

## CURRICULUM VITAE

**NAME** Harry S. Nick

**TITLE** Professor

**ADDRESS** Department of Neuroscience  
College of Medicine, University of Florida  
Box 100244, J. Hillis Miller Health Center (JHMHC)  
Gainesville, FL 32610  
Off: (352) 392-3303  
FAX: (352) 392-6511  
EMAIL: hnick@ufl.edu

**DATE OF BIRTH** April 13, 1955, Youngstown, Ohio

**MARRIED** Spouse: Jerelyn; children: Philip 20; Andrew 18; Allison 11

**EDUCATION**

1984-1985 Postdoctoral Fellow,  
Biogen Research Corporation  
Mentor: **Dr. Walter Gilbert.**

1982-1984 Postdoctoral Fellow,  
Biological Labs,  
Harvard University  
Mentor: **Dr. Walter Gilbert.**

1977-1982 Ph.D. in Chemistry  
Dissertation Advisor: **Dr. Ponzy Lu**  
Department of Chemistry  
University of Pennsylvania  
*Thesis: "Protein-Nucleic Acid Interactions:  
Lactose Operator-Repressor Complexes".*

1973-1977 Bachelor of Arts in Biology and Chemistry  
Hiram College, Hiram, Ohio.

### **PROFESSIONAL EXPERIENCE**

1997-Present Professor, Department of Neuroscience, College of Medicine, University of Florida.

2002-Present President of Board, North Florida Foundation for Research and Education, VA Medical Center

1997-Present Secondary appointment, Department of Medicine, College of Medicine, University of Florida.

1991-Present Dual Appointment, Department of Pediatrics, College of Medicine, University of Florida.

1997-Present Affiliate Professor, Department of Biochemistry and Molecular Biology,  
College of Medicine, University of Florida.

2001-Present Senior Member, University of Florida Cancer Center

1997-Present Member, University of Florida Brain Institute

- 1992-Present Member, Center for Mammalian Genetics, College of Medicine, University of Florida.
- 1997-2002 Board of Directors, North Florida Foundation for Research and Education
- 1990-1997 Associate Professor, Department of Biochemistry and Molecular Biology, College of Medicine, University of Florida.
- 1993-Present Member, Center for Structural Biology, College of Medicine, University of Florida.
- 1985-1990 Assistant Professor, Department of Biochemistry and Molecular Biology College of Medicine, University of Florida.

### **SCHOLARSHIPS, HONORS, AND AWARDS**

- 2002 University of Florida Research Professorship
- 2001 National Institutes of Health **MERIT Award**
- 1998-1999 Faculty Research Prize in Basic Science, College of Medicine, University of Florida
- 1986 Certificate of Distinction in Teaching, Harvard University.
- 1978-1982 Graduate Fellowship; NIH Molecular and Cellular Training Grant.  
University of Pennsylvania
- 1977 Phi Beta Kappa  
Magna Cum Laude  
Alpha Society  
Hiram College Scholarship  
Hiram College

### **PUBLICATIONS**

1. "Lac Operon Operator DNA: Isolation and Trimming for Nuclear Magnetic Resonance Spectroscopy" Lillis, M., Nick, H.S., Caruthers, M., Sadler, J., and Lu, P. **Analytical Biochemistry**. 120, 52-58 (1982).
2. "Lac Repressor-Lac Operator Interactions: Nuclear Magnetic Resonance Observations" Nick, H.S., Arndt, K., Boschelli, F., Jarema, M.A., Lillis, M., Lu, P., Sadler, J. and Caruthers, M. **Proceedings of the National Academy of Sciences** 79, 218-222 (1982).
3. "Repressor-Operator Interactions in the Lac operon II: Observations at the Tyrosines and Tryptophans" Nick, H.S., Arndt, K., Boschelli, F., Jarema, M.A., Lillis, M., Sommer, H., Lu, P., and Sadler, J. **The Journal of Molecular Biology** 161, 417-438 (1982).
4. "Repressor-Operator Interactions in the Lac operon III: Nuclear Magnetic Resonance Observations with Altered Amino-Terminal DNA Binding Domains" Arndt, K., Nick, H.S., Boschelli, F., Lu, P., and Sadler, J. **The Journal of Molecular Biology** 161, 439-457 (1982).
5. "Lambda Phage *cro* Repressor: DNA Sequence Dependent Interactions seen by Tyrosine Fluorescence" Boschelli, F., Arndt, K., Nick, H.S., Zhang, Q., Lu, P., and Takeda, Y. **The Journal of Molecular Biology** 162, 251-266 (1982).

### **PUBLICATIONS** (continued)

6. "Detection *In Vivo* of Protein-DNA Interactions Within the Lac Operon of *E. coli*" Nick, H.S. and Gilbert, W.

