

Curriculum Vitae

MICHAEL JOEL STERN, Ph.D.

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Address:

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69 Williamsburg Road
Evanston, IL
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Positions Held:

Northeastern Illinois University
Professor of Biology, 2013- present
Dean, College of Graduate Studies and Research, 2013- 2021
University of Central Florida,
Associate Dean, College of Graduate Studies, 2007- 2013
Professor of Biology, 2007- 2013
Yale University School of Medicine, Department of Genetics
Associate Professor of Genetics with tenure, 2000-2007
Associate Professor of Genetics, 1997-2000
Assistant Professor of Genetics, 1991-1997
MIT, Department of Biology, Dr. H. Robert Horvitz, advisor
Research Associate of the Howard Hughes Medical Institute, 1989-1991
Post-Doctoral Fellow, 1986-1989

Education:

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| Ph.D. Biochemistry, 1986 | B.S. Molecular Biophysics and Biochemistry, 1981 |
| Department of Biochemistry | <i>summa cum laude</i> |
| University of California at Berkeley | Yale College |
| Berkeley, CA 94720 | New Haven, CT 06520 |

Research Trainees (1991 - present):

Postdoctoral Fellows: 4
Ph.D. Students: 10
M.D./Ph.D. Students: 2
B.S./M.S. Students: 1
M.S. Students: 1 at NEIU
Undergraduate Students: 5 at Yale; 5 at NEIU (1 Honors Thesis)
BioSTEP Minority Undergraduate: 1
High School Students: 3
SMART team, Faculty Mentor 2010-2011 (<http://cbm.msoe.edu/stupro/smart/index.html>)

Honors and Fellowships:

Meyerhoff Visiting Professorship, Weizmann Institute, ISRAEL, 1999-2000.
American Cancer Society Post-Doctoral Fellowship, 1986-1989.
Distinguished Teaching Assistant, University of California at Berkeley, 1983.
University of California at Berkeley Fellowship, 1981, 1984.
National Science Foundation Predoctoral Fellowship, 1981-1983.
Calhoun College Master's Cup for Highest Scholastic Achievement, Yale University, 1981.

Distinction in Molecular Biophysics and Biochemistry, Yale University, 1981.
 Associate Member *Sigma Xi*, Yale University, 1981.
Phi Beta Kappa, Yale University, 1980.
 Dreyfus Foundation Grant for Research in Chemistry, Yale University, 1978.

Teaching:

NEIU Classes:

Biochemistry BIO/CHEM 362/462G: 2022 – present
 Cell Biology, lab BIO 301: 2026

NEIU Classes (guest lecturer):

Analysis of Development BIO 424: 2013, 2015
 Developmental Biology BIO 367: 2014, 2017, 2019 (incorporation of research project into lab class)
 Molecular Biology BIO-340: 2016

UCF Classes (co-teacher):

Intro Genetics PCB 3063, 2011-2012
 Intro Honors Genetics PCB 3063H, 2010 - 2012

Yale University Classes:

Mechanisms of Development, 1991 - 2007
 Basic Concepts of Genetic Analysis/ Advanced Eukaryotic Genetics, 1992, 1996, 1998 - 2006
 Principles of Molecular Cellular and Developmental Biology, 2006
 Medical Genetics, 2001 – 2005
 Guest Lecturer: Strategies in Cellular and Molecular Biology (1993); Principles of Neuroscience (1994); Advanced Genetics Seminar (1995); Interfaces in Cell Biology (1995-1996); Medical Fellows Course (1996, 1998); Genetics of Signaling (1997)

Weizmann Institute of Science, Rehovot, ISRAEL

Guest lecturer (1999) Developmental Biology

Student Dissertation Committees: 25 Ph.D. candidates

Student Thesis Committees:

NEIU: 4 M.S. candidates

UCF: 2 M.S. candidates

Qualifying Examination Committees: >20 Ph.D. candidates

Administrative Duties:

