

CURRICULUM VITAE

NAME:

David Stuart Durica

PRESENT POSITION:

Professor Emeritus, Department of Biology, University of Oklahoma

CONTACT INFORMATION:

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FAMILY:

Sherri S. Durica, M.D. (wife), two children (Sarah, 28, Joshua, 26)

EDUCATION:

B.A. (Biology), Clark University, 1970

M.S. (Cell Biology), University of Connecticut, 1973

Ph.D. (Cell Biology), University of Connecticut, 1977

MILITARY SERVICE:

U.S. Army Reserve, ADT: Nov. 1970 - April 1971

Reserve Component, 439th QM Co., 94th ARCOM, April 1971 - June 1976

ACADEMIC APPOINTMENTS AND PROFESSIONAL EXPERIENCE:

Graduate Teaching Assistant, Human Anatomy and Physiology, University of Connecticut, 1971-1976

Postdoctoral Research Associate, Worcester Foundation for Experimental Biology, January 1978-1981

Assistant Professor, Department of Medical Biochemistry, College of Medicine, Texas A&M University, 1982-1988

Assistant Professor, Faculty of Genetics, Texas A&M University, 1985-1988

Assistant Professor, Department of Zoology, University of Oklahoma, 1988-1992

Associate Professor, Department of Zoology, University of Oklahoma, 1993-2005

PROFESSIONAL SOCIETIES:

Genetics Society of America

American Association for the Advancement of Science

Society for Integrative and Comparative Biology

The Crustacean Society

FELLOWSHIPS AND AWARDS:

Bachelor of Arts, Cum Laude

University of Connecticut Teaching Assistantship, Sept. 1970-June 1971

University of Connecticut Demi-Fellowships, Sept. 1972-June 1976

Biological Sciences Summer Fellowship, June-August 1973

University of Connecticut Research Foundation Predoctoral Fellowships,
June 1974-August 1976

Muscular Dystrophy Association Postdoctoral Fellowship, 1979-1981

National Service Award in conjunction with Embryology Course, Marine
Biological Laboratory, Woods Hole, Summer, 1979

Loren G. Hill Travel Award, for participation in Molecular Evolution Workshop,
Marine Biological Laboratory, Woods Hole, MA. August, 1989

TEACHING AND SERVICE RECOGNITION:

Sooner Women's Basketball "honorary coach", 1989

Alpha Phi Omega, "Leaders of the 20th Century", 1999

"Outstanding Reviewer" for General and Comparative Endocrinology, Elsevier
Publishing, 2009-16

UNIVERSITY ADMINISTRATIVE FUNCTIONS AND ELECTED OFFICES:

Member, TAMU College of Medicine Admissions Committee, 1982-1983;
interviewer, 1983-1986

College of Medicine Representative, TAMU Faculty of Genetics Executive
Committee, 1986-1989

Secretary, TAMU Faculty of Genetics Executive Committee, 1986-1987

Chair, Graduate Work Committee, TAMU Faculty of Genetics, 1987-1988

Chair, Seminar Committee, Dept. of Zoology, Univ. Okla. 1990-1991

Member, Graduate Selection Committee, Dept. of Zoology, Univ. Okla. 1989-
96; Chair, 1996-2005; interim Chair, Fall 2008, member, 2007-present

Member, Institutional Radiation Safety Committee, Univ. Okla. 1991-present

Chair, Institutional Radiation Safety Committee, Univ. Okla. 1992-93; new
appointment, 2005-present

Committee A, Dept. of Zoology, Univ. Okla. 1992-93

Member, Institutional Biosafety Committee, Univ. Okla. 1994-present

Member, Institutional Library Committee, Univ. Okla. 1997-2000

Member, Oklahoma Scholar-Leadership Program Advisory Panel, 1998-2009
University of Oklahoma Faculty Senate, 1994-2000