**Nature** 313, 795-797 (1985).

7. "Detection of Cytosine Methylation in the Maize Alcohol Dehydrogenase by Genomic Sequencing" Nick, H.S., Bowen, B., Ferl, R., and Gilbert, W. **Nature**, 319, 243-246 (1986).
8. "Architecture of a Plant Promoter: S1 Nuclease Hypersensitive Features of Maize Adh1" Ferl, R. J., Nick, H. S., and Laughner, B. H. **Plant Molecular Biology** 8, 299-307 (1987).
9. "*In Vivo* Detection of Regulatory Factor Binding Sites in the 5' Flanking Region of Maize Adh1" Ferl, R. J. and Nick, H. S. **The Journal of Biological Chemistry** 262, 7947-7950 (1987).
10. "Protein-DNA Interactions *In Vivo* Upstream of a Cell Cycle-Regulated Human H4 Histone Gene" Pauli, U., Chrysogelos, S., Stein, G., Stein, J., and Nick, H.S. **Science** 236, 1308-1311 (1987).
11. "Inducible DNA-Protein Interactions of the Murine Kappa Immunoglobulin Enhancer *In Vivo*: Comparison with In Vitro Interactions" Hromas, R., Pauli, U., Marcuzzi, A., Lafrenz, D., Nick, H.S., Stein, G., and Van Ness, B. **Nucleic Acids Research** 16, 953-967 (1988).
12. "Molecular Cloning of the Type 5, Iron-containing, Tartrate-Resistant Acid Phosphatase from Human Placenta" Ketcham, C.M., Simmen, R.C.M., Roberts, R.M. and Nick, H.S. **The Journal of Biological Chemistry** 264, 557-563 (1989).
13. "*In Vivo* Regulation of a Human H<sub>3</sub> Histone Gene: Detection of Protein-DNA Interactions" Pauli, U., Chrysogelos, S., Stein, G., Stein, J., and Nick, H.S. **Nucleic Acids Research** 17, 2333-2350 (1989).
14. "Localization of the Human Type 5, Tartrate-Resistant Acid Phosphatase Gene by In Situ Hybridization" Allen, B.S., Ketcham, C.M., Roberts, R.M., Nick, H.S., and Ostrer, H. **Genomics** 4, 597-600 (1989).
15. "Regulation of Manganese Superoxide Dismutase by Lipopolysaccharide, Interleukin-1, and Tumor Necrosis Factor". Visner, G.A., Dougall, W.C., Wilson, J.M., Burr, I. and Nick, H.S. **The Journal of Biological Chemistry** 265, 2856-2864 (1990).
16. "Molecular Cloning of an Amino Acid Regulated mRNA (ASI) in Rat Hepatoma Cells". Shay, N.F., Nick, H.S., and Kilberg, M.S. **The Journal of Biological Chemistry** 265, 17844-17848 (1990).
17. "Annexin I Regulation in Response to Suckling and Rat Mammary Cell Differentiation". Horlick, K.R., Ganjianpour, M., Frost, S.C. and Nick, H.S. **Endocrinology** 128, 1574-1579 (1991).
18. "Protein Synthesis-Dependent Induction of Annexin I by Glucocorticoids". Wong, W.T., Frost, S. and Nick, H.S. **The Biochemical Journal** 275, 313-319 (1991).
19. "Mouse Lipocortin I Gene Structure and Chromosomal Assignment: Gene Duplication and the Origins of a Gene Family". Horlick, K., Cheng, I., Wong, W., Wakeland, W. and Nick, H.S. **Genomics** 10, 365-374 (1991).
20. "Regulation of Manganese Superoxide Dismutase in Porcine Pulmonary Artery Endothelial Cells". Visner, G.A., Block, E.R., Burr, I.M., and Nick, H.S. **American Journal of Physiology** 260, L444-L449 (1991).
21. "*In Vivo* Interaction of *E. Coli* lac Repressor N-terminal Fragments with the lac Operator". Khoury, A.M., Nick, H.S. and Lu, Ponzy. **The Journal of Molecular Biology** 219, 623-634 (1991).

**PUBLICATIONS** (continued)

22. "Manganese Superoxide Dismutase: A Hepatic Acute Phase Protein Regulated by Interleukin-6 and

