Stanford



Sara L. (Sally) Tobin

Sr Research Scholar, Pediatrics - Center for Biomedical Ethics

NIH Biosketch available Online

Bio

ACADEMIC APPOINTMENTS

• Sr Research Scholar, Pediatrics - Center for Biomedical Ethics

ADMINISTRATIVE APPOINTMENTS

- Research Ethicist, Clinical and Translational Education and Research, (2003- present)
- Principal, Twisted Ladder Media, Inc., (2000- present)

HONORS AND AWARDS

- Postdoctoral Fellow, Muscular Dystrophy Association (1978-1979)
- Postdoctoral Fellow, National Institutes of Health (1979-1981)
- Senior Postdoctoral Fellow, American Cancer Society, California Division (1981-1982)
- Visiting Professorship for Women Awardee, National Science Foundation (1993-1995)
- Study Section Member, Ad Hoc, National Institutes of Health: SBIR Program (1994-2001)
- Review Panelist, National Science Foundation: Advance Program, Institutional Transformation, STEM Program (2001-2004)
- Member, Committee of Visitors, National Science Foundation: Plant Genome Program (2004)

PROFESSIONAL EDUCATION

- M.S.W., University of Oklahoma , Social Work (1993)
- Ph.D., University of Washington, Developmental Biology/Genetics (1977)
- B.S., University of Washington , Zoology (Honors) (1968)

COMMUNITY AND INTERNATIONAL WORK

• Institutional Review Board

LINKS

• Biomedical Ethics Faculty: http://scbe.stanford.edu/people/resumes/tobin.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Tobin is a Senior Research Scholar at the Stanford Center for Biomedical Ethics. She obtained her Ph.D. in Developmental Biology from the University of Washington and did postdoctoral research in Genetics at the University of California, Berkeley and in Biochemistry at the University of California, San Francisco. She became a

faculty member at the University of Oklahoma College of Medicine in 1983 and moved to Stanford University in 1996. Her research contributions have been published in prestigious journals such as Cell, Nature, Genes & Development, Neuron, and Journal of Cell Biology.

Projects

With her collaborator, graphic designer Ann Boughton, Tobin has completed the production of three educational multimedia CD-ROM discs about the genetic revolution in medical care sparked by the rapid advances in our knowledge about the human genome. An on-line version derived and updated from these CDs is pending release through Twisted Ladder Media, and is entitled: "The New Genetics: Medicine and the Human Genome. Molecular Concepts, Applications, and Ramifications." In addition, Tobin and Boughton have collaborated on educational websites on inherited risk of breast cancer and on hereditary colorectal cancer with the Stanford Cancer Genetics Clinic.

Tobin's current major research interests include an educational project funded by the National Science Foundation to create and evaluate innovative modules for undergraduates entitled, "The New Genetics: Electronic Tools for Educational Innovation." The modules are presented in on-line form as an electronic course and are accompanied by workbook exercises and problem sets. The content includes principles of genetics, molecular genetic technologies, applications in medicine, environmental biology, agriculture, and society, as well as implications. In addition, she is collaborating on two projects that are exploring the ramifications of using genetic information about addiction risk in the judicial system.

Tobin is a member of the Benchside Consultation Team for the Center for the Integration of Research on Genetics and Ethics, and she evaluates clinical protocols for ethical issues for the Clinical Translational Research Program.

Publications

PUBLICATIONS

- Customers or research participants?: Guidance for research practices in commercialization of personal genomics GENETICS IN MEDICINE
 Tobin, S. L., Cho, M. K., Lee, S. S., Magnus, D. C., Allyse, M., Ormond, K. E., Garrison, N. A.
 2012; 14 (10): 833-835
- Informational risk, institutional review, and autonomy in the proposed changes to the common rule. IRB
 Allyse, M., Karkazis, K., Lee, S. S., Tobin, S. L., Greely, H. T., Cho, M. K., Magnus, D.
 2012: 34 (3): 17-19
- Strangers at the Benchside: Research ethics consultation AMERICAN JOURNAL OF BIOETHICS
 Cho, M. K., Tobin, S. L., Greely, H. T., McCormick, J., Boyce, A., Magnus, D.
 2008; 8 (3): 4-13
- Research Ethics Consultation: The Stanford Experience IRB: Ethics and Human Research
 Cho MK, Tobin SL, Greely HT, McCormick J, Boyce A, Magnus D
 2008; 30 (6)
- Initiating ocular proteomics for cataloging bovine retinal proteins: Microanalytical techniques permit the identification of proteins derived from a novel photoreceptor preparation EXPERIMENTAL EYE RESEARCH

Nishizawa, Y., Komori, N., Usukura, J., Jackson, K. W., Tobin, S. L., Matsumoto, H. 1999; 69 (2): 195-212

- Defining dementia: Social and historical background of Alzheimer disease 49th Annual Meeting of the American-Society-of-Human-Genetics
 Fox, P. J., Kelly, S. E., Tobin, S. L.
 MARY ANN LIEBERT INC.1999: 13–19
- The genetics of Alzheimer disease and the application of molecular tests 49th Annual Meeting of the American-Society-of-Human-Genetics Tobin, S. L., Chun, N., Powell, T. M., McConnell, L. M.

