

**Curriculum Vitae**

**Thomas H. Rosenquist**

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## CURRICULUM VITAE

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BORN: February 16, 1942  
 Dubuque, Iowa  
 Married, 3 Adult Children

## EDUCATION

- B.S. 1964** Zoology / Chemistry. University of Dubuque, Iowa
- M.S. 1967** Zoology / Lipids Biochemistry. New Mexico Highlands State University
- Ph.D. 1969** Cell Biology & Anatomy / Biochemistry. LSU Health Sciences Center, New Orleans.
- Post-Doc 1970** Dep't of Cell and Neurobiology, U Southern California School of Medicine, Los Angeles.

## ACADEMIC POSITIONS

### 1970-73 University of Southern California, Los Angeles

1970-73 Assistant Professor, Cell and Neurobiology (formerly Anatomy)

### 1973-91 Medical College of Georgia, Augusta

1973-75 Assistant Professor, Cellular Biology and Anatomy

1975-81 Associate Professor

1981-91 Professor; 1983-84 Acting Chairman

### 1991- 2001 University of Nebraska Medical Center, Omaha

1991-01 Professor and Chairman, Cell Biology and Anatomy

1998-01 Anna and Ardith von Housen Endowed Professorship

1999-01 Director of Research Development, Office of the Chancellor

2001-02 Interim Vice Chancellor for Research

2002- Vice Chancellor for Research

## EXTRAMURAL RESEARCH SUPPORT

### GRANTS since 2000, NIH, PRINCIPAL INVESTIGATOR

2001- 07 *"Folic Acid and Homocysteine: Mechanisms of Heart Defects"*  
NIH NHLBI PO1-HL-66398 (Principal Investigator)  
30% effort. \$5,558,865 TC

1995-04 *"Homocysteine and Congenital Heart Defects"*  
NIH NHLBI RO1-HL-55940 (Principal Investigator)  
15.4% effort. \$1,375,508 TC

1999-03 *"Receptor-Mediated Growth Effects of Homocysteine"*  
NIH NHLBI RO1-HL-58969 (Principal Investigator)  
18.3% effort. \$1,356,747 TC

1988 94 NLHBI "Elastic Artery Development and Congenital Heart Defects."  
R01 HL 42164. 25% effort. \$579,000 TDC

1990 95 NLHBI "Developmental Heterogeneity Among the Great Arteries."  
R01 HL 45337. 33% effort. \$719,000 TDC

1993 95 NHLBI Research Supplement for Under-represented Minority Investigators to  
R01 HL 45337. \$108,300 TDC

## HISTORY OF EXTRAMURAL RESEARCH SUPPORT

*By Years and Funding Source (Alphabetical - PRINCIPAL INVESTIGATOR OR DIRECTOR ONLY)*

Funding Source	Role in Project	Years
American Diabetes Association, Inc	Principal Investigator	81-82
American Heart Association/Affiliates	Principal Investigator	70 75; 87 89; 91 93 <sup>1</sup>
Johnson & Johnson Pharmaceuticals	Principal Investigator	97-99
Kroc Foundation, Inc.	Co-PI with Thomas Huff, MD	80-84
Nebraska Health & Human Services	Principal Investigator	98-99
NIH R23 (predecessor of R29)	Principal Investigator	76-79
NIH PO1	Director, Project / Core	84-94 <sup>2</sup>
NIH RO1	Principal Investigator	88 14
NIH PO1	Principal Investigator	01-07

<sup>1</sup> transferred PI to Robert Wrenn in 1992

<sup>2</sup> transferred Project Director to Margaret Kirby, Core Director to Tony Creazzo, in 1992

**UNITED STATES PATENT:** (Granted Feb 15, 2000)

- “N-Methyl-D-Aspartate (NMDA) Receptor Blockers for the Prevention of Atherosclerosis”. Pat # 6,025,369, to Thomas H. Rosenquist, Daniel T. Monaghan, Preston F. Gadson and Vincent J. Andaloro. Research for this patent was based upon RO1 HL 58969