- Glucocorticoids". Dougall, W.C. and Nick, H.S. **Endocrinology** 129, 2376-2384 (1991).
23. "Regulation of Annexin I Expression in Adipogenesis: cAMP-independent Action of Methylisobutylxanthine". Wong, W.T., Nick, H.S. and Frost, S.F. **American Journal of Physiology** 262, C91-C97 (1992).
  24. "Rat Copper/Zinc Superoxide Dismutase Gene: Isolation, Characterization, and Species Comparison". Hsu, J.-L., Visner, G.A., Burr, I.A., and Nick, H.S. **Biochemical Biophysical Research Communications** 186, 936-943 (1992).
  25. "Multiple mRNA Species Generated by Alternate Polyadenylation from the Rat Manganese Superoxide Dismutase Gene", Hurt, J., Hsu, J.-L., Dougall, W.C., Visner, G.A., Burr, I.M., and Nick, H.S. **Nucleic Acids Research** 20, 2985-2990 (1992).
  26. "Acute-Phase Induction of Manganese Superoxide Dismutase in Epithelial Cell Lines". Valentine, J. and Nick, H.S. **Gastroenterology** 103,905-912 (1992).
  27. "Regulation of Manganese Superoxide Dismutase: IL-1 and TNF Induction in Pulmonary Artery and Microvascular Endothelial Cells", Visner, G.A., Chesrown, S.E., Monnier, J., Ryan, U.S. and Nick, H.S. **Biochemical Biophysical Research Communications** 188, 453-462 (1992).
  28. "A Role for Manganese Superoxide Dismutase in Radioprotection of Hematopoietic Stem Cells by Interleukin-1". Eastgate, J., Moreb, J., Suzuki, K., Taniguchi, N., Nick, H.S., Zucali, J.R. **Blood** 81, 639-646 (1993).
  29. "Amplification of the bacA Gene Confers Bacitracin Resistance on *Escherichia coli*". Cain, B.D., Norton, P.J., Eubanks, W., Nick, H.S. and Allen, C.M. **J. Bacteriology** 175, 3784-3789 (1993).
  30. "Enhanced mRNA Content in Response to Amino Acid Starvation for a 73 kDa Protein of the Inner Mitochondrial Membrane". Chiles, T.C., Laine, R.O., Shay, N.F., Handlogten, M.E., Nick, H.S. and Kilberg, M.S. **Biochemical Biophysical Research Communications** 193, 1068-75 (1993).
  31. "Regulation of Inducible Nitric Oxide Synthase mRNA levels by LPS, INF- $\gamma$ , TGF- $\beta$  and IL-10 in Murine Macrophage Cell Lines and Rat Peritoneal Macrophages", Chesrown, S.E., Monnier, J., Visner, G.A. and Nick, H.S. **Biochemical Biophysical Research Communications** 200, 126-134 (1994).
  32. "Isolation and Maintenance of Human Pulmonary Artery Endothelial Cells in Culture Isolated from Transplant Donors. Visner, G.A., Staples, E.D., Chesrown, S.E., Block, E.R., Zander, D.S. and Nick, H.S. **American Journal of Physiology** 267, L406-L413 (1994).
  33. "Glucocorticoids Repress Basal and Stimulated Manganese Superoxide Dismutase Levels in Rat Intestinal Epithelial Cells". Valentine, J.F. and Nick, H.S. **Gastroenterology** 107, 1662-1670 (1994).
  34. "Cytokine Protection of Hematopoietic Stem Cells" Zucali, J.R., Suresh, A., Tung, F., Eastgate, J., Nick, H., and Moreb, J. **Prog. Clin. Biol. Res.** 389, 207-216 (1994).
  35. "Effects of Vasoactive and Inflammatory Mediators on Endothelin -1 Expression in Pulmonary Endothelial Cells". Golden, C.L., Kohler, J.P. and Nick, H.S., and Visner, G.A. **American Journal of Respiratory Cell and Molecular Biology** 12, 503-512 (1995).
  36. "Induction and Immunolocalization of Manganese Superoxide Dismutase Acute Acetic Acid Colitis in the Rat". Tannahill, C.L., Stevenot, S.A., Campbell-Thompson, M., Nick, H.S. and Valentine, J.F. **Gastroenterology** 109, 800-811 (1995).

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37. "Regulation of Manganese Superoxide Dismutase in Glomerular Epithelial Cells: Mechanisms for Interleukin 1 Induction". Gwinner, W., Tisher, C.C., and Nick, H.S. **Kidney International** 48, 354-362 (1995).
38. "Induction of Manganese Superoxide Dismutase in Rat Kidney Mesangial Cells by Heat Aggregated IGG and Interleukin-1 $\beta$ ". Stephanz, G.S., Gwinner, W., Tisher, C.C. and Nick, H.S. **Journal of Experimental Nephrology** 4, 151-158 (1996).
39. "Regulation of Manganese Superoxide Dismutase and Inducible Nitric Oxide Synthase Gene in Rat Neuronal and Glial Cells". Kifle, Y., Monnier, J., Chesrown, S.E., Raizada, M. and Nick, H.S. **Journal of Neurochemistry** 66, 2128-2135 (1996).
40. "Hyperoxia-Responsive Proteins in Rat Pulmonary Microvascular Endothelial Cells". Visner, G.A., Fogg, S., and Nick, H.S. **American Journal of Physiology** 270, L517-L525 (1996).
41. "Colitis and Interleukin 1- $\beta$  Induce MnSOD and iNOS in Rat Myenteric Plexus Neurons". Valentine, J., Tannahill, C.L., Stevenot, S.A., Nick, H.S., Sallustio, J. and Eaker, E. **Gastroenterology** 111, 56-64 (1996).
42. "Catalytic Properties of Human Manganese Superoxide Dismutase". Hsu, J.-L., Hsieh, Y., Tu, C., O'Conner, D., Nick, H.S., Silverman, D.N., **The Journal of Biological Chemistry** 271, 17687-17691 (1996).
43. "Increase of Mn-SOD, but not of Cu/Zn-SOD in Experimental Optic Neuritis", Qi, X., Guy, J., Nick, H.S., Valentine, J., and Rao, N. **Investigative Ophthalmology** 38, 1203-1212 (1997).
44. "Regulation of Manganese Superoxide Dismutase in Primary Cultures of Colonic Smooth Muscle Cells". Tannahill, C., Stevenot, S.A., Eaker, E., Valentine, J.F. and Nick, H.S. **American Journal of Physiology** 272, G1230-G1235 (1997).
45. "Identification of Urokinase as a Hyperoxia-Inducible Gene". Juul, S.E., Nick, H.S. and Visner, G.A. **Molecular Genetics and Metabolism** 63, 295-301 (1998).
46. "Probing the Active Site of Human Manganese Superoxide Dismutase: The Role of Glutamine 143" Hsieh, Y., Guan, Y., Tu, C. Bratt, P.J., Angerhofer, A. Lepock, J.R., Hickey, M.J., Tainer, J.A., Nick, H.S. and Silverman, D.N. **Biochemistry** 37, 4731-4739 (1998).
47. "The Crystal Structure of Y34F Mutant Mitochondrial Manganese Superoxide Dismutase and the Functional Role of Tyrosine 34" Guan, Y., Hickey, M.J., Borgstahl, G. Hallewell, R.A. Lepock, J.R., Hsieh, Y., Nick, H. S., Silverman, D.N. and Tainer, J.A. **Biochemistry** 37, 4722-4730 (1998).
48. "Thrombin Regulation of Endothelin-1 Gene in Isolated Pulmonary Endothelial Cells" Golden, C.L., Nick, H.S. and Visner, G.A. **American Journal of Physiology** 274, L854-L863 (1998).
49. "Linoleyl Hydroperoxide Transcriptionally Upregulates Heme Oxygenase-1 Expression in Human Renal Epithelial and Aortic Endothelial Cells" Agarwal, A., Shiraiishi, F., Visner, G.A., Nick, H.S. **J. American Society of Nephrology** 9, 1990-1997 (1998).
50. "*In Vivo* Architecture of an Inducible TATA- and CAAT-less Promoter: LPS and Cytokine Regulation of the Rat Manganese Superoxide Dismutase Gene" Kuo, S., Chesrown, S.E., Mellott, J. K., Hsu, J.L., and Nick, H.S. **The Journal of Biological Chemistry** 274, 3345-3354 (1999).
51. "Effects of Glucocorticoids on Cytoplasmic Phospholipase A<sub>2</sub> Expression in Epithelial and Fibroblast Cells". Dolan-O'Keefe, M. and Nick, H.S. **Gastroenterology** 6, 855-864 (1999).