Northeastern Illinois University

Biology Graduate Program Advisor, 2022-present
 Dean, College of Graduate Studies and Research, 2013 – 2021
 Graduate College Advisory Committee, Dean, *ex officio*, 2013 – 2021
 Graduate policy development
 Graduate curriculum review
 Graduate petitions and appeals
 New graduate program review
 Research and Creative Activities Advisory Group, Chair, 2014 – 2018
 IRB administrative oversight, 2016 – 2021
 Administrative oversight, Office of Research and Sponsored Projects
 University liaison to ChicagoCHEC (<https://chicagochech.org/>); co-Chair, Internal Advisory Committee (NCI U54-supported tri-institutional collaborative “center” to reduce cancer health disparities) 2015-2021
 Science Immersion Program (Northwestern University sponsors slots for NEIU master’s students), NEIU founder and initial liaison
 McNair Program, supervisor of Director, 2013 – 2021
 Provost’s Deans Council, member, 2013 – 2021
 Provost’s Council, member, 2013 – 2021
 Enrollment Management Council, 2014 – 2017
 University Advisory Council, Dean’s representative, 2018 - 2020

El Centro Task Force, 2013 – 2015
 CCICS Task Force, 2018
 Open Access to Research Articles Act, NEIU Task Force, co-Chair, 2014
 Search Committee Chair, Honors Program Director, Spring 2015
 Graduate Tuition Scholarship oversight, 2013 – 2021
 Graduate Assistanship appointment and support oversight, 2013 – 2021
 NEIU Budget Task Force, 2017 – 2019
 President's Transition Team, 2019

University of Central Florida

Associate Dean of Graduate Studies, 2007 – 2013
 Graduate Financial Support, 2007 – 2013
 Tuition waiver allocation and supervision
 Graduate Enrollment Management
 Graduate Fellowships supervision
 Fellowship restructuring, Fall 2010
 Doctoral Fellowships Committee, chair, 2007 - 2013
 Diversity Fellowships Committee, chair, 2007 – 2013
 McKnight Doctoral Fellowship Selection Review Committee, 2008 - 2013
 NSF Graduate Research Fellowship Program, PI for UCF awards, 2010 - 2013
 Graduate Travel Award supervision
 Development of integrated financial support web-based information and processing systems
 International Agreements
 Supervisory administration of university-wide interdisciplinary graduate programs
 Interdisciplinary graduate program budgets, 2007 - 2013
 Modeling and Simulation graduate programs, 2011 - 2013
 Graduate Council, Policy Committee, Graduate College liaison, 2008 - 2013
 Major new and revised policies:
 Transfer credit policy
 Graduate Faculty policy
 Academic Misconduct Review Process
 Academic Integrity Training policy
 Course category definitions
 Graduate Council, Appeals Committee, Graduate College liaison, 2008 - 2013
 Graduate Council, Program Review Committee, Graduate College liaison, 2011 - 2013
 Major duties:
 Appointment and reappointment of Graduate Faculty
 7-year review of graduate programs
 New program development
 Graduate student and Graduate Faculty awards
 UCF Strategic Planning Council, member, 2011-2012
 University Enrollment Workgroup, 2007 - 2013
 McNair Fellowships (Undergraduate)
 Selection Committee and Advisory Board, member, 2008 - 2013
 RAMP Fellowships (Undergraduate)
 Selection Committee and Advisory Board, member, 2008 - 2013
 STEMREC committee, member, 2011 (STEM Research and Education Committee)
 NanoFlorida Symposium Advisory Board, member, 2008-2010
 Interdisciplinary Studies Director Search Committee, member, Spring 2008
 New Faculty Perceptions Workshops, discussion leader, 2008 - 2013
 Judaic Studies Academic Committee, member, 2008 - 2013

Yale University

Director of Graduate Studies, Department of Genetics, 2001 - 2007
 Co-Director, MCGD Track of the BBS, 2002 – 2004
 (BBS, Program in the Biological and Biomedical Sciences [“umbrella” doctoral program])

(MCGD, Molecular Cell and Developmental Biology Track)
 Co-Director, Genetics Training Grant, 2000 - 2003
 Graduate Admissions Committee, Genetics and Development Track, BBS
 Member 1994 - 1996
 Director 1997 - 1999, 2001
 Executive Committee, BBS, 1997 - 2007
 Genetics Graduate Program Steering Committee
 Member 1993 - 2000
 Chair 2001 - 2007
 Minority Recruiting Committee, 1993 - 1994
 Genetics Search Committee, 1994
 Director, Yale Worm Community plate-pouring facility, 1991 - 2007

