

**C.V. AND LIST OF PUBLICATIONS (10/25/06)**

**DR. PNINA GERALDINE ABIR-AM**

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DR. PNINA GERALDINE ABIR-AM

**GENERAL DESCRIPTION OF RESEARCH AREAS:** (& Current/ Future Research Projects)

- **Comparative History of Biomolecular Sciences in Europe and America:**
  - Research Schools of Molecular Biology in UK, US, and France, 1920-1970: National Traditions or Transnational Strategies of Innovation?
  - The Transatlantic Origins of Biogen: Biotechnology and the Changing Uses of Life in Late Modernity.
  
- **History and the Ethics of Memory: Commemorative Practices in Science**
  - DNA at 50, 40, 21: From Distributive Justice to Festivals of Genes and Society.
  - The Scientist as Public Intellectual: Commemorating Jacques Monod's Legacy. (2006, 1976)
  
- **History of Women and Gender in Science; Science Policy for Gender Equity**
  - Remembering Women Scientists in England, China, and India: Nobel Laureate Dorothy Hodgkin, (1910-1994) and her Global Research Group.
  - Science Policy or Social Policy for Women in Science: Lessons from Historical Case Studies. (An updated response to the 2005-06 debate)
  
- **The Public and Private Funding of Science in the 20<sup>th</sup> Century; Comparing Philanthropic Foundations and State Agencies in US, UK, and France:**
  - Superseding the Rockefeller Foundation after WW2: Ford, Nuffield, Volkswagen Foundations and the Funding of Molecular Biology.
  - Science Statesmanship in Europe and America: A Comparative Study of Leadership at the MRC (UK), the NSF (USA), CNRS/ (France).

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### **RESEARCH EXPERIENCE:**

- National Science Foundation / STS-Independent Award / Principal Investigator, October 2005-07, *DNA at 50: History and the Ethics of Memory*. May 2005-present, *The Current Debate on Women in Science: From History to Policy*.
- Scientific Legacies, <<http://scientificlegacies.org>> Director; Strategic Planning for Scientific Anniversaries, 2003-present.
- Rockefeller University, The Archive Center, Sleepy Hollow, N.Y., USA, Scholar-in-Residence. History of Rockefeller Foundation and Rockefeller University, 2001-2003.
- Harvard University, Cambridge, MA. USA, Department of the History of Science, Visiting scholar, 2000-2002; Post-doctoral Fellow, 1985-1989.
- CNRS, Paris, France (CRHST / Cite des Sciences et d'Industrie) Directeur-de-Recherche, 1999, 1993. *Comparing French and American Schools of Molecular Biology*.
- M.I.T., The Dibner Institute for the History of Science and Technology, Cambridge, MA. USA, Senior Fellow, 1995-96. *The Controversy over Protein Structure in the 1930s*.
- Boston University, Center for Philosophy of Science, Senior Research Associate, 1994-95. *Commemorative Practices in Science and The Politics of Collective Memory*.

**TEACHING EXPERIENCE:** (both undergraduate and graduate students; History of Molecular Life Sciences, Social Impact of Science & Technology, History of Women and Gender in Science, Introduction to History, Philosophy, and Sociology of Science)

- **UNIVERSITY OF CALIFORNIA AT BERKELEY**, NSF Visiting Associate Professor, Departments of History and Women's Studies, 1998-2000.
- **UNIVERSITY OF OTTAWA**, Ottawa, Canada. Joint Chair of Women's Studies (bi-lingual position shared with Carleton University; rotates every year) 1997.
- **THE HEBREW UNIVERSITY OF JERUSALEM**, Lady Davis Visiting Professor. Program in History, Philosophy and Sociology of Science, fall 1996.
- **THE JOHNS HOPKINS UNIVERSITY**, Baltimore, MD. USA. NSF Visiting Associate Professor, Department of History of Science, Technology, and Medicine, and the Program in Women's Studies, 1991-1993.