**PUBLICATIONS** (continued)

52. "Iron Regulates Hyperoxia-Dependent Human Heme Oxygenase-1 Gene Expression in Human Pulmonary Endothelial Cells" Fogg, S., Agarwal, A., Nick, H.S. and Visner, G.A. **American Journal of Respiratory Cell and Molecular Biology** 20, 797-804 (1999).
53. "Transcriptional Regulation of the Human Asparagine Synthetase Gene by Carbohydrate Availability" Barbosa-Tessmann, I.P., Nick, H.S. Schuster, S. and Kilberg, M.S. **The Biochemical Journal** 339, 151-158 (1999).
54. "Characterization of the Product Inhibited Complex in Catalysis of Human Manganese Superoxide Dismutase" Hearn, A.S., Tu, C., Nick, H.S., and Silverman, D.N. **The Journal of Biological Chemistry** 274, 24457-60 (1999).
55. "Interrupting the Hydrogen-Bond Network at the Active Site of Human Manganese Superoxide Dismutase" Ramilo, C.A., Leveque, V., Guan, Y., Lepock, J.R., Tainer, J.A., Nick, H.S., and Silverman, D.N. **The Journal of Biological Chemistry** 274, 27711-6 (1999).
56. "Activation of the Unfolded Protein Response Pathway Induces Human Asparagine Synthetase Gene Expression" Barbosa-Tessmann, I.P., Chen, C., Zhong, C., Schuster, S.M., Nick, H. S., Kilberg, M. S. **The Journal of Biological Chemistry** 274, 31139-31144 (1999).
57. "Role of Tryptophan 161 in Catalysis by Human Manganese Superoxide Dismutase", Cabelli, D.E., Guan, Y., Leveque, V., Tainer, J.A., Nick, H.S., and Silverman, D.N. **Biochemistry** 38, 11686-11692 (1999).
58. "Transcriptional Regulation and Structural Organization of the Human Cytosolic Phospholipase A<sub>2</sub> Gene" Dolan-O'Keefe, M., Chow, V., Monnier, J., Visner, G.A., and Nick, H.S. **American Journal of Physiology** 278, L649-L657 (2000).
59. "A Cytokine-Inducible Enhancer with Promoter Activity in Both the Rat and Human Manganese Superoxide Dismutase Genes" Rogers, R.J., Chesrown, S.E., Kuo, S., Monnier, J.M., and Nick, H.S. **Biochemical Journal** 347, 233-242 (2000).
60. "Heme Oxygenase-1 Gene Ablation or Overexpression Modulates Cisplatin-Induced Renal Tubular Apoptosis" Shiraishi, F., Curtis, L.M., Truong, L., Poss, K., Visner, G.A., Madsen, K., Nick, H.S., and Agarwal, A. **American Journal of Physiology** 278, F726-36 (2000).
61. "Multiple Replacements of Glutamine 143 in Human Manganese Superoxide Dismutase: Effects on Structure, Stability, and Catalysis" Leveque, V., Stroupe, M.E., Lepock, J.R., Cabelli, D.E., Tainer, J.A., Nick, H.S., and Silverman, D.N. **Biochemistry** 39, 7131-7137 (2000).
62. "Activation of the Human Asparagine Synthetase Gene by the Amino Acid Response and Unfolded Protein Response Pathways is Mediated by Common Genomic Sequences." Barbosa-Tessmann, I.P., Chen, C., Zhong, C., Schuster, S.M., Nick, H.S., and Kilberg, M.S. **The Journal of Biological Chemistry** 275, 26976-26985 (2000).
63. "Smad7-dependent Regulation of Heme Oxygenase-1 by Transforming Growth Factor- $\beta$  in Human Renal Epithelial Cells" Hill-Kapturczak, N., Truong, L., Thamilselvan, V., Visner, G.A., Nick, H.S. and Agarwal, A. **The Journal of Biological Chemistry** 275, 40904-40909 (2000).
64. "Geneticin Induces Endogenous Heme Oxygenase-1 Expression: Implication in Transfection Studies" Shiraishi, F., Visner, G.A., Nick, H.S., and Agarwal, A. **Analytical Biochemistry** 289, 303-305 (2001).

