War and the History of Science,"* workshop "Towards a history of the history of science: 50 years since 'Structure'," Max Planck Institute for the History of Science, Berlin, Germany, October 17-20, 2012 (invited contribution to round table panel discussion)

*"The Politics of Science Studies in the Cold War: The Congress for Cultural Freedom and its Quest for 'Liberal Studies of Science,' 1960s-70s,"* International Workshop "Politics and Context of Science Studies during the Cold War and Beyond," Alfried Krupp Wissenschaftskolleg Greifswald, Germany, March 22-24, 2012 (Workshop Organizer and Presenter)

*"How 'Big Science' Changed the Perception of the Role of Science in Society: Discussions on the Phenomenon of Big Science in the USA and USSR in the 1960s and 1970s,"* Conference "Engineers, Exact Scientists, and Political Processes: Global Perspectives," Harvey Mudd College, California, March 2-3, 2012 (invited contribution, read by Judy Augsburg)

*"Popper and Lamarckism,"* History and Philosophy of Biology Reading Group, University of Leeds, UK, November 29, 2011 (invited)

*"The politics of STS: Instituting Science Studies in the Age of Cold War,"* Seminar "Twentieth Century Think Tank," Department of History and Philosophy of Science, University of Cambridge, UK, November 23, 2011 (invited)

*"How the Cold War Transformed Soviet Science Studies (naukovedenie),"* 2010 Bacon Conference "How the Cold War Transformed Science," California Institute of Technology, Pasadena, California, May 7-9, 2010 (invited)

*"Taking Another Look at Marx: Re-Marxification of Scientific Revolutions in the Soviet Union, 1960s-1980s,"* Council for European Studies, 17<sup>th</sup> Annual Conference, Panel "Philosophy and Social Sciences in the Post-Stalinist Soviet Union." Montreal, Canada, April 15-17, 2010 (Panel Chair/Organizer and Presenter)

*"Politics and Context of Soviet Science Studies (naukovedenie), in the 1960s-1980s,"* UCSD Science Studies Program's 20<sup>th</sup> Anniversary Workshop, "Science Studies in Context," San Diego, California, March 19-20, 2010 (invited)

*"In Search of the Soul in Science: Medical Ethics' Appropriation of Philosophy of Science in the 1970s,"* Vienna International Summer University "History and Philosophy of the Biomedical Sciences," Vienna, Austria, June 30-July 11, 2008

*"The Molecularization of Life Sciences after 1950: The case of immunology,"* lecture at the Center for Science Studies, Interdisciplinary Studies Department, Wayne State University. Detroit, MI, 21 March 2005 (invited)

*"Debates on Darwinism and Lamarckism in immunology, 1950s-1960s,"* International workshop "Alternative Evolutionary Theories in the 20th and 21st Centuries in the International and Interdisciplinary Perspective," S-Petersburg, Russia, 3-5 June 2004 (invited)

*"Women in the Early History of Genetics in Russia,"* International Society for the History, Philosophy and Social Studies of Biology Annual Meeting, Vienna, Austria, 16-20 July 2003

*"Molecular biologists and immunology, 1950s-1960s: a disciplinary migration,"* the Royal Institute Workshop "Molecular biology in the XXth century," London, UK, 28-29 April 2003 (read by Janet Browne)

*"Karl Popper and Lamarckism,"* Karl Popper 2002 Centenary Congress. Karl Popper Institute and the University of Vienna, Vienna, Austria, 3-7 July 2002

*"Biologie Lamarckienne en Russie,"* lecture at the Colloquium on the history of twentieth century Lamarckism, organized by *l'Equipe REHSEIS*. Université Paris-VII, France, 17 May 2002 (invited, in French)

*"Neo-Darwinism, Lamarckism, and Theoretical Biology in Russia in the Second Half of the Twentieth Century"* (paper in co-authorship with D. Alexandrov), the Max Planck Institute for the History of Science, Berlin, Germany, 14-17 December 2000 (invited)

*"Lamarckism, Neo-Darwinism, and plant-lice: interpreting experiments in the studies of experimental evolution,"* History of Science Society Annual Meeting, Pittsburgh, PA, 4-7 November 1999

## TEACHING

### ***Courses Taught:***

Ludwig Maximilian University, Munich, Germany:

“Cold War Science” (Sommersemester 2014, co-taught with Dr. Christian Joas)

University of California at San Diego:

“The Darwinian Legacy” (HISC 114) (Winter 2011, Spring 2012)

### ***Courses Assisted:***

University of California at San Diego, History Department:

“The Emergence of Modern Science,” TA for Professor Tal Golan (Spring 2010)

“The Pursuit of the Millennium,” Reader for Professor Nancy Caciola (Winter 2010)

“History of Modern Medicine,” TA for Professor Cathy Gere (Fall 2009)

“The Russian Empire and the Soviet Union 1855-1991,” TA for Professor Robert Edelman (Spring 2009)

“History of the Life Sciences in the Twentieth Century,” TA for Professor Catherine Gere (Winter 2009)

University of California at San Diego, Sixth College, Academic Writing Program “Culture, Art and Technology”:

“Material Cultures,” TA for Professor Martha Lampland (Fall 2010)

“Culture, Art, Technology, and Cyberspace,” TA for Professor Adolf Muniz (Fall 2008)

“Playing by the Rules: Games In and Out of the Ordinary World,” TA for Professor Roger Ngim (Spring 2008)

“Laws of Man and Laws of Nature,” TA for Professor Tal Golan (Winter 2008)

“Natural Disasters and Human Culture,” TA for Professor Linda Strauss (Fall 2007)



## PEER REVIEW

External grant reviewer, National Science Foundation

Manuscript reviewer for the journals:

*Historical Studies in the Natural Sciences;*

*Studies in History and Philosophy of Biological and Biomedical Sciences;*

*Science in Context;*

*Minerva;*

*Biological Theory;*

*Spontaneous Generations: A Journal for the History and Philosophy of Science*

## LANGUAGES

Russian - native speaker

English – fluent

French – proficient

Latin and classical Greek – reading knowledge with dictionary