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### EDUCATION:

- UNIVERSITE DE MONTREAL, Canada, **Ph.D.**, 1984, Institut d'Histoire et de Sociopolitique des Sciences (Adviser: M. le Professeur Camille Limoges, Sous-ministre for Science & Technology, Quebec; Ph.D. Dissertation: (1977-84) *The Biotheoretical Gathering in England, 1932-1938 as the Origins of Molecular Biology: A Study in Collective Creativity and Transdisciplinary Authority*).
  
- THE UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA. USA; Exchange doctoral student, 1975-1977; Department of History & Sociology of Science.
  
- THE HEBREW UNIVERSITY OF JERUSALEM:
  - **M.Sc.** in History & Philosophy of Science. (Suma Cum Laude), 1975.
  - **B.Sc.** in Chemistry (Major Subject) & Biology (Minor Subject) 1971.
  - **Diplome** in Science Teaching, School of Education, 1972.

### Prizes & Awards: (Selected)

- ◆ **The Wellcome Trust**, London, Travel award for archival research at Churchill College Archive Center (Cambridge) Wellcome Library (London), 2005.
- ◆ **Brandeis University**, Waltham, MA. Hadassah-Brandeis Institute Award, 2005.
- ◆ **University of Indiana**, Bloomington, IN. Lilly Library Helms Award, 2004.
- ◆ **CNRS / CRHST / CSI**, Paris. "Post Rouge" for foreign scholars, 1993, 1999.
- ◆ **National Science Foundation**, Visiting Professorship Awardee, 1996, 1990.
- ◆ **Dibner Institute** Award for Advanced Studies in History of Science, (consortium of M.I.T., Boston, Brandeis, and Harvard Universities, Cambridge, MA) 1995-96.
- ◆ **American Philosophical Society Library**, Philadelphia, Mellon Award, 1995.
- ◆ **History of Science Society** in the US, Prize for "outstanding research". (for publications 1987b) December 1988.

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### **INTERNATIONAL EXPERIENCE** (selected; as invited speaker)

- ❑ British Society for History of Science, London, “Scientists & Social Commitment – the 75<sup>th</sup> anniversary of the 2<sup>nd</sup> ICHS, September 2006.
- ❑ Max Planck Institute, Berlin, “Boundaries of Molecular Biology”, October 2005.
- ❑ International Congresses of History of Science: Beijing – July 2005. (also Mexico City - 2001; Liege - 1997; Zaragoza - 1993; Berkeley/CA – 1985; Bucharest – 1981)
- ❑ Oxford Brookes University, “History of Pharmaceuticals”, Oxford, July 2005.
- ❑ Weizmann Institute of Science, “Dorothy Hodgkin in England, China, India”, Dec. 2005.
- ❑ The Hebrew University of Jerusalem, “Rosalind Franklin & DNA”, Dec. 2004.
- ❑ Van Leer Jerusalem Foundation, “The reception of DNA structure in Israel in 1956”, 2004.
- ❑ Royal Institution, London, “The Rockefeller Foundation and DNA Research”, April 2003.
- ❑ Maastricht University, Holland, “Dorothy Hodgkin and Oxford Crystallography”, Nov. ‘02.
- ❑ Olivetti Foundation, Science and Philanthropy in Europe, Amalfi, Italy, 07/2001.
- ❑ International Cmte. on Women in the History of Science, Cambridge, UK, 09/1999.
- ❑ British Society for History of Science, “Time, History, Commemoration”, Liverpool, 09/99.
- ❑ University of East London, “Frontiers of Memory”, 09/1999.
- ❑ Moravian Museum, Brno, Czech Rep., *The 130th anniversary of Mendel's Laws*, July ‘95.
- ❑ European University Institute, Florence, *Science in the 20th Century*, June 1995.
- ❑ Royal Swedish Academy of Sciences, Abisko, *What is International in Science?* May ‘91.
- ❑ Berkeley-Bologna-Uppsala Summer School, Uppsala University, Sweden, June 1990.
- ❑ NATO/ Advanced Study Institute on Science Policy, Il Ciocco/Pisa, Italy, October 1989.
- ❑ CNRS & the Pasteur Institute, *Centennial of the Pasteur Institute*, Paris, June 1988.
- ❑ Sarton Centennial, 4S, HSS, EASST Joint Conference, Ghent, Belgium, Nov. 1984.
- ❑ Summer School on Respiration, Stazione Zoologica, Naples & Ischia, Italy, July 1984.