**PUBLICATIONS** (continued)

65. "Efficient Ex Vivo Transduction of Pancreatic Islet Cells With Recombinant Adeno-Associated Virus Vectors" Flotte, T., Agarwal, A., Chesnut, K. Afione, S., Loiler, S., Wasserfall, C., Kapturczak, M., Ellis, T., Nick, H.S., and Atkinson, M. **Diabetes** 50, 515-520 (2001).
66. "Cytokine-induced Changes in Chromatin Structure and *In Vivo* Footprints in the Human Inducible Nitric Oxide Synthase Promoter: Comparison Between Lung and Liver Epithelial Cells" Mellott, J.K., Nick, H.S., Waters, M.F., Billiar, T., Geller, D.A. and Chesrown, S.E. **American Journal of Physiology** 280, L390-L399 (2001).
67. "TNF-alpha selectively induces MnSOD expression via mitochondria-to-nucleus signaling whereas IL-1 $\beta$  utilizes an alternative pathway." Rogers, R.J., Monnier, J.M., and Nick, H.S. **The Journal of Biological Chemistry** 276, 20419-20427 (2001).
68. "Redox Properties of Human Manganese Superoxide Dismutase and Active-Site Mutants" Leveque, V., Vance, C.K., Nick, H.S., and Silverman, D.N. **Biochemistry** 40, 10586-10591 (2001).
69. "A Coding Region Determinant of Instability Regulates Levels of Manganese Superoxide Dismutase mRNA" Davis, C., Monnier, J., and Nick, H.S. **The Journal of Biological Chemistry** 276:37317-26 (2001).
70. "Manganese Superoxide Dismutase Attenuates Cisplatin-induced Renal Injury: Importance of Superoxide" Davis, C.A., Nick, H.S., and Agarwal, A. **J Am Soc Nephrol** 12:2683-90 (2001).
71. "Kinetic Analysis of Product Inhibition in Human Manganese Superoxide Dismutase" Hearn, A.S., Stroupe, M.E., Cabelli, D.E., Leveque, V., Lepock, J.R., Tainer, J.S., Nick, H.S., and Silverman, D.N. **Biochemistry** 40:12051-8 (2001).
72. "Heme Oxygenase-1 Gene Induction by Curcumin in Human Proximal Tubule Cells" Hill-Kapturczak, N. Thamilselvan, V., Liu, F., Nick, H.S., and Agarwal, A. **Am J Physiol Renal Physiol** 281:F851-9 (2001).
73. "Transduction of Human and Mouse Pancreatic Islet Cells Using a Bicistronic Recombinant Adeno-associated Viral Vector. Kapturczak M, Zolotukhin S, Cross J, Pileggi A, Molano RD, Jorgensen M, Byrne B, Flotte TR, Ellis T, Inverardi L, Ricordi C, Nick H, Atkinson M, Agarwal A. **Molecular Therapy** 5:154-160 (2002).
74. "Regulation of Manganese Superoxide Dismutase During Acute Spinal Cord Injury" Earnhardt, J.N., Streit, W.J., Anderson, D.K., and Nick, H.S., **Journal of Neurotrauma** 19: 1065-79 (2002)
75. "PIN\*POINT Analysis on the Endogenous Manganese Superoxide Dismutase Promoter: Specific Demonstration of Sp1 Binding *In Vivo*" Kuo, S., Chokas, A.L., Rogers, R.J., and Nick, H.S. **Am J Physiol Cell Physiol.** 284(2):C528-34 (2003).
76. "Adeno-associated virus mediated interleukin-10 gene therapy inhibits diabetes recurrence in syngeneic islet cell transplantation of NOD mice" Zhang, Y.C., Pileggi, A., Agarwal, A., Molano, R.D., Powers, M., Brusko, T., Wasserfall, C., Goudy, K., Zahr, E., Poggioli, R., Scott-Jorgensen, M., Campbell-Thompson, M., Crawford, J.M., Nick, H.S., Flotte, T., Ellis, T. M., Ricordi, C., Inverardi, L. and Atkinson, M.A. **Diabetes** 52:708-716 (2003).
77. "Catalytic and Structural Effects of Amino-Acid Substitution at His 30 in Human Manganese Superoxide Dismutase: Insertion of Val C $\gamma$  into the Substrate Access Channel" Hearn A.S., Stroupe, M.E., Cabelli, D. E., Ramillo, C. A., Luba, J.P., Tainer, J.A., Nick, H. S., and Silverman, D. N. **Biochemistry** 42:2781-9 (2003).
78. "A cis-acting region regulates oxidized lipid-mediated induction of the human heme oxygenase-1 gene in

endothelial cells” Hill-Kapturczak N., Voakes C., Garcia J., Visner G.A., Nick H.S., and Agarwal A. In press **Arteriosclerosis, Thrombosis and Vascular Biology**.

79. “An internal enhancer regulates heme and cadmium-mediated induction of human heme oxygenase-1” Hill-Kapturczak, N., Sikorski, E., Voakes, C., Garcia, J., Nick, H.S. and Agarwal, A. In press **Am J Physiol Renal Physiol**.

### **MANUSCRIPTS IN PREPARATION**

1. “In Vivo Footprint Analysis of the Murine Inducible Nitric Oxide Synthase Promoter in Primary Astrocyte Culture” Waters, M.F., Mellott, J.K., Monnier, J., Raizada, M., Chesrown, S.E., and Nick, H.S. to be submitted to **Journal of Molecular and Cellular Neuroscience**.
2. “Iron Homeostasis in Spinal Cord Injury” Earnhardt, J.N., Agarwal, A., Streit, W.J., Anderson, D.K., and Nick, H.S. to be submitted to **Journal of Molecular and Cellular Neuroscience**.
3. “A Site-Directed Mutant of Manganese Superoxide Dismutase with Potent Anti-tumor Activity” Davis, C.A. Hearn, A.S., Agarwal, A., Fletcher B., Zucali, J.R. and Nick, H.S. to be submitted to **The Journal of Biological Chemistry**.