Member, Premedical Advisory Interview Committee, 1997-present

Member, Arts and Sciences Academic Misconduct Committee, 2002-present
Committee A, Dept. of Zoology, Univ. Okla. 2005-2007 (elected office, faculty
review)

Curriculum Committee, Dept. of Biology, Univ Okla 2007-08

Development Committee, Dept. of Biology, Univ. Okla. 2008-present
 Committee A, Department of Biology, 2010-2013 (elected office, faculty review)

PROFESSIONAL ADMINISTRATIVE FUNCTIONS:

Chair, Gulf Coast Molecular Biology Conference, 1984
 Member, Steering Committee, Lost Pines Molecular Biology Conferences, 1985-1987
 Panel member, National Advisory Committee on Nucleic Acids and Protein Synthesis, American Cancer Society, 1988
 Ad hoc reviewer, National Science Foundation
 Ad hoc reviewer, Israel Science Foundation
 Ad hoc reviewer, United States-Israel Bi-national Science Foundation
 Co-organizer (with P.M. Hopkins) of Symposium on the Evolution of the Steroid/Thyroid/Retinoic Acid Receptor Family, 1998 Annual Meeting, Society for Comparative and Integrative Zoology
 Panel member, Processes, Structure and Integrity Program, Physiological and Structural Systems Cluster, Integrative Organismal Systems Division of the Biology Directorate, National Science Foundation, 2009.
 Panel member, Departmental Review Panel, Department of Biology, University of Texas, San Antonio, 2013.
 Invited Speaker, 13th International Congress of Invertebrate Reproduction and Development, Detroit, MI, July 14-19, 2013.
 Co-organizer (with D. Mykles, K. Burnett, J. Stillman) "Tapping the Power of Crustacean Transcriptomes to Address Grand Challenges in Comparative Biology," 2016 Annual Meeting, Society for Comparative and Integrative Biology.
 Ad hoc reviewer for journals in my field, including General and Comparative Endocrinology, Comparative Biochemistry and Physiology, Molecular and Cellular Endocrinology, Journal of Endocrinology, Endocrinology, Bioinformatics, Naturwissenschaften, Journal of Experimental Zoology, Genetics, Gene, Molecular Biology Reports, BMC Genomics, CCBIOS Proceedings, PLOS One, Aquaculture Research, Journal of Crustacean Biology.

GRANTS AND CONTRACTS (funded):

Principal Investigator/Co-PI (total award):

"Genomic Organization and Developmental Expression of Actin Genes", Biomedical Research Support Grant, 7/1/82-3/31/83, \$4,500.
 "Molecular Cloning and Characterization of Contractile Protein Multigene Families", Biomedical Research Support Grant, 9/1/83-3/31/84, \$4,500.