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DR. PNINA GERALDINE ABIR-AM

### **PROFESSIONAL ACTIVITIES:** (Selected)

#### ■ **Speaker, Commentator and/or Session Organizer (\*)** at the Annual Meetings of:

- American Historical Association (January 4-7, 2007\* in Atlanta, Georgia);
- Society for History of Technology (October 12-15, 2006 in Las Vegas, Nevada);
- International Union for History of Science (2005, 2001, 1997, 1993\*, 1985, 1981);
- The History of Science Society (2005, 2003, 1999, 1995-1988, every year\*; 1986\*);
- Society for Social Studies of Science (2001, 1997, 1991, 1987, 1986\*, 1985\*, 1984\*);
- European Association for the Study of Science & Technology (1992\*, 1988\*, 1984);
- American Association for the Advancement of Science (2003, 1991\*, 1990\*, 1989\*);
- American Sociological Association (1990, 1989);
- International Society for the History, Philosophy and Sociology of Biology (2001, 1995\*, 1993, 1989\*, 1987\*).

#### ■ **Referee for Research Grants:**

- National Science Foundation, Washington D.C. for Programs in:
  - Science, Technology and Society;
  - Ethics and Values in Science & Technology;
  - Sociology; - Anthropology.
- National Endowment for the Humanities, Washington D.C.
- MacArthur Foundation, Chicago.

#### ■ **Referee for Journals:**

- OSIRIS (Member of the Editorial Board, 1995-2000); - ISIS;
- Social Studies of Science; - Science, Technology and Human Values;
- Journal of the History of Biology; - History & Philosophy of Life Sciences.

#### ■ **Referee for Books:**

- Various University Presses (e.g. Harvard University Press, Oxford University Press, Yale University Press; most recently in February 2005);
- Rutgers University Press, in charge of supervising the refereeing process for "Lives of Women in Science", as Founding Series Editor (1989-1991).

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**PROFESSIONAL HIGHLIGHTS:** (see further details on “original contributions, topical range, methodological breadth and impact” on p. 13)

- Special issues in leading American and British refereed journals:
  - *OSIRIS*, 2000. (*Historical Perspectives on the Politics of Collective Memory*)
  - *Social Epistemology*, 1992. (Historical Ethnography of Scientific Anniversaries)
  - *Social Studies of Science*, 1984. (The Rockefeller Foundation and Molecular Biology)
- Enthusiastic reviews in leading American and British journals; e.g. “The most original and conceptually bold” (*American Historical Review*, February 1998); “masterful” and “deliciously nuanced” (*British Journal for History of Science*, December 2001).
- Widely cited in books, essays, and reviews by other authors.
- Recipient of research grants, from US, UK, and France, as sole principal investigator.
- Acknowledgments from almost every author in the history of molecular biology.
- A dozen titles in print (if counting both hard and soft covers).
- Work translated and/or reviewed in several languages, including French, Spanish, Romanian, Portuguese, Arabic, Russian, and Chinese.
- Keynote speaker, **Maastricht University, Holland, February 9, 2007**; Israeli Academy of Science, Jerusalem, May 1, 2003; Latin-American Association for the Social Study of Science, Caracas, September 10, 1996; Conference on “Vagabondage: The Poetics and Politics of Movement”, University of California at Berkeley, CA. March 1996.
- Guest lecturer in Departments of History of Science and Women’s Studies in Canada, Holland, Israel, Italy, Mexico, Portugal, UK, US. (in over two dozen universities)
- Interviews / coverage in the media: (selected)
  - *US News & World Report*, August 2006 – see link on website under “DNA at 50”;
  - *Biomednet*, electronic journal, April 2003; “
  - *New York Times*, September 1998;
  - *University of Ottawa Gazette*, February 1997;
  - *Diario di Lisboa*, January 1994;
  - *The Atlanta Constitution*, May 1993;
  - *The Baltimore Sun*, April 1992;
  - *Chronicle of Higher Education*, September 1991.