### **REVIEW ARTICLES**

1. "A Potential Cytoprotective Mechanism in the Colon: Regulation of Manganese Superoxide Dismutase", Nick, H.S., Valentine, J.F. *Progress in Inflammatory Bowel Disease*. **CCFA 15**, 8-11 (1994).
2. "Renal Response to Tissue Injury: Lessons from Heme Oxygenase-1 Gene Ablation and Expression", Agarwal, A., and Nick, H.S., **J. American Society of Nephrology**, *Science Watch* 11, 965-973 (2000).

### **BOOK CHAPTERS**

1. **Recombinant DNA - Proceedings of the Third Cleveland Symposium on Macromolecules** Cleveland, Ohio (Editor, A. G. Walton) "Genetic Manipulations of Nuclear Spin Labels in the Lactose Operon Repressor" Lu, P., Arndt, K., Boschelli, F., Jarema, M. A., Lillis, M., Nick, H.S., and Miller, J. (1982).
2. "Cell Cycle-Dependent Human Histone Genes: Their Organization and Regulation". Stein, G., Stein, J., Chrysogelos, S., Dell'Orco, R., Hickey, E., Kroeger, P., Morris, T., Nick, H.S., Pauli, U., van Wignen, A., Weber, L., and Zambetti, G. **Histones and Other Basic Nuclear Proteins**. Editors, Hnilica, L.S., Stein, G.S., and Stein, J.L. CRC Press *in* *The Biochemistry and Molecular Biology of the Cell Nucleus*. CRC Press, Inc. Boca Raton, Florida (1989).
3. “Inflammatory Regulation of Manganese Superoxide Dismutase”. Valentine, J.F., and Nick, H.S. *in* **Reactive Oxygen Species in Biological Systems. An Interdisciplinary Approach**. Editors, Gilbert, D.L. and Kolton, C.A. Plenum Publishing Corp., New York, N.Y. (1998).
4. “Heme Oxygenase-1, Inflammation and Atherosclerosis”. Agarwal, A., Hill-Kapturczak, N., and Nick, H.S. *in* **Inflammatory and Infectious Basis of Atherosclerosis**, Editor, Mehta, J., Birkhäuser Verlag, Basel, Switzerland, (2000).
5. “Catalytic pathway of manganese superoxide dismutase by direct observation of superoxide.”. Silverman, D.N., and Nick, H.S. *in* **Superoxide Dismutase**, Editor, Packer, L., **Methods in Enzymology 2002; 349:61-74**.

### **PATENTS**

Issued US Patent Application Serial No. 08/827,521

Materials and Methods for Inhibiting Bacterial Cell Wall BiosynthesisCo-Inventors: **Harry S. Nick** and Charles Allen

Issued U.S. Patent Application Serial No. 08/927,230

Novel Human Manganese Superoxide Dismutase ProteinsCo-Inventors: **Harry S. Nick** and David Silverman

Pending- U.S. Provisional Patent Application Docket No. UF-209P

Materials and Methods for Preventing Cellular Injury in Humans and AnimalsCo-Inventors: Anupam Agarwal, **Harry S. Nick**, and Gary A. Visner

Pending- U.S. Provisional Patent Application Serial No. 60/110,334

Promoter-Enhancer Compositions and Methods for Promoting Gene ExpressionCo-Inventors: Richard J. Rogers, **Harry S. Nick**, and John Valentine**TEACHING EXPERIENCE**

| DATE        | COURSE  | HOURS |
|-------------|---|-------|
| Spring 2002 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 2001 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 2000 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1999 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1998 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1997 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1996 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Fall 1996   | Interdisciplinary Program, Molecular Biology and Genetics.  | 24    |
| Spring 1995 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1994 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1993 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 22    |
| Spring 1992 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 11    |
| Spring 1991 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 11    |
| Fall 1990   | BCH 6415, Advanced Molecular and Cellular Biology.  | 11    |
| Spring 1990 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 11    |
| Fall 1989   | BCH 6206, Advanced Metabolism.  | 6     |
| Spring 1989 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 9     |
| Fall 1988   | BCH 6415, Advanced Molecular and Cellular Biology.  | 5     |
| Spring 1988 | BCH 5204, Medical-Biochemistry, Medical Molecular Biology.  | 5     |
| Fall 1987   | BCH 6415, Advanced Molecular and Cellular Biology.  | 4     |
| Spring 1987 | BMS 5204, Medical-Biochemistry, Medical Molecular Biology.  | 9     |
| Spring 1986 | BCH 6415, Advanced Molecular and Cellular Biology.  | 2     |
| Spring 1986 | BCH 4413, Honors Undergraduate Molecular Biology, Course Coordinator.                               | 14    |
| Fall 1984   | Technique Course: Genomic Sequencing, Institute fur Zell-Und Tumorbologie and ZMBH Heidelberg, FRG. |       |
| 1983-1985   | Harvard University, Board of Tutors; Dept. of Biochemistry and Molecular Biology.                   |       |

## **JOURNAL REVIEW**

Editorial Board: American Journal of Respiratory Cell and Molecular Biology

Journal of Clinical Investigation (Ad hoc)

