

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for form page 2.

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NAME Sara L. (Sally) Tobin, Ph.D., M.S.W.	POSITION TITLE Senior Research Scholar Lecturer
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EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Washington, Seattle	B.S.	1968	Zoology
University of Washington, Seattle	Ph.D.	1977	Developmental Biology
University of California, Berkeley	Post-doc	1978-82	Genetics
University of California, San Francisco	Post-doc	1978-81	Biochemistry
University of Oklahoma, Norman	M.S.W.	1993	Social Work (interpersonal)

A. Position and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

- 1978-82 Postdoctoral Fellow with James W. Fristrom, Department of Genetics, UC Berkeley; also with Brian J. McCarthy, Department of Biochemistry and Biophysics, UCSF
- 1981-82 Assistant Research Geneticist, Department of Genetics, University of California, Berkeley
- 1983-89 Assistant Professor, Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma
- 1989-96 Associate Professor, Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma (tenure 1989)
- 1993-95 Associate Professor, Visiting (National Science Foundation Visiting Professorship for Women), University of California, Berkeley
- 1996-97 Senior Fellow, Program for Genomics, Ethics, and Society, Stanford Center for Biomedical Ethics, School of Medicine
- 1998-present Senior Research Scholar, Program for Genomics, Ethics, and Society, Stanford Center for Biomedical Ethics, School of Medicine; Lecturer in Pediatrics, 2005-present.
- 1999-00 Consultant, National Institute of Nursing Research, design of Summer Genetics Institute
- 2002-03, 04-present Ethicist, General Clinical Research Center, Stanford University
- 2000-present President, Twisted Ladder Media, Inc.
- 2002-present Member (Co-Chair 2005) Institutional Review Board, Northern California Cancer Center

Selected Honors and Fellowships

Postdoctoral Fellowships: Muscular Dystrophy Association, Inc., 1978-1979; National Institutes of Health, 1979-1981; American Cancer Society, California Division, 1981-1982.

Mid-America State Universities Association Honor Lecturer, 1986-1987.

National Science Foundation Visiting Professorship for Women, 1993-1995.

Ad Hoc Study Section Member, NIH Small Business Innovation Research, 1994, 1995, 1999, 2001.

Review Panelist, NSF ADVANCE Program, Institutional Transformation, 2001; STEM Program, 2002-04.

Committee of Visitors, Plant Genome Program, NSF Division of Biological Infrastructure, 2004.

B1. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

Tobin SL, Zulauf E, Sanchez F, Craig EA & McCarthy BJ (1980). Multiple actin-related sequences in the genome of *Drosophila melanogaster*. *Cell* **19**, 121-131.

Zulauf E, Sanchez F, Tobin SL, Rdest U & McCarthy BJ (1981). Developmental expression of a *Drosophila melanogaster* actin gene encoding actin I. *Nature* **292**, 556-558.

Sanchez F, Tobin SL, Rdest U, Zulauf E & McCarthy BJ (1983). Two *Drosophila* actin genes in detail: Gene structure, protein structure, and transcription during development. *J. Mol. Biol.* **163**, 533-551.

Yamanaka M, Saugstad J, Hanson-Painton O, McCarthy BJ & Tobin SL (1987). Structure and expression of the *Drosophila calmodulin* gene. *Nuc. Acids Res.* **15**, 3335-3348.

Vigoreaux JO & Tobin SL (1987). Stage-specific selection of transcriptional initiation sites from the 5C actin gene of *Drosophila melanogaster*. *Genes and Development* **1**, 1161-1171.

- Burn TC, Vigoreaux JO & Tobin SL (1989). Alternative 5C actin transcripts are localized in different patterns during *Drosophila* embryogenesis. *Dev. Biol.* 131, 345-355.
- Courchesne-Smith CL & Tobin SL (1989). Tissue-specific expression of the 79B actin gene during *Drosophila* development. *Dev. Biol.* 133, 313-321.
- Wright-Sandor LG, Reichlin M & Tobin SL (1989). Alteration by heat shock and immunological characterization of *Drosophila* small nuclear ribonucleoproteins. *J. Cell Biol.* 108, 2007-2016.
- Tobin SL, Cook PJ & Burn TC (1990). Transcripts of individual *Drosophila* actin genes are differentially distributed during embryogenesis. *Dev. Genet.* 11, 15-26.
- Matsumoto H, Kurien B, Takagi Y, Kahn E, Kinumi T, Komori N, Yamada T, Hayashi F, Isono K, Pak WL & Tobin SL (1994). Phosrestin I undergoes the earliest light-induced phosphorylation by a calcium/calmodulin-dependent protein kinase in *Drosophila* photoreceptors. *Neuron* 12, 997-1010.
- Kinumi T, Jackson KW, Ohashi M, Tobin SL & Matsumoto H (1997). Determination of the phosphorylation site and des-methionyl N-terminus of *Drosophila* phosrestin I in vivo by two-dimensional gel electrophoresis/in-gel digestion/LC-MS. *Eur. Mass Spect.* 3, 367-378.
- Martins CRF, Johnson JA, Lawrence DM, Choi T-J, Pisi A-M, Tobin SL, Lapidus D, Wagner JDO, Ruzin S, McDonald K & Jackson AO (1998). Sonchus yellow net rhabdovirus nuclear viroplasms contain polymerase-associated proteins. *J. Virol.* 72, 5669-5679.
- Kahn ES, Kinumi T, Tobin SL & Matsumoto H (1998). Phosrestide-1₂, a peptide derived from the *Drosophila* photoreceptor protein phosrestin I, is a potent substrate for Ca²⁺/calmodulin-dependent protein kinase II. *Comp. Biochem. Phys., Part B*, 119, 739-746.
- Fox PJ, Kelly SE & Tobin SL (1999). Defining dementia: social and historical background of Alzheimer disease. *Genetic Testing* 3, 13-19.
- Tobin SL, Chun N, Powell TM & McConnell LM (1999). The genetics of Alzheimer disease and the application of molecular tests. *Genetic Testing* 3, 37-45.
- Nishizawa Y, Komori N, Usukura J, Jackson KW, Tobin SL & Matsumoto H (1999). Initiation of ocular proteomics for cataloging bovine retinal proteins. Microanalytical techniques permit the identification of proteins derived from a novel photoreceptor preparation. *Exp. Eye Res.* 69, 195-212.