## **PERSONAL:**

- ❑ US citizen; Israeli citizen; Canadian Resident as graduate student;
- ❑ Married to Alan Lee Fleischman; One daughter, Estee, age 20.
- ❑ Languages: Proficient in English, Hebrew, French, Romanian; some Spanish.

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### PUBLICATIONS:

#### Monographs:

- I) *'DNA at 50': History and the Ethics of Memory, 2003/1953*. [Compares the 50<sup>th</sup> anniversary of DNA structure in UK & US with the "actual past" circa 1953] (2007)
- II) *The Transatlantic Origins of Biogen: Biotech and the Changing Meaning of Life in Late Modernity*. (2008)
- III) *The Biotheoretical Gathering and the Origins of Molecular Biology in England, 1932-1938* (Unpublished Ph.D. dissertation, Universite de Montreal, 1984) 400pp. Compressed version published in *History of Science* (London) in March 1987, 1-70.

#### Collections of Essays, Edited or Co-edited:

- IV) *Commemorative Practices in Science: Historical Perspectives on the Politics of Collective Memory* (Chicago: Chicago University Press, 2000), edited with C.A. Elliott. Reviewed in: *British Journal for the History of Science*, 12/2001; *ISIS*, 09/2001.
- V) *La Mise en Memoire de la Science: Pour une Ethnographie Historique des Rites Commemoratifs*. (Paris: Editions des Archives Contemporaines, 1998)
- VI) *Creative Couples in the Sciences*. (Rutgers University Press, 1996) Edited with H.M. Pycior and N.G. Slack; reviewed in *Am. Hist. Review*; *Science*; *Medical Technology*.
- VII) *Uneasy Careers and Intimate Lives, Women in Science, 1789-1979*. (Rutgers University Press, 1989/1987) Edited with D. Outram; reviewed in *History of Science*, *Science*, *Science and Society*; *Contemporary Sociology*; *In the Times*; *Nuncius*.

#### Work-in-Progress:

- VIII) *Research Schools of Molecular Biology in UK, US, and France, 1920-1970: National Traditions or Transnational Strategies of Innovation? (a multi-volume work to encompass comparative volumes of British, French, and American schools)*
- IX) *Science Policy or Social Policy for Women in Science: Lessons from Historical Case-studies or The Portrait of the Scientist as a Young Wo/Man*.

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**PUBLICATIONS: (continuation)**

Articles: (excluding encyclopedia entries, prefaces to books by others; commentaries)

- \* = main topic is “comparative history of biomolecular sciences”;
- \*\* = main topic is “methodology, theory, historiography, historical ethnography”;
- \*\*\* = main topic is “women and gender in science”;
- \*\*\*\* = main topic is “science funding/ philanthropic foundations”.