American Journal of Physiology (Ad hoc)

Journal of Neuroscience (Ad hoc)

Free Radical Biology and Medicine (Ad hoc)

## **GRANT REVIEW**

| <b>POSITION</b>            | <b>AGENCY</b>   | <b>STUDY SECTION</b>                                     | <b>DATES</b>     |
|----------------------------|---|--|------------------|
| <u>Reviewer</u>            | National Institutes of Health   | Program Project Review                                   | 2002             |
| <u>Ad hoc Reviewer</u>     | National Institutes of Health   | Special Study Section                                    | 2000             |
| <u>Reviewer</u>            | National Institutes of Health,<br>Heart, Lung, and Blood Institute              | Functional Genomics<br>Applications                      | 2000             |
| <u>Reviewer</u>            | National Institutes of Health,<br>Heart, Lung, and Blood Institute              | Program Project Review                                   | 2000             |
| <u>Charter Member</u>      | American Lung Association   | Lung Biology   | 1999-<br>present |
| <u>Reviewer</u>            | NASA<br>International Space Life Sciences                                       | Cell and Molecular Biology<br>Ground Base Research Panel | 1999             |
| <u>Reviewer</u>            | NASA<br>International Space Life Sciences                                       | Cell and Molecular Biology<br>Flight Research Panel      | 1999             |
| <u>Ad hoc Reviewer</u>     | National Institutes of Health   | Study Section: Lung Biology<br>and Pathology             | 1998             |
| <u>Reviewer</u>            | NASA<br>International Space Life Sciences                                       | Cell and Molecular Biology<br>Panel                      | 1997             |
| <u>Reviewer</u>            | University of California  | Tobacco Related Research                                 | 1997             |
| <u>Reviewer</u>            | Arizona Disease Control<br>Research Commission                                  | Tobacco Related Research                                 | 1997 and<br>1998 |
| <u>Ad hoc Reviewer</u>     | National Institutes of Health   | Special Study Section                                    | 1996             |
| <u>Chairman</u>            | National Institutes of Health   | <u>Ad hoc Study Section</u>                              | 1996             |
| <u>Charter Member</u>      | National Institutes of Health   | Study Section: Lung Biology<br>and Pathology             | 1992-1996        |
| <u>Ad hoc Reviewer</u>     | National Institutes of Health,<br>Heart, Lung, and Blood Institute              | Program Project Review                                   | 1996             |
| <u>Ad hoc Reviewer</u>     | Veterans Administration   | Merit Review Award                                       | 1994-1995        |
| <u>Ad hoc Review Group</u> | National Institutes of Health,<br>Diabetes and Digestive and<br>Kidney Diseases | Program Project, Site Visit Team                         | 1992             |
| <u>Ad hoc Reviewer</u>     | National Institutes of Health   | Study Section: Lung Biology<br>and Pathology             | 1991             |

## **INVITED SEMINARS**

| <b>LOCATION</b>  | <b>HOST</b>       | <b>DATE OF VISIT</b> |
|--|-------------------|----------------------|
| Pulmonary Scholar, Program run in cooperation<br>with UNC, Duke, NCSU, EPA and NIEHS | Dr. Kenneth Adler | Fall 2002            |

| <b>LOCATION</b>   | <b>HOST</b>   | <b>DATE OF VISIT</b> |
|---|---|----------------------|
| Dept. of Biochemistry and Molecular Genetics<br>University of Alabama, Birmingham, AL                   | Drs. Tim Townes and Bruce<br>Freeman  | June, 2003           |
| Visiting Pulmonary Scholar<br>Duke, NCSU, UNC, EPA and NIEHS  | Combined Faculty  | Fall, 2002           |
| North Carolina State Univ   | Dr. Barbara Sherry  | Fall 2001            |
| North Carolina State Univ   | Dr. Kenneth Adler   | Spring 2001          |
| Johns Hopkins University<br>Pulmonary Division  | Dr. Joe Garcia  | Spring 1999          |
| Second International Meeting on Oxygen/Nitrogen<br>Radicals and Cellular Injury                         | Invited Keynote Speaker, Dr. Ken<br>Adler, Robert Devlin,                   | September, 1997      |
| Third Symposium on Redox Regulation of Gene<br>Expression, LSU Medical Center                           | Dr. Matthew Grisham   | June 1997            |
| American Lung Association/American Thoracic<br>Society, International Conference, San Francisco,<br>Ca. | Invited Speaker, Epithelial<br>Transcriptional Signaling in<br>Inflammation | Spring 1997          |
| Tulane University Cancer Center<br>New Orleans, LA  | Dr. Roy Weiner, M.D.<br>Cancer Center Director                              | Spring, 1995         |
| Gordon Research Conference<br>Oxygen Radicals in Biology, Ventura, CA                                   | Dr. Matthew Grisham   | February, 1996       |
| Department of Microbiology and Cell Science,<br>University of Florida, Gainesville, FL                  | Dr. Robert Schmidt  | 1995                 |
| Department of Animal Sciences<br>University of Florida, Gainesville, FL                                 | Dr. Bill Thatcher   | 1995                 |
| Washington University<br>Dept. of Medicine, St. Louis, MO   | Dr. Michael Holtzman, M.D.<br>Chief, Pulmonary Division                     | Spring, 1995         |
| Ciba-Geigy Corp.<br>Plant Biotechnology Division.<br>Research Triangle Park, NC                         | Dr. John Ryals<br>Research Director   | Spring, 1995         |
| Section of Gastroenterology<br>Dept. of Medicine, University of Chicago                                 | Dr. Eugene B. Chang   | Spring, 1994         |
| College of Veterinary Medicine<br>North Carolina State University, Raleigh, NC                          | Dr. Kenneth Adler   | Spring, 1993         |
| Divn. of Pulmonology<br>Duke University, College of Medicine  | Dr. James Crapo   | Spring, 1993         |
| Dept. of Anesthesiology and Pediatrics, University<br>of Alabama, Birmingham, AL                        | Dr. Bruce Freeman   | Fall, 1992           |
| Dept. of Pediatrics<br>University of Cincinnati   | Dr. Jeffrey Whitsett  | Fall, 1992           |
| T-Cell Sciences, Boston, MA   |   | Fall 1992            |
| FASEB Summer Research Conference<br>Copper Mountain, CO   | Micronutrients: Trace Elements  | July, 1989           |