B2. Other publications subjected to review and/or evaluation.

Multimedia Courseware

- Tobin, S.L., Boughton, A., and Krueger, C. (2000). Evaluation Prototype: "The New Cancer Genetics: Concepts, Applications, and Implications of Tests for Inherited Cancer Susceptibility." (NIH:NCI)
- Tobin, S.L., and Boughton, A. (2001). "The New Genetics: Courseware for Physicians. Molecular Concepts, Applications, and Ramifications." Published by Twisted Ladder Media. (US DOE: OBER)
- Tobin, S.L. and Boughton, A. (2001). "The New Genetics: Medicine and the Human Genome. Molecular Concepts, Applications, and Ramifications." Published by Twisted Ladder Media. (US DOE: OBER)
- Tobin, S.L. and Boughton, A. (2003). "The New Genetics: Inherited Cancer Risk." Published by Twisted Ladder Media. (State of Hawaii Department of Public Health).
- Tobin, S.L. and Boughton, A. (in production, 2006). Updated edition of "The New Genetics: Medicine and the Human Genome" in browser-based format. To be published by Twisted Ladder Media.

Web Sites

- Tobin, S.L., Boughton, A., and Krueger, C. (2000). Twenty Inherited Cancers. About Genetics, Family History, and Genetic Testing: Hereditary Breast and Ovarian Cancer (Evaluation Version).
- Tobin, S.L., Jacobs, C., Ford, J., Mills M., Education Task Force (2003). Program for Applied Cancer Genetics, Continuing Medical Education for Physicians: HNPCC. <http://stanfordcancergenetics.stanford.edu/>
- Editorial, Book Review, Columns, and Selected Book Chapter
- Koenig, B., and Tobin, S.L. (1997). Perspectives on Cloning: Should Cloning be Banned? Think About What We Know. *San Francisco Chronicle*, Friday, March 21, 1997; page A29.
- Tobin, S.L. (1998). Considering individuals in the new genetic era. Review of: *Genetics Society and Clinical Practice*, by P. Harper and A.J. Clarke, Bios Scientific Publishers (1997). *Trends in Genetics* 14, 377.
- Tobin, S.L. (1998). Successful Navigation through the Tenure Process: Ten Recommendations. *Am. Soc. Cell Biology Newsletter* 21, 16-18.
- Tobin, S.L. (2000). Dealing with Unstable Colleagues. *Am. Soc. Cell Biology Newsletter* 23, 24-26.
- Tobin, S.L. with illustrations by Boughton, A. (1995). *Medical Genetics*. In *Oklahoma Notes, Biochemistry (Third Edition)*. (Eds. Briggs, T. and Chandler, A.M.) Springer-Verlag, New York.

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and responsibilities of principal investigator identified above.

1. Title: The New Genetics: Interactive Courseware for Physicians

Funding source: The Robert Wood Johnson Foundation

Dates: 5/1/00-4/30/04

Role: Principal Investigator

Description: This project covers enhancements to the courseware for physicians funded by the DOE award, including additional animations, an expanded testing module, and a professional evaluation.

2. Title: Program for Applied Cancer Genetics

Funding source: State of California Department of Health Services, Cancer Research Section, California Cancer Research Program (James M. Ford, PI)

Dates: 10/1/2000-6/30/2004

Role: Education Director

Description: This grant establishes a dedicated program for clinical cancer genetics and delivers comprehensive cancer genetics services to high-risk patients and families. The educational component is designed to develop and field-test Internet-based educational tools for primary care physicians at outreach sites and to apply advances in cancer genetics research.

3. Title: Education in Genetic Ethics (EDGE)

Funding Source: National Institutes of Health (NHGRI) (Mark Rothstein, PI)

Dates: 5/3/02-4/30/06

Role: PI of Stanford University subcontract

Description: This project involves a needs assessment, followed by creation and evaluation of a curriculum that examines the special ethical issues that arise during the course of genetic research projects involving human subjects. The University of Louisville is the lead institution with three subcontracting institutions.

4. Title: Family Medicine Clerkship Training Program (Samuel LeBaron, PI)

Funding Source: National Institutes of Health

Dates: 7/1/03-6/30/06

Role: Genetics Curriculum Development

Description: This training grant supports the Stanford University training program in family medicine and primary care for medical students. Tobin is creating, teaching, and evaluating a unit on genetics designed for future primary care physicians.

5. Title: Center for Integrating Ethics & Genetic Research (Mildred Cho, PI)

Funding Source: National Institutes of Health

Dates: 9/1/04-8/31/09

Roles: Co-leader of Training and Education Team; member Benchside Consultation Team

Description: This Center of Excellence grant supports a variety of activities involving proactive identification and integration of ethical, legal, and social considerations and emerging genetic research.

6. Title: General Clinical Research Center (Branimir Sikic, PI)

Funding Source: National Institutes of Health

Dates: 4/1/02-11/30/06

Role: Ethicist; Tobin reviews all clinical trial protocols for ethical issues and patient safety issues.

Description: This grant supports the activities of the General Clinical Research Center at Stanford Hospital.