- 1) \* “The Recent Historiography of Molecular Biology: A Transnational Quest for the Big Picture”, *History of Science* (London) vol. 44, (2006), 95-118.
- 2) \* “DNA at 50: Institutional and Biographical Perspectives”, *Minerva*, 42 (2004) 191-213; in Spanish translation in A. Ambroghi, ed. *Studies in the History of DNA, Madrid, 2005*.
- 3) \*\*\*\* “The Rockefeller Foundation and the Rise of Molecular Biology [in UK]”, *Nature Reviews – Molecular Cell Biology*, 3 (January 2002), 65-70.
- 4) \* “Molecular biology in the context of British, French, and American cultures” in H. Vessuri (ed.), *Sciences and Cultures*, special issue, no. 168, of *International Social Science Journal*, June 2001, 187-199. (Also in French, Spanish, Arabic, Russian, Chinese)
- 5) \*\*\*\* “The strategy of large versus small scale investments: The Rockefeller Foundation’s international network of protein research, 1930-1960” in *American Foundations and Large Scale Research*, ed. G. Gemelli (Bologna: Clueb, 2001), 71-90.
- 6) \*\*\*\* “The Rockefeller Foundation and refugee biologists: The European and American careers of leading RF grantees from England, France, Germany, and Italy” in G. Gemelli (ed.), *The “Unacceptables”, American Foundations and Refugee Scholars between the Two World Wars*. (Brussels: P.I.E., 2000) 217-240.
- 7) \* “The first American and French commemorations in molecular biology: From collective memory to comparative history” in Abir-Am & Elliott (eds.), *Commemorative Practices in Science: Historical Perspectives on the Politics of Collective Memory*, (Chicago: University of Chicago Press, 2000) 324-372.
- 8) \*\* “Introduction”, in *Commemorative Practices in Science: Historical Perspectives on the Politics of Collective Memory*, op.cit., 1-34.

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**PUBLICATIONS: (continuation)**

- 9) \* “Entre memoire collective et histoire en biologie moleculaire: Les premiers rites commemoratifs pour les groupes fondateurs”, in P.G. Abir-Am (ed.) *La Mise en Memoire de la Science: Pour une Ethnographie Historique des Rites Commemoratifs* (Paris: Edition des Archives Contemporaines, 1998) 25-75.
- 10) \*\* “Introduction” in *La mise en memoire de la science: Pour une Ethnographie Historique des Rites Commemoratifs*, op.cit., 1998), 1-14.
- 11) \* “The molecular revolution in 20th Century biology: Three eras of post-war transdisciplinary stability” in J. Krige and D. Pestre, (eds). *Science in the 20th Century* (London: Harwood, 1997) 495-520.
- 12) \*\*\* “Collaborative couples who strove to change the world: The social policies and personal tensions of the Russells, the Myrdals, and the Mead-Batesons” in *Collaborative Couples in the Sciences*, 1996, op.cit., 267-281.
- 13) \*\*\* “Creative couples in the sciences: An Introduction”, in *Collaborative Couples in the Sciences*, op.cit. 1996, (co-authored with H.M. Pycior and N.G. Slack), 3-35.
- 14) \*\*\* “Women in Modern Scientific Research: A historical Overview” in *World Science Report* Paris: UNESCO, official publications, 1996); also in a French edition, *Rapport Mondial sur la Science*), as “La place de femmes dans la science et la technologie”
- 15) \*\* ““New” trends in the history of molecular biology’, *Historical Studies in the Physical and Biological Sciences*, vol. 26 (1995) 167-196.
- 16) \*\* “Converging failures: Historiography, science policy and social theory in early molecular biology” in T. Horowitz and A. Janis (eds.), *Scientific Failure* (London: Rowland and Littlefield Publishers, Inc. 1994), 141-166.
- 17) \*\*\* “Women in research schools; Approaching an analytical lacuna in the history of chemistry and allied sciences” in S. Mauskopf (ed). *Chemical Sciences in the Modern World* (Philadelphia: University of Pennsylvania Press, 1993) 375-92.

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**PUBLICATIONS: (continuation)**