Peer Review:

Faculty of 1000, 2001 - 2007
 Manuscript review: Cell, Genetics, Development, Trends in Genetics, Genes & Development, Journal of Cell Biology, Molecular and Cellular Biology, BioEssays, Nucleic Acids Research
 Grant review:
 ChicagoCHEC:
 Planning and Evaluation Core, NEIU co-Lead, 2016 – 2018
 Internal Advisory Committee, 2018 - 2021
 UCF Institutional IGERT evaluation committee, 2011 - 2013
 Yale Scholars Committee, 2005 - 2006
 External Advisory Committee, 2007: NYU Computational Biology Doctoral Program (IGERT)
 NCI program project grant, review panel member, 2004
 Israel Science Foundation, ad hoc member 2003 - 2004
 United States - Israel Binational Science Foundation 1997, 1999
 Developmental Study Section, ACS, ad hoc member 1999
 PSC-CUNY Research Award Program 1998
 NYU Whitehead Fellowship Program 1998
 NIH Genetics Study Section, NIH, ad hoc member 1996
 University Excellence Awards (for NEIU faculty), 2018 - 2021

Publications (full list below):

Original articles: 33
 Reviews, Chapters, Books: 9
 Speaking Invitations: 58

Active Research Support

none

Completed Research Support

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| NIH-NIGMS R15 AREA, GM122001 Signaling Specificity Mediated by the <i>C. elegans</i> FGF Receptor Tyrosine Kinase | 2/1/17 – 8/31/22 Role: Co-investigator 10% effort \$345,043, 3 years, 2 year NCE |
| NIH 1 R24 GM066969 “GLUE Grants” for Integrative and Collaborative Approaches to Research Formal Modeling, Simulation, and Analysis of <i>C. elegans</i> Program Director: Hubbard, E. Jane Albert | 6/1/03 – 5/31/07 Role: Co-PI 20% effort \$51,296 direct/yr |
| NIH (continuous funding since 1994) R01 GM050504 | 12/1/03 – 11/30/08 Role: PI 50% effort |

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|---|---|------------|
| FGF Receptor Signaling Specificity in <i>C. elegans</i> | \$212,500 direct/yr | |
| American Cancer Society RPG-98-070-01-DDC Analysis of an FGF Signaling Pathway in <i>C. elegans</i> | 1/1/98 - 12/31/00 Role: PI \$82,500 direct/yr | 30% effort |
| American Cancer Society RPG-95-028-03-DB Analysis of an FGF Signaling Pathway in <i>C. elegans</i> | 1/1/95 - 12/31/97 Role: PI \$72,000 direct/yr | 20% effort |
| The Patrick and Catherine Weldon Donaghue Medical Research Foundation New Investigator Award Signal Transduction in <i>C. elegans</i> | 7/1/93 - 6/30/96 Role: PI \$50,000 direct/yr | 15% effort |
| Swibelius Cancer Research Award Yale University School of Medicine Cancer Center Signal specificity mediated by receptor tyrosine kinases | 7/1/93 - 6/30/94 Role: PI \$20,000 direct/yr | 10% effort |

Research Overview:

My research has focused on using biological and computational approaches to understand various aspects of developmental biology, the study of how multicellular organisms develop from single, fertilized eggs, producing the right cells in the right places at the right time. My interests have emphasized elucidating the molecular mechanisms that: (1) underlie how cells communicate to organize functional biological sub-systems; (2) carry out specific cellular functions; and (3) determine specific cell identities. I have focused on understanding the molecular mechanisms that guide migrating cells in developing organisms and that are involved in other processes regulated by a set of molecules responsible for signaling between cells (fibroblast growth factors (FGFs) and their receptors) and the intracellular signaling pathways they trigger (RAS/MAPK signaling pathways). I have also collaborated with computer scientists to develop computer-aided modeling methodologies to represent biological systems, with the goal of enhancing our understanding of these systems via the formalization and integration of the increasingly complex array of available biological data.