**SERVICE IN PEER REVIEW:**

- 1991-1995
- 1995-2001

**FEDERAL AGENCIES:**

- NIH
- NASA
- NSF

**NIH PROGRAM GRANTS STUDY SECTIONS / IRG**

- 1993 NIH-NHLBI Special Program Grants Study Section RFA-NIH-93-04-H, “*SCOR Grants in Pediatric Diseases*”
- 1994 NIH-NHLBI Program Grants Study Section /Site Visit, PO1 Proposals in Heart Development
- 1996 NIH-NHLBI Special Program Grants Study Section RFA-NIH-P50-95- HL-06-H, “*SCOR Grants in Molecular Medicine / Atherosclerosis*”
- 1998 NIH-NHLBI Program Grants Study Section, PO1 Proposals in Heart Development
- 1999 NIH-NHLBI Program Grants Study Section, PO1 Proposals in Heart Development
- 2000 NIH-NHLBI Program Grants Study Section, PO1 Proposals in Heart Development
- 2000 NIH-NICHD RFA HD-99-008 “Developmental Mechanisms of Human Malformations”, PO1 Proposals in Developmental Biology

**OTHER NIH STUDY SECTIONS / IRG**

- 1991, 92 NIH Human Embryology and Development Study Section 2 (ad hoc)
- 1996 NIH/NASA Special Study Section, “Simulated Micro-Gravity and Cardiovascular, Pulmonary and Hematological Research”
- 1997 NIH National Center for Research Resources, Scientific and Technical Review Board. Biomedical and Behavioral Research Facilities NCRR IRG Scientific and Technical Review Board on Biomedical and Behavioral Research Facilities STRB May 27-29, 2003 CENTER FOR SCIENTIFIC REVIEW SPECIAL EMPHASIS PANEL, ZRG1 CDD 01, 3/24/2004-3/24/2004

**NIH PLANNING GROUPS**

- 1998 NIH-NHLBI Working Group for RFA Development, The Role of Cholesterol and Lipids in Embryonic Development and Congenital Disease

2000 NIH-NHLBI Working Group for RFA Development, Heart Development (Invited, did not attend)

### **CHAIRMAN, NASA PEER REVIEW PANELS**

1994 Chairman, National Peer Review Panel, NASA, "*Developmental Biology Flight Experiments*", Spacelab MIR-1 NRA 93-OLSMA-06, Wash., DC

1994 Member, Site Visit Team, NASA Space Biology Center, Kansas State University, Manhattan, KS

1995 Chairman, International Peer Review Panel, NASA / European Space Agency "*Biorack Flight Opportunities on Shuttle Missions*". Cell/ Developmental Biology. NRA 94-OLSMA-03, Toulouse, France

1997-99 Chairman, International Peer Review Panel, "*NASA Research Opportunities in Space Life Sciences. Gravitational Biology and Biomedical Research*". NRA HEDS-04, Washington, DC

### **NATIONAL SCIENCE FOUNDATION**

1997, 98, 99 National Science Foundation, *ad hoc* initial grants review, Developmental Mechanisms and Cell Biology, Arlington, VA

### **NON-FEDERAL AGENCIES**

1995 North Carolina Biotechnology Center, Academic Research Initiation grants Program Peer Review Panel

1996-98 American Heart Association, Mid-America Affiliates

### **TEACHING AT UNMC 1991-01**

UNMC College of Medicine

#### **Course Director:**

- Med IV, Introduction to Vascular Biology, "Senior Selective", 1995 01  
Course Participant, Laboratories, Lectures and Small Group Facilitator:
- Med I Histology, 1992 (traditional curriculum)
- Med I Cellular and Developmental Processes, 1992 00; lectures / laboratories (integrated curriculum)
- Med I Function of the Human Body, 1993 00; lectures / laboratories (integrated curriculum)
- Med I Problem Based Learning, Facilitator, 1992 94
- Med I Journal Club, Facilitator, 1992 93
- Allied Health Sciences, Embryology for Gross Anatomy, 1995; lectures
- Med I, II, III Advisor, Medical Student Summer Research Fellows, 1993, 1995

#### **UNMC College of Pharmacy**

Course Participant, Laboratories, Lectures

- Pharm I Applied Biochemistry, Lectures, 1999-2001

UNMC College of Graduate Studies

#### **Course Director:**

- Cell Biology ANM 811, course director 1992-93; lecturer only, 94-98.
- Seminars in Cell Biology, 1992; 1998; 1999; facilitator and organizer.