- 18) \* "From multi-disciplinary collaboration to transnational objectivity: International space as constitutive of molecular biology, 1930-1970", in E. Crawford, T. Shinn & S. Sorlin (eds.), *Denationalizing Science: The International Context of Scientific Practice*, (Dordrecht: Kluwer Academic Publishers, 1993), 153-186; in Spanish translation, *Arbor*, 1997.
- 19) \* "The politics of macromolecules: Molecular biologists, biochemists and rhetoric", *Osiris*, (official publication of the History of Science Society) vol. 7, 1992, 164-191.
- 20) \*\* "A historical ethnography of a scientific anniversary in molecular biology: The first protein X-ray photo (1984, 1934)", *Social Epistemology*, vol. 6, 1992, 323-354; 363-364; 371-372; 380-387 (Special issue including three commentaries & replies).
- 21) \* "Noblesse oblige: Lives of molecular biologists", *ISIS*, 82 (June 1991), 326-343 (essay review of seven Nobelist auto/biographies).
- 22) \* "The philosophical background of Joseph Needham's work in chemical embryology, 1925-1942" in S. Gilbert (ed.) *A conceptual history of modern embryology* (New York, Plenum Press, 1991), 159-180.
- 23) \* "The assessment of interdisciplinary research in the 1930s: The Rockefeller Foundation and physico-chemical morphology", *Minerva*, xxvi (summer 1988) 153-176.
- 24) \* "The Biotheoretical Gathering, transdisciplinary authority and the incipient legitimation of molecular biology in the 1930s: New perspective on the historical sociology of science", *History of Science*, 25 (March 1987), 1-70.
- 25) \*\*\* "Synergy or clash: Disciplinary and marital strategies in the career of the mathematical biologist Dorothy M. Wrinch (1894-1976)" in P.G. Abir-Am & D. Outram (eds.), *Uneasy careers and intimate lives, Women in Science, 1789-1979* (1987 & 1989), op.cit. 338-94.
- 26) \*\* "Introduction" in *Uneasy careers and intimate lives, Women in Science, 1789-1979* (1987 & 1989), op.cit, 1-18. (co-authored with D. Outram)
- 27) \*\* "Themes, genres and orders of legitimation in the consolidation of new disciplines: Deconstructing the historiography of molecular biology", *History of Science*, 23 (March 1985), 73-117.

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**PUBLICATIONS:** (continuation)

- 28) \* "Recasting the disciplinary order in science: A deconstruction of rhetoric on 'biology and physics' at two International Congresses in 1931", *Humanity and Society*, 9 (November 1985), 388-427.
- 29) \*\* "Beyond deterministic sociology and apologetic history: Reassessing the impact of research policy upon new scientific disciplines", *Social Studies of Science*, 14 (May 1984), 252-263 (invited reply to four responses on no. 26)
- 30) \* "The discourse on physical power and biological knowledge in the 1930s: A reappraisal of the Rockefeller Foundation's 'policy' in molecular biology", *Social Studies of Science*, 12 (August 1982) 341-82.
- 31) \*\* "How scientists view their heroes", *Journal of the History of Biology*, 15 (summer 1982), 285-315 (on Jacques Monod's memorial volume)
- 32) \* "Modern Biochemistry", *British Journal for the History of Science*, 12 (1982), 301-305 (essay review of *Origins of Modern Biochemistry, A Retrospect on Proteins*).
- 33) \* "From biochemistry to molecular biology: DNA and the acculturated journey of the critic of science Erwin Chargaff", *History and Philosophy of Life Sciences*, 2 (fall 1980), 3-60.

**BOOK REVIEWS:** (selected list; in alphabetical order of journals)

Most recent: *Inspiring Science: Jim Watson and the Age of DNA*.  
([www.americanscientist.org/reviews/32708](http://www.americanscientist.org/reviews/32708))

- *American Scientist*;
- *British Journal for the History of Science*;
- *Historical Studies in the Physical and Biological Sciences*;
- *History and Philosophy of Life Sciences*;
- *Journal of the History of Biology*;
- *Journal of Interdisciplinary History*;
- *ISIS*; (official journal of the History of Science Society in the US)
- - *Medical History*;
- *The International History Review*;
- *Women's Studies International Forum*.