My approach to these areas of inquiry has been to use the nematode *Caenorhabditis elegans* as a model system for biological discovery. This organism can be used as a powerful tool to identify and analyze the functions of the molecular components underlying important biological processes. The high degree of conservation of structure and function during metazoan evolution makes our findings in this organism applicable to our understanding of biology in general and human biology and disease in particular. This connection, although broadly accepted for over three decades, was underscored by the award of the 2002 and 2006 Nobel prizes in physiology and medicine to the originators of the work on this organism and for the discovery of RNA interference in *C. elegans*, respectively.

Over the years, work in my laboratory has established sex myoblast migration and FGF signaling in *C. elegans* as paradigms for understanding cell migration guidance and FGF/RAS-MAPK signaling pathways. Using these systems, we have discovered and established the functions of other important signaling components that play key roles in human development and pathogenesis. For example, the SEM-5/GRB2 adaptor protein links cell surface receptors of the receptor tyrosine kinase sub-family to the oncogenic RAS-MAPK signaling pathway. In addition, by helping to establish a functional role for PTEN, we aided the elucidation of the mechanism of action of this important tumor suppressor gene.

Bibliography:**Original Articles:**

Rodriguez Torres CS, Wicker NB, Puccini de Castro V, Stefinko M, Bennett DC, Bernhardt B, Garcia Montes de Oca M, Jallow S, Flitcroft K, Palalay JS, Payán Parra OA, Stern YE, Koelle MR, Voisine C, Woods IG, Lo TW, Stern MJ, de la Cova CC (2024). "The *Caenorhabditis elegans* protein SOC-3 permits an alternative mode of signal transduction by the EGL-15 FGF receptor." *Dev Biol.* **516**:183-195.
doi: 10.1016/j.ydbio.2024.08.014. Epub 2024 Aug 21. PMID: 39173814; PMCID: PMC11488645.

Gürkaynak B, Fonseca DR, Suarez I, Stern MJ, Lo TW (2024). "Investigation of Conserved Amino Acids in the EGL-15 5A Domain Required for Sex Myoblast Migration in *C. elegans*." *MicroPubl Biol.* 10.17912/micropub.biology.001374.
October 15, 2024
doi: 10.17912/micropub.biology.001374. PMID: 39473453; PMCID: PMC11519726.
<https://pubmed.ncbi.nlm.nih.gov/39473453/>

Tian, C., Shi, H., Colledge, C., Stern, M., Waterston, R., and Liu, J. (2011). "The *C. elegans* SoxC protein SEM-2 opposes differentiation factors to promote a proliferative blast cell fate in the postembryonic mesoderm." *Development* **138**:1033-1043.

Lo, T.-W., Bennett, D. C., Goodman, S. J., and Stern, M. J. (2010). "*Caenorhabditis elegans* fibroblast growth factor receptor signaling can occur independently of the multi-substrate adaptor FRS2." *Genetics* **185**:537-547.

Kam, N., Kugler, H., Marelly, R., Appleby, L., Fisher, J., Pnueli, A., Harel, D., Stern, M.J., Hubbard, E.J. (2008). "A scenario-based approach to modeling development: a prototype model of *C. elegans* vulval fate specification." *Dev Biol.* **323**: 1-5.

Lo, T.-W., Branda, C. S., Huang, P., Sasson, I. E., Goodman, S. J., and Stern, M. J. (2008). "Different isoforms of the *C. elegans* FGF receptor are required for attraction and repulsion of the migrating sex myoblasts." *Dev. Biol.* **318**:268-275.

Sadot, A., Fisher, J., Barak, D., Admanit, Y., Stern, M.J., Hubbard, E.J.A. and Harel, D. (2007). "Toward Verified Biological Models." *IEEE/ACM Transactions on Computational Biology and Bioinformatics* **5**:223-234.

Kugler, H., Pnueli, A., Stern, M.J. and Hubbard, E.J.A. (2007). "Don't Care Modeling: A logical framework for developing predictive system models." *Proc. 13th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS)*, O. Grumberg and M. Huth (eds.). In "Lecture Notes in Computer Science" (LNCS series); Springer-Verlag, **4424**:343-357.