- "Conservation of Retroviral onc Gene Sequences in the Genomes of Lower Vertebrates and Invertebrates", Center for Comparative Medicine, 9/1/83-8/31/85, \$45,879.
- "Actin Gene Organization and Expression", National Institutes of Health, 3/1/83-2/28/89, \$331,214.
- "Analysis of Calliphora erythrocephalaablproto-oncogenes", American Cancer Society, 1/87-9/90, \$68,000.
- "abl Gene Organization and Function in C. erythrocephala, Oklahoma Associates Funds for Research and Creative Activity, equipment grant for research photomicroscope, \$29,171.
- "Analysis of abl gene function in C. erythrocephala", Oklahoma Center for the Advancement of Science and Technology, 9/89-9/91, \$60,000.
- "Analysis of actin gene fusions", Biomedical Research Support Grant, 6/1/89-5/31/90, \$4,290.
- "Upgrade of Laboratory Microcomputer for DNA Sequence Analysis", University of Oklahoma Computing Services, 2/91, \$3,103.12.
- "Characterization of abl Gene Expression in the blowfly, C. erythrocephala", Faculty Research Fund, University of Oklahoma, 6/92-6/93, \$770.
- "Isolation of the Crustacean Gene(s) Encoding Steroid Receptor Protein(s) for the Polyhydroxylated Hormone, Ecdysone", (P.M. Hopkins, co-PI), University of Oklahoma Research Council, 10/92-10/93, \$4,915.
- "Identification of Y Chromosome Molecular Polymorphisms in Mvskoek Creek Indians, University of Oklahoma Research Council, 10/93-94, \$1000.
- "Ecdysteroid and Retinoid Receptors in Crustacea, Expression in Regenerating Limbs", (DSD co-PI with P.M. Hopkins, P.I.), National Science Foundation, 9/94-9/98, \$255,911.
- "Electronic Autoradiography System", University of Oklahoma Research/Creative Activity Equipment Program, 10/96, \$25,000.
- "Computer Upgrade to Aid Instructional Development of Genetics Curriculum", College of Arts and Sciences Faculty Grants, 1/97, \$1,500.
- "Microcomputer for DNA Sequence Analysis and Manuscript Editing", University of Oklahoma Research Council, 3/97, \$1,000.
- "Symposium: Evolution of the Steroid/Thyroid/Retinoic Acid Receptor Family: January 5, 1998, Boston, MA, (DSD co-PI with P.M. Hopkins, PI), National Science Foundation, 8/15-7/98, \$5,000.
- "Nuclear Receptor/Ligand Interaction In Limb Regeneration", (DSD PI with P.M. Hopkins, co-PI) Oklahoma Center for the Advancement of Science and Technology, 9/97-9/00, \$105,000.
- "Computer-aided Image Reconstruction, Analysis and Quantification System", University of Oklahoma Research/Creative Activity Equipment Program, 10/98, \$23,587.

- "Hormonal Regulation During Growth and Regeneration in Crustacea: Ecdysteroid and Retinoid Receptors, (DSD PI with P.M. Hopkins, co-PI) National Science Foundation, 9/99-8/03, \$311,207.
- "Research Experiences for Undergraduates Program" (REU), Supplemental funds for Andrea Parker, National Science Foundation, 6/02-9/02, \$4,500.
- "International: EcR and RXR Receptor Gene Function in Crustacea: Hormonal Signaling During Gonad Maturation and Early Development", National Science Foundation, 5/03-4/08, \$30,034.
- "Hormonal Coordination of Growth and Reproductive Cycles in a Crustacean: Ecdysteroid and Retinoid Receptors", (DSD co-PI with P.M. Hopkins, PI), National Science Foundation, 9/03-8/09, \$313,084.
- "A Capillary DNA Sequencer, Quantitative RT-PCR Machine, and Digital Phosphor/Fluorescent Imager for a Multi-User Facility in the University of Oklahoma Department of Zoology,"(R. E. Broughton, PI, DSD co-PI with L. J. Weider and R. S. Hewes) National Science Foundation, 5/15/04-4/30/06, \$179,921.
- "Hormonal Coordination of Growth and Reproductive Cycles in a Crustacean: Ecdysteroid and Retinoid Receptors", National Science Foundation, 8/05-8/06, \$7,000. supplemental request.
- "Hormonal Regulation of Gene Expression in Crustacea" Oklahoma Center for the Advancement of Science and Technology, (D. Durica, P.I) 8/08-12/11, \$134,916.
- "Signaling Mechanisms in the Crustacean Molting Gland" National Science Foundation, (D. Mykles, PI, D. Durica, Co-PI), 3/1/13-2/20/18, \$226,429 (Durica Laboratory subcontract).
- "Faculty Enrichment Grant" OU College of Arts & Sciences to present symposium talk at 13th International Conference of Invertebrate Reproduction and Development, Detroit, MI, 2013. \$1200.
- "RCN: A network to promote comparative genome to phenome analysis", National Science Foundation, (Carl Schmidt, PI, D. Durica, executive committee), 5/1/15-4/30/20, \$97,951.
- "Symposium: Tapping the Power of Crustacean Transcriptomes to Address Grand Challenges in Comparative Biology", annual meeting, Society for Integrative and Comparative Biology, Portland, Oregon, January 3-7, 2016 National Science Foundation, (D. Mykles, PI., DSD, Karen Burnett, Jonathon Stillman, Co-PIs, 12/15-11/16, \$10,600.