#### **PhD Mentor / Major Professor**

- Sheldon Thieszen, M.D., PhD 1995. MD / PhD. Faculty, Radiology, Univ. of Utah
- Georgianna Witt, PhD 1999. Attorney, intellectual property law specialty, Houston.
- Alisa J. Nollendorfs, PhD 1999. MD / PhD. Physician in practice, Lincoln, NE
- Melanie Kitzan, PhD 2000. Attorney, intellectual property law specialty, Seattle
- Rodney Miles, PhD 2000. MD / PhD Fellow. Pathology resident.
- Aimee Limpach, PhD May 2001. Faculty member, Creighton University Med Center, Omaha
- Kimberly Latacha, PhD May 2003. Faculty member, Washington University, St Louis
- Octavian Lie, MD, current 2005 expected graduation 2009

#### **MS Mentor / Major Professor:**

- Karen Dewey, MS 1995. Faculty member in UNMC Physical Therapy curriculum.

#### **Postdoctoral Research Associates:**

- |          |                             |   |
|----------|-----------------------------|---|
| •1995-97 | Vincent J. Andaloro, Ph.D., | Director of Research, private industry      |
| •1998    | Michael L. Dalton, Ph.D.,   | Assistant Professor, University of Nebraska |
| •1998-00 | Mark P. Thomas, Ph.D.,      | Assistant Professor, University of Nebraska |

### **TEACHING AT THE MEDICAL COLLEGE OF GEORGIA, 1973-92**

#### *School of Medicine*

Course Director:

- Medical Histology 1975-90; • Histochemistry elective for M1/M2, 1973-90; • Medical Embryology, 1973-78.

Course Participant, lectures and laboratories: • Embryology, 1979-82

#### *School of Graduate Studies*

Course Director:

- Histology, 1973-1990; • Histochemistry, 1973-91; • Seminar in Anatomy, 73-75, 76-78, 83-84; • Embryology, 73-78
- PhD Mentor / Major Professor; other PhD advisory committees

- Claire Livingston, PhD 1992. Associate Professor, Biology, Paine College. • Arthur C. Beall, PhD 1993 Assistant Professor, Medical College of Georgia. • Mentor, 4 MS recipients. • Member, 24 doctoral research committees, 73-93

Postdoctoral Research Associates:

- 1984-85: Narayanan Parthasarathy, Ph.D.; •1989: Francis McCaffery, M.D.; •1990-92: Stavros Topouzis, Ph.D.

### **TEACHING AT THE UNIVERSITY OF SOUTHERN CALIFORNIA 1969-73**

#### *College of Medicine*

Course Director:

- Anatomy of the Newborn, M3/M4 elective; • Gross Anatomy: coordinator, thorax abdomen [integrated curriculum]; • Embryology; coordinator for all sections [integrated curriculum]

College of Graduate Studies: •Course Director: Histochemistry; • Member, 4 doctoral research committees

## **SELECTED ADMINISTRATIVE, SERVICE, & COMMITTEE ACTIVITIES**

### **University of Nebraska Medical Center**

#### *College of Medicine*

##### Committee / Organization Chair:

1993-94            Chairman, Search Committee, Biochemistry Chair  
 1994-01            Vice Chairman, Cardiovascular Research Committee  
 1998                Chairman, Research Group, AAMC Accreditation Site Visit  
 1998-99            Chairman, Dean's Research Planning Work Group

##### Committee / Organization Member:

1991-01            Faculty Council  
 1994-95            Strategic Plan Steering Committees  
 1995-96            Search Committee, Anesthesiology Chair  
 1995-96            Search Committee, Surgery Chair  
 1996-98            Curriculum Committees  
 2000-01            Search Committee, Neurosciences Chair University