Kugler, H., Stern, M.J. and Hubbard, E.J.A. (2007). "Testing Scenario-Based Models." *Proc. International Conference on Fundamental Approaches to Software Engineering (FASE)*, M.B. Dwyer and A. Lopes (eds.). In "Lecture Notes in Computer Science" (LNCS series); Springer-Verlag, **4422**:306-320.

Takács-Vellai, K., Vellai, T., Chen, E. B., Zhang, Y., Frédéric, Guerry, F., Stern, M. J., and Müller, F. (2007). "Transcriptional control of Notch signaling by a HOX and a PBX/EXD protein during vulval development in *C. elegans*." *Dev Biol.* **302**: 661-669.

Fisher, J., Piterman, N., Hubbard, E.J.A., Stern, M.J., and Harel, D. (2005). "Computational insights into *Caenorhabditis elegans* vulval development." *Proc Natl Acad Sci U S A* **102**: 1951-1956.

- Fisher, J., Harel, D., Hubbard, E.J.A., Piterman, N., Stern, M.J. and Swerdlin, N. (2005) "Combining State-based and Scenario-based Approaches in Modeling Biological Systems." In Proc. 2nd Int. Workshop on Computational Methods in Systems Biology (ICMSB 2004), V. Danos and V. Schachter (eds.). Lecture Notes in Computer Science, Vol. 3082, Springer-Verlag, pp. 236-241.
- Huang, P. and Stern, M.J. (2004). "FGF signaling functions in the hypodermis to regulate fluid balance in *C. elegans*." *Development* **131**:2595-2604.
- Sasson, I.E. and Stern, M.J. (2004) "FGF and PI3kinase Signaling Pathways Antagonistically Modulate Sex Muscle Differentiation in *C. elegans*." *Development* **131**:5381-5392.
- Kam, N. Harel, D., Kugler, H., Marelly, R., Pnueli, A., Hubbard, E.J.A. and Stern, M.J. (2003) "Formal modeling of *C. elegans* development: a scenario-based approach." In Proc. 1st Int. Workshop on Computational Methods in Systems Biology (ICMSB 2003), C. Priami (ed.). Lecture Notes in Computer Science, Vol. 2602, Springer-Verlag, pp. 4-20.
- Huang, X., Huang, P., Robinson, M.K., Stern, M.J. and Jin, Y. (2003) "UNC-71, an ADAM protein, regulates motor axon guidance and sex myoblast migration in *C. elegans*." *Development* **130**:3147-3161.
- Goodman, S.J., Branda, C.S., Robinson, M.K., Burdine, R.D. and Stern, M.J. (2003) "Alternative splicing affecting a novel domain in the *C. elegans* EGL-15 FGF receptor confers functional specificity." *Development* **130**:3757-3766.
- Schutzman, J.L., Borland, C.Z., Newman, J.C., Kokel, M., Robinson, M.K. and Stern, M.J. (2001) "The *Caenorhabditis elegans* EGL-15 signaling pathway implicates a DOS-like multisubstrate adaptor protein in fibroblast growth factor signal transduction." *Mol. & Cell. Biol.* **21**:8104-8116.
- Branda, C.S. and Stern, M.J. (2000). "Mechanisms controlling sex myoblast migration in *Caenorhabditis elegans* hermaphrodites." *Dev Biol* **226**:137-151.
- Mihaylova, V.T., Borland, C.Z., Manjarrez, L., Stern, M.J., and Sun, H. (1999) "The PTEN tumor suppressor homolog in *C. elegans* regulates longevity and dauer formation in an insulin-receptor like signaling pathway." *Proc. Natl. Acad. Sci. U.S.A.* **96**:7427-7432.
- Harfe, B.D., Branda, C.S., Krause, M., Stern, M.J., and Fire, A. (1998) "MyoD and the specification of muscle and non-muscle fates in postembryonic development of the *C. elegans* mesoderm." *Development* **125**, 2479-2488.
- Selfors, L.M., Schutzman, J.L., Borland, C.Z., and Stern, M.J. (1998) "*soc-2* encodes a novel leucine-rich repeat protein implicated in fibroblast growth factor signaling." *Proc. Natl. Acad. Sci. U.S.A.* **95**, 6903-6908.
- Kokel, M., Borland, C.Z., DeLong, L., Horvitz, H.R., and Stern, M.J. (1998) "*clr-1* encodes a receptor tyrosine phosphatase that negatively regulates an FGF receptor signaling pathway in *C. elegans*." *Genes Dev.* **12**, 1425-1437.
- Burdine, R.D., Branda, C.S. and Stern, M.J. (1998) "EGL-17(FGF) expression coordinates the attraction of the migrating sex myoblasts with vulval induction in *C. elegans*." *Development* **125**, 1083-1093.
- Burdine, R.D., Chen, E.B., Kwok, S.F. and Stern, M.J. (1997) "*egl-17* encodes an invertebrate fibroblast growth factor family member required specifically for sex myoblast migration in *Caenorhabditis elegans*." *Proc. Natl. Acad. Sci. U.S.A.* **94**, 2433-2437.