Co-investigator/consultant:

- "Origins of infant leukemia: a study of the molecular genetics imparting malignant potential" (L. Frankel, M.D., principal investigator) Scott and White Memorial Hospital, 6/87-6/88, \$24,000.

- Consultant, "Vaccine Against Shipping Fever Pneumonia in Cattle", (R. Young and D. Struck, principal investigators), Texas Advanced Technology Research Program, 12/85-8/87, \$10,000.
- "Advanced Center for Genome Technology", (Bruce Roe, Principal Investigator, DSD 3%) NSF EPSCoR, 9/95-9/98, \$350,000.
- "Departmental Scintillation Counter", (Alyce DeMarais, Principal Investigator), University of Oklahoma Research/Creative Activity Equipment Program, 10/95, \$20,440.
- "Equipment for Characterization and Analysis of Cellular Proteomes", (John Downard, Principal Investigator), University of Oklahoma Research/Creative Activity Equipment Program, 10/00, \$25,000.
- "Microplate Reading System", (B. Safiejko-Mrocza, Principal Investigator), University of Oklahoma Research/Creative Activity Equipment Program, 10/01, \$14,868.50.
- "Request for LCD Projector for Zoo 3342, Genetics Laboratory", CAS Computing Funds, 10/03, \$9,267.66 (Co-PI with B. Safiejko-Mrocza, R. Sullivan and H. Wang).

PUBLICATIONS:

TEXTBOOK:

- Thompson, J.N. Jr., Hellack, J.J., Braver, G. and Durica, D.S. 2007. Primer of Genetic Analysis, 3rd ed., Cambridge Press.

RESEARCH:

- Durica, D.S. and H.M. Krider. 1977. Studies on the ribosomal RNA cistrons in interspecific *Drosophila* hybrids. I. Nucleolar dominance. *Devel. Biol.* 59:62-74.
- Durica, D.S. and H.M. Krider. 1978. Studies on the ribosomal RNA cistrons in interspecific *Drosophila* hybrids. II. Heterochromatic regions mediating nucleolar dominance. *Genetics* 89:37-64.
- Durica, D.S., Schloss, J., and W.R. Crain, Jr. 1980. Studies on the organization of actin gene sequences in the sea urchin: Molecular cloning of an intron-containing DNA sequence coding for a cytoplasmic actin. *Proc. Natl. Acad. Sci. USA.* 77:5683-5687.
- Crain, W.R., Jr., Durica, D.S., and K. Van Doren. 1981. Actin gene expression in developing sea urchin embryos. *Mol. and Cell. Biol.* 1:711-720.
- Scheller, R.H., McAllister, L.B., Crain, W.R., Jr., Durica, D.S., Posakony, J.W., Thomas, T.L., Britten, R.J., and E.H. Davidson. 1981. Organization and expression of multiple actin genes in the sea urchin. *Mol. and Cell. Biol.* 1:609-628.
- Crain, W.R., Jr., Durica, D.S., Cooper, A.D., Van Doren, K., and F.D. Bushman. 1982. Structure and developmental expression of sea urchin actin genes. In "Molecular and Cellular Control of Muscle Development", Cold Spring Harbor, New York. pp. 97-105.