##### Committee / Organization Chair:

1996                Leader, "UNMC Model for the Future", Sponsored Programs Enhancement Team  
 1998-99            Chairman, Search Committee, Director of Molecular Genetics  
 1999-01            Chairman, Steering Committee, Research Center of Excellence

##### Committee / Organization Member:

1992-98            Committee for Protection of Human Subjects in Research (IRB)  
 1996                Model for the Future [MFF] Research and Education Team  
 1996                President's Research and Education Advisory Committee  
 1996-99            Chancellor's Research and Education Advisory Panel  
 1996-97            Chancellor's Sponsored Programs Enhancement Advisory Panel  
 1999-00            Search Committee, Chief Information Officer  
 2000-01            Chancellor's Council  
 2004-05            Search Committee, University Vice-President State of Nebraska Officer  
 1991-01            Vice President and Secretary, State Anatomical Board Member  
 1997-99            American Heart Association, Mid-America Affiliate, Research Committee  
 1999-02            Board of Directors, Nebraska Academy of Sciences National Officer (appointed)  
 1998-99            Auditor, Assoc. of Anatomy, Cell Biology and Neurobiology Chairs (AACBNC) Officer (elected)  
 2002-05            AACBNC Board of Councilors  
 2005                Candidate, President, American Association of Anatomists Member  
 1996-98            AACBNC Committee for Developmental Biology Curriculum  
 2000-02            FASEB / AAA Membership Committee

**GEORGIA (Final 5 Years Only; Chair or Officer Positions Only)***School of Graduate Studies*

Chairman, Faculty Promotions and Tenure

Major Departmental: 87, 89, 90

1986-87 Chairman, Grad. Student Recruitment Committee, Graduate Faculty Senate.

1988-90 Chairman, Student Affairs Committee, Graduate Faculty Senate.

1990-91 Chairman, Faculty Affairs Committee, Graduate Faculty Senate.

School of Medicine 1985-86 Chairman, Curriculum Committee

University 1987-88 Secretary, Faculty Senate.

State of Georgia 1980-87 University of Georgia Board of Regents, Advisory Committee on

Biological Sciences; Chair, Research Equipment Subcommittee; Chair, Environmental Impact Subcommittee

**EDITORIALS**

1980-81 Educational Materials Project Appraisal Panel, AAMC

1981-82 MCAT Academic Advisory Panel

1986, 91 CRC Press, associate editor, New Acquisitions

1997-01 Editorial Board, Cardiovascular Molecular Morphogenesis Series, Birkhauser, Boston

2000-05 Board of Reviewers, The Anatomical Record

2000-05 Editorial Board, Developmental Dynamics

**PROFESSIONAL HONORS & SPECIAL RECOGNITION****Teaching Awards**

1977 Excellence in Teaching Award

Elected by the Class of 1980, Medical College of Georgia (MCG)

1990 Distinguished Faculty Member in Basic Sciences Teaching

Elected by the MCG College of Medicine Faculty Senate

1990 Citation, "Excellence as Director of Histology"

Special recognition by the Dean, MCG College of Medicine

1990 Excellence Award in Graduate Student Mentoring, MCG

Recognized the performance of Rosenquist-mentored graduate students in student research competitions

1997 University of Nebraska, University Wide Departmental Teaching Award, Department of

Cell Biology and Anatomy. \$25,000.

Awards Based on Research and Other Academic Activities

These local awards include consideration of grants, peer reviews chaired, elected offices, visiting professorships, quality of publications, and invited presentations.