Chen, E.B., Branda, C.S. and Stern, M.J. (1997) "Genetic enhancers of *sem-5* define components of the gonad-independent guidance mechanism controlling sex myoblast migration in *C. elegans* hermaphrodites." *Dev. Biol.* **182**, 88-100.

DeVore, D.L., Horvitz, H.R. and Stern, M.J. (1995) "An FGF receptor signaling pathway is required for the normal cell migration of the sex myoblasts in *C. elegans* hermaphrodites." *Cell* **83**, 611-620.

Marengere, L.E.M., Songyang, Z., Gish, G.D., Schaller, M.D., Parsons, J.T., Stern, M.J., Cantley, L.C. and Pawson, T. (1994) "SH2 domain specificity and activity modified by a single residue." *Nature* **369**:502-505.

Stern, M.J., Marengere, L.E.M., Daly, R.J., Lowenstein, E.J., Kokel, M., Batzer, A., Olivier, P., Pawson, T. and Schlessinger, J. (1993) "The human GRB2 and *Drosophila Drk* genes can functionally replace the *Caenorhabditis elegans* cell signaling gene *sem-5*." *Mol. Biol. Cell* **4**:1175-1188.

Clark, S.G., Stern, M.J., and Horvitz, H.R. (1992) "*C. elegans* cell-signalling gene *sem-5* encodes a protein with SH2 and SH3 domains." *Nature* **356**:340-344.

Stern, M.J. and Horvitz, H.R. (1991) "A normally attractive cell interaction is repulsive in two *C. elegans* mesodermal cell migration mutants." *Development* **113**:797-803.

Thomas, J.H., Stern, M.J. and Horvitz, H.R. (1990) "Cell interactions coordinate the development of the *C. elegans* egg-laying system." *Cell* **62**:1041-1052.

Stern, M.J., Prossnitz, E. and Ames, G.F.-L. (1987) "Role of the intercistronic region in post-translational control of gene expression in the histidine transport operon of *Salmonella typhimurium*." *Molecular Microbiology* **2**:141-152.

Stern, M.J., Ames, G.F.-L., Smith, N.H., Robinson, E.C. and Higgins, C.F. (1984) "Repetitive Extragenic Palindromic Sequences: A major component of the bacterial genome." *Cell* **37**:1015-1026.

Stern, M.J., Higgins, C.F. and Ames, G.F.-L. (1984) "Isolation and characterization of *lac* fusions to two nitrogen-regulated promoters." *Mol. Gen. Genet.* **195**:219-227.

Reviews, Chapters, Books:

Huang, P. and Stern, M. J. (2005). "FGF signaling in flies and worms: more and more relevant to vertebrate biology." *Cytokine Growth Factor Rev* **16**: 151-158.

Kam, N., Harel, D., Kugler, H., Marelly, R., Pnueli, A., Hubbard, E.J.A. and Stern, M.J. (2004) "Formal modeling of *C. elegans* development: a scenario-based approach." In Modeling in Molecular Biology, pages 151-173, G. Ciobanu and G. Rozenberg (Eds.), *Natural Computing Series*, Springer-Verlag.