- Durica, D.S., and W.R. Crain, Jr. 1982. Analysis of actin synthesis during early sea urchin development. *Devel. Biol.*, 92:428-439.
- Pierron, G., Durica, D.S., and H.W. Sauer. 1984. Invariant temporal order of replication of the four actin gene loci during the naturally synchronous mitotic cycles of *Physarum polycephalum*. *Proc. Natl. Acad. Sci. USA*. 81:6393-6397.
- Struck, D.K., Durica, D.S., and R. Young. 1986. Gene fusions in vivo using transductional cointegrates. *Gene* 47:221-230.
- Crain, W.R., Jr., Boshar, M.F., Cooper, A.D., Durica, D.S., Nagy, A., and D. Steffen. 1987. The sequence of a sea urchin muscle actin gene suggests a gene conversion with a cytoskeletal actin gene. *J. Mol. Evol.* 25:37-45.
- Durica, D.S., Restrepo, M.A., Thomas, T.L., and K. Beckingham. 1987. Isolation and characterization of *abl* gene sequences in *Calliphora erythrocephala*. *Gene* 59:63-76
- Mintzer, C.L., Deloron, P., Rice-Ficht, A., Durica, D.S., Struck, D.K., Roessner, C.A., Nicolau, C., and G. M. Ihler. 1988. Reduced parasitemia observed with erythrocytes containing inositol hexaphosphate. *Antimicrob. Agents Chemother.* 32:391-394.
- Durica, D.S., Garza, D., Restrepo, M.A. and M. M. Hryniewicz. 1988. DNA sequence analysis and structural relationships among the cytoskeletal actin genes of the sea urchin *Strongylocentrotus purpuratus*. *J. Mol. Evol.* 28:72-86.
- Durica, D.S., 1990. DNA sequence analysis of an *abl*-related gene in the blowfly, *C. erythrocephala*. *SAAS Bull. Biochem. Biotech.* 3:58-62.
- Durica, D.S. 1991. Organization and expression of an *abl* gene homologue in *Calliphora erythrocephala*. In: *Chronic Myelogenous Leukemia: Molecular Approaches to Research and Therapy.* (A Deisseroth and R.B. Arlinghaus, eds.) Marcel Dekker, Inc. New York. pp 117-136.
- Beifuss, M.J. and D.S. Durica. 1992. Nucleotide sequence analysis of the indirect flight muscle actin gene of *Drosophila simulans*. *Gene* 118:163-170.
- Huang, N., and D.S. Durica. 1993. Differential recovery of mRNA transcripts using acid organic extraction techniques: quantification of *abl* mRNA abundance in the blowfly, *Calliphora erythrocephala*. *SAAS Bull. Biochem. Biotech.* 6:21-30.
- Hopkins, P.M. and D. S. Durica. 1995. Effects of all-trans retinoic acid on regenerating limbs of the fiddler crab, *Uca pugilator*. *J. Exp. Zool.* 272:455-463.
- Durica, D.S. and Hopkins, P.M. 1996. Expression of the genes encoding the ecdysteroid and retinoid receptors in regenerating limb tissues from the fiddler crab, *Uca pugilator*. *Gene* 171:237-241.
- Chung, A.C.-K., Durica, D.S. and Hopkins, P.M. 1998. Tissue-specific patterns and steady-state mRNA concentrations of ecdysteroid receptor