1994 Outstanding Academic Achievement

1996 Special Academic Achievement

- 1998 Outstanding Academic Achievement US / International
- 1988 Fogarty Foundation Award for study in Europe, NIH.
- 1995 Distinguished Visiting Professor, University of Medicine, Debrecen, Hungary  
Recognized career achievement in developmental biology; accepted April-May 1998  
Awards Based on Service, Other
- 1975-78; 82-88; 90  
Honorary Faculty Advisor, Graduate Student Association, MCG  
Elected annually by the Graduate Student Association
- 1987 Distinguished Service Award, Faculty of the School of Graduate Studies, MCG  
For development / implementation of a successful student recruitment program
- 1988 Outstanding Faculty Member Award, School of Graduate Studies, MCG  
Recognized long-term service to School Grad Studies & the Graduate Faculty Senate
- 2000 Professional Achievement Award, University of Dubuque Alumni Foundation

#### **ASSOCIATIONS (Symposia, Other)**

- 1971 American Association of Anatomists (AAA) / FASEB  
Chairman, Scientific Sessions, 87th, 88th, 89th and 90th AAA Meetings  
Symposium Organizer & Chair, 2001 AAA / FASEB (also cited above)
- 1975 Georgia Academy of Science
- 1976 The Histochemical Society  
Honorary Chairman and Plenary Lecturer, International Symposium on Quantitative Methods,  
(Recognized the development of methods in atomic absorption technology).
- 1985 Society of the Sigma Xi
- 1993 Society for Developmental Biology
- 1995 Teratology Society, Plenary lecturer, 1998 meeting (also cited above)
- 1999 Nebraska Academy of Sciences. Board of Directors, 99-01

#### **INVITED SYMPOSIA**

##### **PLENARY LECTURES / SYMPOSIUM CHAIR / ORGANIZER**

(National / International Meetings Only, Current 7 yr Only)

- 1997 American Heart Association Annual Meeting, AHA Scientific Conference on  
Gene Nutrient Interactions in Cardiovascular Development, Orlando
- 1998  
2nd International Conference on Homocysteine Metabolism, Neijmegen  
Organization of Teratology Information Services, San Diego  
Teratology Society, March of Dimes Symposium, Gene Environment Interactions  
in Development, San Diego, FASEB Conference on Folate Metabolism, Snowmass
- 1999 Neural Tube Defects 2000, Schlangenbad  
International Conference on Amino Acids, Bonn  
IV International Malpighi Symposium, Roma
- 2000 Centers for Disease Control Conference on Nutrition and Birth Defects, Atlanta

British Nutrition Society Summer Meeting, Cork

2001 FASEB Annual Meeting, Symposium Organizer and Chair, Orlando  
3rd Int'l Conference on Homocysteine Metabolism, Symposium Chair, Sorrento

2004 55TH Nestle Nutrition Workshop, Beijing

### **COMMUNITY SERVICE / ACTIVITIES**

1977-88 Central Savannah River Area (GA-SC) Regional Planning Commission, Transportation Committee.  
1979-87 North Augusta SC Youth Soccer League: Coach, 79-87; Referee, 80-83; Board of Directors, 80-81.  
1980-83 Boy Scouts of America / Cubscouts: Den Leader, Pack leader  
1983-84 Board of Directors, MCG Health Center Credit Union; Vice Chairman, 84  
1984-86 Secretary, Board of Directors, Hammond Hills Assoc., North Augusta, SC.  
1986-88 Administrative Board, Grace Methodist Church, North Augusta, SC  
1987-91 Paralyzed Veterans Association [PVA] Volunteer, Augusta, GA  
1998-01 Elder, Peace Presbyterian Church, Elkhorn, NE  
1993-01 Volunteer, West Douglas County Food Pantry, Douglas County, NE  
1998-01 Co-Director, West Douglas County Food Pantry, Douglas County, NE

### **COMMUNITY HONORS / RECOGNITION**

1987 GA / Carolina Paralyzed Veterans Assoc. "*PVA Appreciation Award*"  
1988 GA / Carolina Paralyzed Veterans Assoc. "*PVA Appreciation Award*"

## PUBLICATIONS

*Includes peer-reviewed chapters (4) and peer-reviewed / invited letters to the editor (2). Does not include books, chapters, reviews and letters that were not peer reviewed. Excludes book reviews, miscellaneous non-peer reviewed papers, and published abstracts. Some older titles are abbreviated.*