Borland, C.Z., Schutzman, J.L. and Stern, M.J. (2001) "FGF signaling in the nematode *Caenorhabditis elegans*." *BioEssays* **23**:1120-1130.

Branda, C.S. and Stern, M.J. (1999) "Cell migration and axon growth cone guidance in *Caenorhabditis elegans*." *Current Opinion in Genetics and Development* **9**, 479-484.

Chen, E.B. and Stern, M.J. (1998) "Understanding cell migration guidance: lessons from sex myoblast migration in *C. elegans*." *Trends Genet.* **14**, 322-327.

Garriga, G. and Stern, M.J. (1994) "Hms and Egls: genetic analysis of cell migration in *Caenorhabditis elegans*." *Current Opinion in Genetics and Development* **4**, 575-580.

Stern, M.J. and DeVore, D.L. (1994) "Extending and Connecting Signaling Pathways in *C. elegans*." *Developmental Biology* **166**:443-459.

Selfors, L.M. and Stern, M.J. (1994) "What the papers say: MAP kinase function in *C. elegans*." *BioEssays* **16**:301-304.

Clark, S.G., Stern, M.J., and Horvitz, H.R. (1992) "Genes involved in two *C. elegans* cell-signaling pathways." *Cold Spring Harbor Symp. Quant. Biol.* **57**:363-373.

Institutional/Administrative publications:

Simon, M.A., Fitzgibbon, M., Ciecierski, C., Cooper, J.M., Martinez, E., Tom, L., Kanoon, J., Feinglass, J., Warnecke, R., Stuart, M., Stern, M., Filus, L., Winn, R.A. (2019). "Building Cross-Institutional Collaborative Infrastructure and Processes: Early Lessons From the Chicago Cancer Health Equity Collaborative." *Prog Community Health Partnersh* **13**: 5-13. PMID: 31378727.

Speaking Invitations:

- 1991 Meeting: "Cell Migration in Development", Stanford University Dept. of Biology, Palo Alto, CA.
- 1992 Departmental Seminar: NYU Med. School Dept. Pharm., New York, NY.
- 1992 Summer Conference in Developmental Biology, Santa Cruz, CA.
- 1992 Banbury Center Workshop: "Constructing Organisms," Cold Spring Harbor, NY.
- 1993 Departmental Seminar: Washington University School of Medicine Department of Genetics, St. Louis, MO.
- 1993 Meeting: "Signal Transduction in Normal and Cancer Cells," Banff, CANADA.
- 1993 Departmental Seminar: Johns Hopkins University Graduate Student Biology Club, Baltimore, MD.
- 1993 European Science Foundation Conference on Developmental Biology, Ittingen, SWITZERLAND.
- 1993 Departmental Seminar: Universite Louis Pasteur Department of Biological Chemistry, Strasbourg, FRANCE.
- 1993 Departmental Seminar: University of California at Berkeley Department of Molecular and Cell Biology, Berkeley, CA
- 1994 Departmental Seminar: Weizmann Institute for Science, Rehovot, ISRAEL.
- 1994 FASEB Summer Conference in Developmental Biology, Santa Cruz, CA.
- 1994 Company Seminar: Miles Pharmaceutical Company, West Haven, CT.
- 1994 Gordon Conference on Peptide Growth Factors, Meriden, NH.
- 1994 Company Seminar: Roche Institute for Molecular Biology, Nutley, NJ.
- 1995 Meeting: "American Association for Cancer Research Signal Transduction Meeting", Banff, CANADA.
- 1995 Meeting: British Society of Developmental Biology Symposium on "Cell Migration: the basis of morphogenesis", Canterbury, UK.
- 1995 FASEB Summer Research Conference: "Protein Kinases and Phosphorylation", Copper Mountain, CO.
- 1995 Departmental Seminar: University of Texas Southwestern Medical Center, Department of Biochemistry, Dallas, TX.
- 1995 Departmental Seminar: Sloan-Kettering Cancer Center, Cell Biology and Genetics Program, New York, NY.
- 1996 Departmental Seminar: Yale University, Dept. of Biology, New Haven, CT.
- 1996 Departmental Seminar: Cold Spring Harbor Laboratories, Cold Spring Harbor, NY.
- 1996 Departmental Seminar: California Institute of Technology, Division of Biology, Pasadena, CA.