MARY ANN LIEBERT INC.1999: 37-45

Sonchus yellow net rhabdovirus nuclear viroplasms contain polymerase-associated proteins JOURNAL OF VIROLOGY

Martins, C. R., Johnson, J. A., Lawrence, D. M., Choi, T. J., Pisi, A. M., Tobin, S. L., Lapidus, D., Wagner, J. D., Ruzin, S., McDonald, K., Jackson, A. O. 1998; 72 (7): 5669-5679

• Phosrestide-1, a peptide derived from the Drosophila photoreceptor protein phosrestin I, is a potent substrate for Ca2+/calmodulin-dependent protein kinase II from rat brain COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY

Kahn, E. S., Kinumi, T., Tobin, S. L., Matsumoto, H.

1998; 119 (4): 739-746

 Phosrestin I undergoes the earliest light-induced phosphorylation by a calcium/calmodulin-dependent protein kinase in Drosophila photoreceptors Neuron Matsumoto H, Kurien B, Takagi Y, Kahn E, Kinumi T, Komori N, Yamada T, Hayashi F, Isono K, Pak WL, Tobin SL 1994; 12: 997

• DEVELOPMENTAL EXPRESSION OF THE DROSOPHILA-MELANOGASTER CALMODULIN GENE INTERNATIONAL JOURNAL OF DEVELOPMENTAL BIOLOGY

HANSONPAINTON, O., Randolph, V., Saugstad, J. A., Oh, S. K., Tobin, S. L.

1992; 36 (3): 343-351

 TRANSCRIPTS OF INDIVIDUAL DROSOPHILA ACTIN GENES ARE DIFFERENTIALLY DISTRIBUTED DURING EMBRYOGENESIS DEVELOPMENTAL GENETICS

Tobin, S. L., Cook, P. J., Burn, T. C.

1990; 11 (1): 15-26

• ALTERATION BY HEAT-SHOCK AND IMMUNOLOGICAL CHARACTERIZATION OF DROSOPHILA SMALL NUCLEAR RIBONUCLEOPROTEINS JOURNAL OF CELL BIOLOGY

WRIGHTSANDOR, L. G., Reichlin, M., Tobin, S. L.

1989: 108 (6): 2007-2016

• TISSUE-SPECIFIC EXPRESSION OF THE 79B ACTIN GENE DURING DROSOPHILA DEVELOPMENT DEVELOPMENTAL BIOLOGY

COURCHESNESMITH, C. L., Tobin, S. L.

1989: 133 (2): 313-321

• ALTERNATIVE 5C-ACTIN TRANSCRIPTS ARE LOCALIZED IN DIFFERENT PATTERNS DURING DROSOPHILA EMBRYOGENESIS DEVELOPMENTAL BIOLOGY

Burn, T. C., Vigoreaux, J. O., Tobin, S. L.

1989; 131 (2): 345-355

REGULATION OF LARVAL CUTICLE PROTEIN GENE-EXPRESSION IN DROSOPHILA-MELANOGASTER DEVELOPMENTAL GENETICS

Kimbrell, D. A., Tojo, S. J., Alexander, S., Brown, E. E., Tobin, S. L., Fristrom, J. W.

1989; 10 (3): 198-209

• STAGE-SPECIFIC SELECTION OF ALTERNATIVE TRANSCRIPTIONAL INITIATION SITES FROM THE 5C ACTIN GENE OF DROSOPHILA-**MELANOGASTER** GENES & DEVELOPMENT

Vigoreaux, J. O., Tobin, S. L.

1987; 1 (10): 1161-1171

• STRUCTURE AND EXPRESSION OF THE DROSOPHILA CALMODULIN GENE NUCLEIC ACIDS RESEARCH

Yamanaka, M. K., Saugstad, J. A., HANSONPAINTON, O., McCarthy, B. J., Tobin, S. L.

1987; 15 (8): 3335-3348

• In vitro transcription of Drosophila actin and 70,000-dalton heat shock protein genes. journal of biological chemistry

Nierman, W. C., Miller, A. E., Tobin, S. L., Ingolia, T. D., Sanchez, F., RDEST, U., ZULAUF, E., McCarthy, B. J.

1983; 258 (20): 12618-12623

• 2 DROSOPHILA ACTIN GENES IN DETAIL - GENE STRUCTURE, PROTEIN-STRUCTURE AND TRANSCRIPTION DURING **DEVELOPMENT** JOURNAL OF MOLECULAR BIOLOGY

Sanchez, F., Tobin, S. L., RDEST, U., ZULAUF, E., McCarthy, B. J.

1983; 163 (4): 533-551

• INVITRO TRANSCRIPTION OF DROSOPHILA ACTIN AND 70,000-DALTON HEAT-SHOCK PROTEIN GENES JOURNAL OF BIOLOGICAL CHEMISTRY

Nierman, W. C., Miller, A. E., Tobin, S. L., Ingolia, T. D., Sanchez, F., RDEST, U., ZULAUF, E., McCarthy, B. J. 1983; 258 (20): 2618-2623

• DEVELOPMENTAL EXPRESSION OF A DROSOPHILA ACTIN GENE ENCODING ACTIN-I NATURE

ZULAUF, E., Sanchez, F., Tobin, S. L., RDEST, U., McCarthy, B. J. 1981; 292 (5823): 556-558

\bullet MULTIPLE ACTIN-RELATED SEQUENCES IN THE DROSOPHILA-MELANOGASTER GENOME CELL

Tobin, S. L., ZULAUF, E., Sanchez, F., Craig, E. A., McCarthy, B. J. 1980; 19 (1): 121-131