- and retinoid-X-receptor during the molt cycle of the fiddler crab, *Uca pugilator*. *Gen. Comp. Endocrinol.* 109:375-389.
- Chung, A.C.-K., Durica, D.S., Clifton, S.W., Roe, B.A., and Hopkins, P.M. 1998. Cloning of crustacean EcR and RXR gene homologs and elevation of RXR mRNA by retinoic acid. *Mol. Cell. Endocrinol.* 139:209-227.
- Hopkins, P.M., Chung, A.C.-K. and Durica, D.S. 1999. Limb regeneration in the fiddler crab, *Uca pugilator*: anatomical and physiological considerations. *Amer. Zool.* 39:513-527.
- Durica, D.S. and Hopkins, P.M. 1999. Introduction to the Symposium: Evolution of the steroid/thyroid/retinoic acid receptors. *Amer. Zool.* 39:699-703.
- Durica, D.S., Chung, A.C.-K., and Hopkins, P.M. 1999. Characterization of EcR and RXR gene homologs and receptor expression during the molt cycle in the crab, *Uca pugilator*. *Amer. Zool.* 39: 758-773.
- Durica, D.S., Wu, X., Anilkumar, G. Hopkins, P.M. and Chung, A.C.-K. 2002. Characterization of crab EcR and RXR homologs and expression during limb regeneration and oocyte maturation. *Mol. Cell. Endocrinol.* 189:59-76.
- Wu, X., Hopkins, P.M., Palli, S.R. and Durica, D.S. 2004. Crustacean retinoid-X receptor isoforms: distinctive DNA binding and receptor-receptor interaction with a cognate ecdysteroid receptor. *Mol. Cell. Endocrinol.* 218:21-38.
- Wu, X., Hopkins, P.M. and Durica, D.S. 2004. Observation of autotomy-independent limb regeneration in the fiddler crab, *Uca pugilator*. *SAAS Bull. Biochem. Biotech.* 17: 9-19.
- Durica, D.S., Kupfer, D., Najar, F., Lai, H., Tang, Y., Griffin, K., Hopkins, P.M. and Roe, B. 2006. EST library sequencing of genes expressed during early limb regeneration in the fiddler crab and transcriptional responses to ecdysteroid exposure in limb bud explants. *Integr. Comp. Biol.* 46: 948-964.
- Hopkins, P.M., Durica, D., and Washington, T. 2008. RXR isoforms and endogenous retinoids in the fiddler crab, *Uca pugilator*. *Comp. Biochem. Physiol. A Mol. Integr. Physiol.* 151:602-614.
- Das, S. and Durica, D.S. 2013. Ecdysteroid receptor signaling disruption obstructs blastemal cell proliferation during limb regeneration in the fiddler crab, *Uca pugilator*. *Mol. Cell. Endocrinol.* 365(2):249-59. doi: 10.1016/j.mce.2012.10.026.
- Durica, D.S., Das, S., Najar, F., Roe, B., Phillips, B., Kappalli, S. and Anikumar, G. 2014. Alternative splicing in the fiddler crab cognate ecdysteroid receptor: Variation in receptor isoform expression and DNA binding properties in response to hormone. *Gen Comp Endocrinol.* 206:80-95. doi: 10.1016/j.ygcen.2014.05.034.
- Shyamal, S., Anilkumar, G., Baskaran, R., Dos, G.P. and Durica, D.S. 2015.

- Significant fluctuations in ecdysteroid receptor gene (EcR) expression in relation to seasons of molt and reproduction in the grapsid crab, *Metopograpsus messor* (Brachyura: Decapoda). *Gen. Comp. Endocrinol.* 211:39-51 doi: 10.1016/j.ygcen.2014.11.006
- Das S., Pitts N.L., Mudron M.R., Durica, D.S., and Mykles, D.L. 2016. Transcriptome analysis of the molting gland (Y-organ) from the blackback land crab, *Gecarcinus lateralis*. *Comp. Biochem. Physiol. Part D Genomics Proteomics.* 17:26-40. doi: 10.1016/j.cbd.2015.11.003.
- Mykles, D.L., Burnett, K.G., Durica, D.S., and Stillman, J.H. 2016. Tapping the Power of Crustacean Transcriptomics to Address Grand Challenges in Comparative Biology: An Introduction to the Symposium. *Integr. Comp. Biol.* 56:1047-1054. doi: 10.1093/icb/icw116
- Das, S., Shyamal, S. and Durica, D.S. 2016. Analysis of Annotation and Differential Expression Methods used in RNA-seq Studies in Crustacean Systems. *Integr. Comp. Biol.*; 56:1067-1079. doi: 10.1093/icb/icw117.
- Mykles D.L., Burnett, K.G., Durica, D.S., Joyce, B.L., McCarthy, F.M., Schmidt, C.J. and Stillman, J. H. 2016. Resources and Recommendations for Using Transcriptomics to Address Grand Challenges in Comparative Biology. *Integr. Comp. Biol.* 56:1183-1191. doi:10.1093/icb/icw083.
- Shyamal S., Das S., Guruacharya, A., Mykles, D.L., and Durica, D.S. 2018. A transcriptomic approach examining crustacean Y Organ molt cycle regulation via the mTOR signaling pathway. *Scientific Reports*, in press.
- Das, S. Martin, L.A., Zhou, W., Durica D.S., and Mykles D.L. 2018. Analysis of differentially expressed genes in the molting gland (Y-organ) of the blackback land crab, *Gecarcinus lateralis*, during molt-cycle stage transitions. Submitted to *Comp. Biochem. Physiol. Part D Genomics Proteomics*.

CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS

- Durica, D.S. and H. M. Krider. 1976. Transcription and replication of ribosomal DNA in interspecific *Drosophila* hybrids. *J. Cell Biology* (Abstract) 70:399a. Presentation, 1st International Congress on Cell Biology, Boston, MA.
- Durica, D.S. and W.R. Crain, Jr. 1979. Cloning and characterization of sea urchin genomic DNA fragments containing putative actin coding sequences. *J. Cell Biology* (Abstract) 83:192a. Presentation, American Society for Cell Biology, Toronto, CAN.

- Durica, D.S., Schloss, J., and W.R. Crain, Jr. 1979. Studies on actin mRNA-complementary genomic DNA sequences in the sea urchin, *Strongylocentrotus purpuratus*. Biol. Bull. (Abstract) 157:367. Presentation, Marine Biology Laboratory, Woods Hole, MA.
- Durica, D.S., Van Doren, K., and W.R. Crain, Jr. 1980. Structure and developmental expression of sea urchin actin genes. Eur. J. Cell Biol. (Abstract) 22(1):47. Invited symposium speaker, 2nd International Congress on Cell Biology, Berlin, West Germany.
- Cooper, A.D., Durica, D.S., and W.R. Crain, Jr. 1980. Partial nucleotide sequence of two sea urchin actin gene clones. J. Cell Biol. (Abstract) 7:113a. Presentation, American Society for Cell Biology, Cincinnati, Ohio.
- Durica, D.S. and W.R. Crain, Jr. 1981. Actin synthesis during early development in the sea urchin, *S. purpuratus*. J. Cell Biol. (Abstract) 91:42a. Presentation, American Society for Cell Biology, Anaheim, CA.
- Hryniewicz, Monika M. and D.S. Durica. 1983. Analysis of the sea urchin actin multigene family using gene-specific probes. J. Cell Biol. (Abstract) 97:330a. Presentation, American Society for Cell Biology, San Antonio, Texas.
- Durica, D.S., Nordstrom, J.L. and T. Thomas. 1985. Applications of Molecular Cloning Techniques to Developing Systems. Texas J. of Sci. (Abstract) 37:115. Workshop, Second Annual Southwestern Developmental Biology Conference, Texas A&M University.
- Restrepo, M., Iovannisci, D., Durica, J., Lavalley, K., Tucker, M., Beckingham, K., Thomas, T., and D. S. Durica. 1986. Isolation and characterization of a *C. erythrocephala* *abl* proto-oncogene family. Third Annual Southwestern Developmental Biology Conference, Houston, Texas.
- Beifuss, M., Iovannisci, D., Struck, D.K., Durica, D.S. 1986. Isolation and characterization of sarcomeric actin genes in the dipterans, *C. erythrocephala* and *D. simulans*. Presentation, Third Annual Southwestern Developmental Biology Conference, Houston, Texas.
- Durica, D.S., Garza, D., Moulds, T., and Struck, D.S. 1987. In vivo analysis of actin gene fusions generated by cointegrate transduction. Presentation, Lost Pines Conference, UTSCC-Science Park, Texas.
- Durica, D.S., Garza, D., Moulds, T., Beifuss, M., and Struck, D.S. 1988. In vivo analysis of actin gene fusions generated by cointegrate transduction. 6th Annual Southwestern Developmental Biology Conference, University of Texas Marine Biological Laboratories, Port Aransas, Texas.
- Durica, D.S., Robinson, C.E. and Voelker, R.B. 1990. DNA sequence analysis of an *abl*-related gene in the blowfly, *C. erythrocephala*. Invited symposium speaker, Biochemistry and Biotechnology section, 87th Annual Meeting, Southern Association of Agricultural Scientists, Little Rock, Arkansas.