- 1996 Northeast Regional Developmental Biology Conference, Woods Hole, MA.
- 1996 FASEB Summer Research Conference: "Protein Phosphatases", Copper Mountain, CO.
- 1996 Departmental Seminar: Dartmouth College, Hanover, NH.
- 1996 Departmental Seminar: Bar-Ilan University, Ramat Gan, ISRAEL
- 1997 Departmental Seminar: University of Toronto, Ontario, CANADA.
- 1997 Departmental Seminar: U. 119 INSERM, Marseille, FRANCE
- 1997 Keynote Speaker: European Worm Community Meeting, Basel, SWITZERLAND.
- 1998 Departmental Seminar: The Skirball Institute, New York, NY.
- 1998 Keystone Symposium Conference on Specificity in Signal Transduction, Lake Tahoe, Nevada.
- 1998 Departmental Seminar: Rutgers University, Piscataway, N.J.
- 1998 Departmental Seminar: Dept. of Biology, NYU, New York, NY.
- 1999 Company Seminar: Novartis Agribusiness Biotech Research, Inc.,
Research Triangle Park, NC.
- 1999 Departmental Seminar: The Carnegie Institute, Baltimore, MD.
- 1999 EMBO Workshop on FGF and their Receptors: Structure to Function. Ein Gedi, ISRAEL.
- 2000 Departmental Seminar: Dept. of Biology, The Technion, Haifa, ISRAEL
- 2000 Israel Invertebrate Meeting, Bar Ilan University, ISRAEL
- 2000 Departmental Seminar: Dept. of Molecular Cell Biology, The Weizmann Institute,
Rehovot, ISRAEL
- 2000 Annual Meeting of the Israel Dev. Biology Society, Technion Medical School,
Haifa, ISRAEL
- 2000 Company Seminar: Curagen Corporation, New Haven, CT.
- 2001 Departmental Seminar: University of Pennsylvania, Dept. of Genetics, Philadelphia, PA.
- 2001 Departmental Seminar: Harvard Medical School, Dept. of Genetics, Boston, MA.
- 2001 Departmental Seminar: Washington University School of Medicine,
Department of Molecular Biology and Pharmacology, St. Louis, MO.
- 2002 DFG International Conference on Cancer, Cadenabbia, ITALY.
- 2002 Computer Modeling Group Seminar: University of Connecticut Health Center, Farmington, CT.
- 2003 Workshop in Computational Methods in Systems Biology, University of Trento,
Rovereto, ITALY.
- 2003 Departmental Seminar: Dept. Mathematics and Comp. Sci, The Weizmann Institute, Rehovot,
ISRAEL.
- 2003 Departmental Seminar: Dept. Genetics, University of Toronto, Toronto, CANADA.
- 2004 Departmental Seminar: Dept. Genetics, Cornell University, Ithaca NY.
- 2004 13th Annual Development Symposium: University of Minnesota, Minneapolis, MN.
- 2005 First International Workshop on Realistic Modeling of Biological Systems,
Rosh Pina, ISRAEL
- 2006 Keynote Speaker: European Worm Community Meeting, Basel, SWITZERLAND.
- 2008 Workshop on *C. elegans* Computational Modeling, Microsoft Research, Cambridge, UK.
- 2009 Institute Seminar: Burnham Institute for Medical Research, Orlando, FL.
- 2011 CGS Summer Workshop: Best Practices in Developing and Maintaining Decision Making Data at
the Graduate Level, Monterey, CA.
- 2013 NEIU Reunion speaker: The HeLa Genome: What Does Cancer Mean to You? NEIU, Chicago, IL
- 2014 Keynote speaker: 22nd Annual Student Research Symposium, NEIU, Chicago, IL
- 2017 Horvitzfest – Symposium honoring the 70th birthday of Nobel prize winner Dr. H. Robert Horvitz:
Massachusetts Institute of Technology, Cambridge, MA.
- 2017 Departmental Seminar: College of Pharmacy, University of Illinois, Chicago, Rockford, IL.