1. Shields LM, Rosenquist TH, Conner D, Sansoy OM (1968) Dietary carbohydrate & serum lipids. Rocky Mountain Med J 65:43 46.
2. Rosenquist TH (1970) Ultrastructural changes in plasma membrane of sarcoplasmic reticulum in myocardial cells during hibernation. Cryobiology 7:14 18.
3. Rosenquist TH, Bernick S (1971) Histochemistry of renal basal laminae: Adolescent compared with senescent rats. J Gerontol 26:176 185.
4. Rosenquist TH, Slavin BG, Bernick S (1971) Pearsonsilver gelatin method for light microscopy of plastic sections. Stain Technol 46:253 257.
5. Sobin SS, Fung YC, Tremer H, Rosenquist TH (1972) The elasticity of the pulmonary microvascular sheet in the cat. Circ Res 30:440 450.
6. Schaeffer RC Jr., Bernick S, Rosenquist TH (1972) Histochemistry of venom glands in *Crotalus viridis helleri*. I. Esterases. Toxicon 10:183 186.
7. Schaeffer, Bernick, Rosenquist, Russell FE (1972) Histochemistry of venom glands in *Crotalus viridis helleri*. II. Oxidase, phosphatase. Toxicon 10:295 297.
8. Sobin SS, Rosenquist TH (1973) Determination of dimensions and geometry in fixed specimens. Microvasc Res 5:271 284.
9. Rosenquist TH, Bernick S, Sobin S, Fung YC (1973) The structure of the pulmonary interalveolar microvascular sheet. Microvasc Res 5:199 212.
10. Sobin SS, Bernick S, Tremer H, Rosenquist TH, Lindal R, Fung YC (1974) The fibroprotein network of the pulmonary interalveolar wall. Chest 65[s]:4 5.
11. Rosenquist TH, Rosenquist JW (1974) A procedure for atomic spectroscopy in quantitative histochemistry. J Histochem Cytochem 22:104 109.
12. Rosenquist TH, Rosenquist JW (1974) Changes in aging monkey kidneys measured by atomic absorption spectrophotometry. J Gerontol 29:149 152.

13. Troyer H Rosenquist TH (1975) Atomic absorption spectrophotometry applied to photographic densitometry. *J Histochem Cytochem* 23:941 944.
14. Rosenquist TH (1976) Quantitation in histochemistry: A review of the literature. *Histochem J* 8:205 208.
15. Rosenquist TH (1976) Atomic absorption spectrophotometry in quantitative histochemistry. *Histochem J* 9:127 139.(Invited Review).
16. Rosenquist TH, Oblak TG (1978) PAS reaction on nondiabetic compared with diabetic human dermis. *Histochem J* 10:185 190.
17. Welter DA, Scholer J, Rosenquist TH (1979) Galloxyanin chromalum for electron microscopy of nuclei / critical point drying. *Stain Technol* 53:311 314.
18. Knight RG, Rosenquist TH, Nosek TM (1979) Effects of low  $Ca^{++}$  on the external lamina of cardiac cells. *Proc Soc ExpBiolMed* 161:435 437.
19. Moore PJ, Rosenquist TH (1979) The effect of an intra-uterine device on myometrial glycogen in the hamster. *FertilSteril* 32:115
20. Moore PJ, Rosenquist TH (1979) Some effects of an intrauterine device on glycosaminoglycan of the hamster uterus. *Fertil Steril* 32:120
21. Mattio TG, Rosenquist TH, Kirby ML (1980) Appearance of acid phosphatase in neonatal rat substantia gelatinosa. *Exp Brain Res* 41:411 413.
22. Rosenquist TH (1981) Organization of collagen in the human pulmonary alveolar wall. *Anat Rec* 200:447 459.
23. Rosenquist TH (1981) Improved visualization of oxytalan fibers with resorcin fuchsin. *Basic Appl Histochem* 25:125 132
24. Sickles DW, McLendon RE, Rosenquist TH (1982) Alternative method for quantitative enzyme histochemistry of muscle fibers. *Histochem.* 73:577 588.
25. Rosenquist TH, Stewart D (1983) Measurement of tissue disulfide groups with atomic absorption spectrophotometry. *J Histochem Cytochem* 30:1311 1312.
26. Rosenquist TH, Huff TF (1985) Lectin binding to measure glycosylation. *Histochem* 83:279 284.
27. Rosenquist TH (1985) Evaluation of biology as a pre medical major at the Medical College of Georgia. *Georgia J Science* 43:87 94.