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### I) **Original contributions in the above publications:**

- Pioneered the study of collective creativity (research schools, theoretical clubs), cross-national comparisons and transdisciplinary objectivity in the history of molecular biology. (Abir-Am 1987a, 1992/3, 1996)
- Introduced the study of cultural memory and commemoration in the history of molecular biology as author, and in the history of science, as editor. (Abir-Am 2000, 1998, 1992, forthcoming)
- Proved the impact of funding in the history of molecular biology, at the comparative level of the research project, in UK, US, and the international arena. (Abir-Am 2002, 2001, 2000, 1988, 1984, 1982b)
- Introduced the comparative (European & American) perspective in the historical study of women in science, as author, editor, and Series Editor. (Abir-Am 1997; 1996a,b,c,d; 1994; 1993; 1989/1987a,b)
- Produced a sustained critique of many publications, whether by historians, scientists, or others. (Abir-Am 2004a,b; 1995; 1991 - an essay review of auto/biographies by seven Nobelists was selected as "newsworthy" by the *Chronicle of Higher Education*)

### II) **Topical Range:**

- Biographical studies to collective memory;
- Models of scientific change to meticulous archival excavation;
- Rhetorical studies to science funding;
- Gender and ethnicity to cross-national comparisons of conceptual innovation, leadership, and science policy in UK, US, and France.

### III) **Methodological Breadth**, including and integrating an unusual range of disciplinary perspectives: (selected items)

- Historical & Historiographic; (Abir-Am, 2002, 2001, 1993, 1987a,b)
- Philosophical; (Abir-Am 1993, 1985, 1991a)
- Ethnographic; (Abir-Am 1992; 1987)
- Rhetorical; (Abir-Am 2004, 1992, 1985)
- Sociological; (Abir-Am 2000, 1993, 1987a)
- Policy analysis. (Abir-Am 2002, 2001a,b, 1992, 1988, 1984)

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Appendix: New Course

Dr. Pnina G. Abir-Am, [pnina.abiram@scientificlegacies.org](mailto:pnina.abiram@scientificlegacies.org), <http://pgabiram.scientificlegacies.org>

DNA at 50: Multi-disciplinary Perspectives on the History & Memory of a Major Discovery

WEEK 1: Introduction.

Between History and Memory. Inter/disciplinary Epistemologies and Moral Genealogies in the Quest for The Secret of Life.

WEEK 2-3) The scientist as maker of and witness to a discovery.

Memories, counter-memories, post- memories of winners; (Watson, Crick, Bragg, Wilkins) “losers”; (Franklin, Chargaff, Randall, Pauling) bystanders; (Perutz, Kendrew, Delbruck, Gosling) significant others.

WEEK 4-5) The historian as archival analyst and synthetic creator of new interpretations.

Range of archival resources, (manuscripts, correspondence) oral histories, and the problem of historical evidence in a world of high stake interests.

WEEK 6-7) The ethnographer as cultural observer of commemorative practices.

Comparing the 21<sup>st</sup>, 40<sup>th</sup>, and 50<sup>th</sup> anniversaries of DNA longitudinally; spatially, in Europe and America; topically, with the 50<sup>th</sup> anniversary of the first protein X-ray photo. (1984, 1934)

WEEK 8) The philosopher as analyst of paradoxes, rhetoric, and moral dilemmas.

Context of discovery vs. context of justification; the changing roles of theory, models, and experiment in the DNA story; the role of rhetoric; DNA related ethics of data sharing.

WEEK 9) The psychologist as analyst of creative and/or obsessive personalities.

Scientific discovery amidst domineering bosses, lone wolves, collaborative cinderellas, repressed friends, spying colleagues, among other enigmatic gossipers and inflated egos.

WEEK 10-11) The biographer as literary critic.

Post-modern emphases on gender, race, and class. Comparing the literary figures of Rosalind Franklin and Jim Watson.

WEEK 12) The science journalist, film maker, and playwright as investigative dramatists.

A critique of *DNA: The Secret of Life*, (BBC, 2003); *Life Story*; (BBC, 1987) *The Eighth Day of Creation*; (Judson, 1979) Two plays from CUNY's Theatre & Science Program.

WEEK 13) The artist as aestheticist of biological futurism.

Virtual / actual visits to exhibitions on DNA related paintings, drawings, and sculptures in London, NYC, Brno, etc.