- Durica, D., Robinson, C. Voelker, R. 1990. DNA sequence analysis of an abl-related gene in *C. erythrocephala* (Ceabl). 31st Annual Drosophila Research Conference, Asilomar Conference Center, Pacific Grove, California.
- Durica, D., Voelker, R., Hooker, S. and Robinson, C. 1991. Developmental expression of an abl gene homolog in the blowfly, *C. erythrocephala*. 32nd Annual Drosophila Research Conference, Chicago Hilton and Towers, Chicago, Illinois.
- Robinson, C., Hooker, S., and Durica, D. 1992. Organization and expression of the *C. erythrocephala* abl (Ceabl) locus. 33rd Annual Drosophila Research Conference, Wyndham Franklin Plaza, Philadelphia, Pennsylvania.
- Huang, N., and Durica, D.S. 1993. Quantification of mRNA abundance in the blowfly, *Calliphora erythrocephala*, invited symposium speaker, Biochemistry Section, 90th Annual Meeting, Southern Association of Agricultural Scientists, Tulsa, Oklahoma.
- Huang, N, and Durica, D.S. 1993. Differential expression of an abl gene homolog during *Calliphora erythrocephala* development. 11th Annual Southwestern Regional Developmental Biology Conference, University of Oklahoma Biological Station, Kingston, Oklahoma.
- Durica, D.S., Hopkins, P.M., Chung, A., and Vij, V. 1994. Ecdysteroid receptor gene expression during limb regeneration in the crab, *Uca pugilator*. 12th Annual Southwestern Regional Developmental Biology Conference, University of Texas Health Science Center, Houston, Texas.
- Hopkins, P.M. and Durica, D.S. 1994. Ecdysteroids and retinoids in the early blastema of regenerating limbs in the fiddler crab, *Uca pugilator*. XIth Ecdysone Workshop, Ceske Budejovice, Czech Republic.
- Hopkins, P.M. and Durica, D.S. 1994. The effect of all-trans retinoic acid in the regeneration of walking legs in the fiddler crab *Uca pugilator*. Southwestern Regional Conference on Comparative Endocrinology, Lubbock, Texas.
- Hopkins, P.M., Durica, D.S., and Carter, K.L. 1995. Ecdysteroid and retinoid receptors in the early blastema of regenerating limbs in the fiddler crab *Uca pugilator*. *Amer. Zool.* (abstract) 34:82A. Presentation, American Society of Zoology, St. Louis MO.
- Durica, D.S., Hopkins, P.M. and Chung, A. 1995. Ecdysteroid receptor gene expression during limb regeneration in the crab *Uca pugilator*. *J. Cell. Biochem.* (abstract) 19B:338. Presentation, Keystone Symposia, Molecular Approaches to Marine Biology and Evolution, Santa Fe NM.

- Durica, D.S., Chung, A.-K., and Hopkins, P.M. 1996. Ecdysteroid and retinoid receptor gene expression during growth and regeneration in the fiddler crab, *Uca pugilator*. Keystone Symposia, Steroid/Thyroid/Retinoic Acid Gene Family, Lake Tahoe, NV.
- Chung, A.C.-K., Durica, D.S., and Hopkins, P.M. 1996. Steady-state mRNA concentrations of ecdysteroid receptor and retinoid-X-receptor in tissues from the fiddler crab *Uca pugilator*. XII Ecdysone Workshop, Barcelona, Spain.
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