28. Rosenquist TH (1986) A procedure to measure concanavalin A binding with x ray microanalysis and atomic spectroscopy. *Histochem* 84:61 65.
29. Rosenquist TH (1986) The state of quantitative histochemistry: A review and analysis of the literature. *Histochem J* 18:213 216.
30. Rosenquist TH, McCoy JR (1987) A new interpretation of the direct Schiff reaction of elastic tissues. *J Histochem Cytochem* 35:1205 1215.
31. Csukas SR, Rosenquist TH, Mulroy MJ (1987) Connections between individual stereocilia in auditory hair cells. *Hearing Res* 30:147 156.
32. Rosenquist TH, McCoy JR, Waldo K, Kirby ML (1988) Origin & propagation of elastogenesis in the cardiovascular system. *Anat Rec* 221:860 871.
33. Rosenquist TH, McCoy JR (1988) New interpretation of the direct Schiff reaction in elastic tissues, revisited. *J Histochem Cytochem* 36:1209. (invited letter).
34. Rosenquist TH, Kirby ML, van Mierop LHS (1989) Solitary aortic arch III artery syndrome / neural crest nodose placode ablation. *Circulation* 80:1469 1475.
35. Beall AC, Rosenquist TH (1990) Smooth muscle cells of neural crest origin form the aorticopulmonary septum in the avian embryo. *Anat Rec* 226:360 366.
36. Rosenquist TH, Beall AC, Modis L, Fishman R (1990) Impaired elastic matrix in the great arteries after ablation of the cardiac neural crest. *Anat Rec* 226:347 359.
37. Rosenquist TH, Beall AC (1990) Elastogenic cells in the developing cardiovascular system: smooth muscle, neural crest *Ann NY Acad Sci* 588:106 119.
38. Rosenquist TH, Fray Gavalas CA, Waldo K, Beall AC (1990) Development of the musculoelastic septum / avian truncus arteriosus. *Am J Anat* 180:339 356.
39. Rosenquist TH, Modis L (1991) Spatial disorder of collagen in the avian great vessels after ablation of the cardiac neural crest. *Anat Rec* 229:116 124.
40. Hood L, Rosenquist TH (1992) Coronary artery development: origin / deployment / smooth muscle / neural crest ablation. *Anat. Rec* 234:291 300.
41. Topouzis SS, Catravas JD, Ryan J, Rosenquist TH (1992) Endothelial expression / ACE / smooth muscle lineage. *Circulation Res* 71:923 931.
42. Wrenn RW, Raeuber CL, Herman LE, Walton WJ, Rosenquist TH (1993) TGF b signal transduction / PKC/smooth muscle. *In Vitro Cell Dev Bio* 29:73 78.

43. Gadson P, McCoy J, Rossignol C, Rosenquist TH (1994) Expression of elastin, actin, c-jun & smooth muscle lineage. *In Vitro Cell Dev Biol* 29:773 781
44. Thieszen SL, Rosenquist TH (1995) Developmental regulation of decorin & collagen / matrix pattern formation. *Matrix Biology* 14:573 582.
45. Thieszen SL, Dalton ML, Gadson PF, Patterson E, Rosenquist TH (1996) Embryonic vascular smooth muscle / collagen / integrin receptor. *Exp Cell Res* 27:135 145.
46. Rosenquist TH, Ratashak SA, Selhub J (1996) Homocysteine / congenital heart & neural tube defects / folic acid. *Proc Natl Acad Sci USA* 93:15227 15232.
47. Gadson PF, Dalton M, Patterson E, Svoboda D, Hutchinson L, Shram D, Rosenquist TH (1997) TGF beta / c myb / procollagen genes *Exp Cell Res* 30:160 180.
48. Dalton M, Gadson P, Wrenn R, Rosenquist TH (1997) Homocysteine signal cascade / phospholipids / PKC / c fos / c myb / smooth muscle. *FASEB J*.11:703 711.
49. Andaloro, VJ, Monaghan DT, Rosenquist TH (1998) Dextromethorphan / NMDAR antagonists are teratogenic in the avian embryo. *Pediatric Res* 43:1 7.
50. Brown JC III, Rosenquist TH, Monaghan DT (1998) ERK2 activation by homocysteine in vascular smooth muscle cells *Biochem Biophys Res Comm* 251:669 676.
51. Rosenquist TH, Schneider A, Monaghan DT (1999) NMDAR agonists attenuate homocysteine Induced developmental defects *FASEB J* 13:1523-1531.
52. Rosenquist TH. Monaghan DT (2000) Homocysteine & The NMDA Receptor: Are They Keys to Conotruncal Abnormalities? In "Cardiovascular Development", R.Tomanek & R.Runyan, eds. Birkhauser, Boston. pp 221-250
53. Rosenquist TH, Finnell RH (2001) Genes, folate and homocysteine in embryonic development. *Proc Nutr Soc* 60:53-61
54. Barber RC, van Waes JG, Lammer EJ, Shaw GM, Rosenquist TH, Finnell RH (2001) Folic acid and homocysteine as risk factors for neural tube defects. In "Folate and Human Development, EJ Massaro, ed. Humana Press, Totawa NJ (in galley proofs)
55. Finnell, R.H., Gelineau-van Waes, J., Eudy, J.D., and Rosenquist, T.H. (2002) Molecular Basis of Environmentally-Induced Birth Defects. *Ann. Rev. Pharmacol & Toxicol.* 42:181-208.
56. Latacha KE, Rosenquist TH (2002) Homocysteine regulates VEGF expression via its effect on nitric oxide synthesis (in process, Circulation)

57. Rosenquist TH, Schneider A, Finnell R (2002) Valproic acid induced developmental defects and NMDA receptor agonists (submitted)
58. Brauer P, Rosenquist T (2002) Effect of elevated homocysteine on cardiac neural crest migration in vitro. *Developmental dynamics*. Volume 224 Issue 2, Pages 222 – 230.
59. Finnell, R.H., Gelineau-van Waes, J., Eudy, J.D., and Rosenquist, T.H. (2002) Molecular Basis of Environmentally-Induced Birth Defects. *Ann. Rev. Pharmacol & Toxicol.* 42:181-208.
60. Latacha KE, Rosenquist TH (2002) Homocysteine regulates VEGF expression via its effect on nitric oxide synthesis (in process, *Circulation*)
61. Rosenquist TH, Schneider A, Finnell R (2002) Valproic acid induced developmental defects and NMDA receptor agonists (submitted)
62. Barber R, Finnell R, Rosenquist TH, Van-Waes J (2002) Folate and human development. Totowa, N.J.: Humana Press, c2002xii, 359 p.: ill. ; 24 cm
63. Carmichael SL, Finnell RH, Lammer EJ, Nelson V, Rosenquist TH, Shaw GM (2002) Maternal periconceptional vitamins: interactions with selected factors and congenital anomalies? *Epidemiology for* 11/2002; 13(6): 625-30
64. Finnell RH; Shaw GM; Lammer EJ; Brandl KL; Carmichael SL; Rosenquist TH (2004) Gene-nutrient interactions: importance of folates and retinoids during early Toxicol Appl Pharmacol 198: 75-85.
65. Hornstra G, Rosenquist TH, Uauy R, Yang X (2004) The Impact of maternal nutrition on the offspring. Basel; New York: Karger; Vevey, Switzerland: Nestlé Nutrition, c2004 xvi, 256 p.: ill., port. ; 24 cm
66. Finnell R, Rosenquist, TH, Shaw G, Waes J, (2005) Nutrient Effects upon Embryogenesis: Folate, Vitamin A and Iodine. Nestlé Nutrition Workshop Series Pediatric Program, vol 55, pp 29-47
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