| LOCATION  | HOST  | DATE OF VISIT                      |
|---|---|------------------------------------|
| Dept. Of Cell Biology<br>Vanderbilt University, Nashville, TN                 | Dr. Ian Burr                                    | Fall, 1988                         |
| Dept. Of Molecular Genetics<br>University of Texas Health Science, Dallas, TX | Dr. Joseph L. Goldstein<br>Dr. Michael S. Brown | Visiting Professor<br>Summer, 1988 |
| Dept. Of Molecular Genetics<br>Baylor College of Medicine, Houston, TX        | Dr. Thomas Caskey                               | Fall, 1987                         |

### **GRADUATE STUDENT TRAINING**

| <b><u>Student</u></b>   | <b><u>Thesis Title</u></b>   | <b><u>Status</u></b>  |
|---|--|---|
| Catherine M. Ketcham<br>(Co-Chairman with<br>Dr. R. M. Roberts<br>University of Missouri) | Ph.D. June, 1988<br>Molecular Characterization<br>of the Human Type 5 Acid<br>Phosphatases   | Research Assistant Professor<br>Department of Biochemistry<br>Univeristy of Florida |
| Neil F. Shay<br>(Co-Chairman with<br>Dr. M. S. Kilberg)                                   | Ph.D. July, 1990<br>Identification of Amino Acid<br>Starvation Induced mRNAs in<br>Fao Rat Hepatoma Cells  | Assistant Professor<br>Dept. of Human Nutrition<br>University of Illinois           |
| Kenneth R. Horlick  | Ph.D. October, 1990<br>Genomic Cloning and Tissue-<br>Specific Expression of Lipocortin I  | United States Patent Office<br>Biotechnology Patent Officer                         |
| William C. Dougall  | Ph.D. October, 1990<br>The Rat Manganese Superoxide<br>Dismutase Gene: Cloning and<br>Gene Regulation  | Immunex<br>Staff Scientist<br>Seattle, WA   |
| William T. Wong   | Ph.D. November, 1990<br>Mouse Lipocortin I: cDNA<br>Cloning and Regulation of<br>Gene Expression   | National Institutes of Health<br>National Dental Inst.<br>Staff Scientist           |
| Jan-Ling Hsu  | Ph.D. December, 1993<br>Characterization of Rat Copper/<br>Zinc Superoxide Dismutase Gene<br>and Chromatin Structure Analysis of<br>Rat Manganese Superoxide Dismutase | Housewife and Mother  |
| Sarah E. Chesrown, M.D.   | Ph.D. December 1994<br>Regulation of Rat Manganese<br>Superoxide Dismutase in<br>Pulmonary Epithelial Cells  | Associate Professor<br>Dept. of Pediatrics<br>University of Florida                 |
| Maureen Dolan Ph.D.   | April 1996<br>Regulation of Cytoplasmic<br>Phospholipase A <sub>2</sub> by<br>Glucocorticoids and Inflammatory<br>Mediators  | Research Assistant Professor<br>Virginia Tech University                            |

**Student**

**Thesis Title**

**Status**

|  |   |   |
|--|---|---|
| Cynthia Tannahill  | M.S. July, 1997<br>Role of Superoxide Dismutases in<br>Acute Colonic Inflammation   | Research Scientist<br>Dept. Surgery<br>University of Florida                            |
| Catherine Golden<br>(Co-Chairman<br>Dr. G. Visner)                   | Ph.D. June 1996<br>Thrombin- and Cytokine-<br>Dependent Regulation of Human<br>Endothelin-1 Gene Expression                   | Science Revenue Manager<br>Ingenuity Systems<br>Alviso, CA                              |
| Shiuh-Yang Kuo   | Ph.D. June, 1998<br><i>In Vivo</i> Footprint Analysis<br>of the MnSOD Gene  | Post-Doctoral Fellow<br>Princeton University<br>Dr. Laura Landweber                     |
| Michael Waters   | Ph.D. August, 1998<br>Regulation of the Inducible<br>Nitric Oxide Synthase Gene in Murine<br>Macrophages and Brain Astrocytes | Residency<br>UCLA, Neurology  |
| Vincent Leveque<br>(Co-mentor, Dr. David<br>Silverman, Pharmacology) | Ph.D. August 2000<br>Probing the Active Site of Human<br>MnSOD  | Staff Scientist<br>Hoffman La Roche<br>San Francisco, CA                                |
| Richard Rogers, M.D.   | Ph.D. August 2000<br>Characterization of a Cytokine-<br>Dependent Enhancer Element in<br>the Rat MnSOD Gene                   | Assistant Professor<br>Department of Anesthesiology<br>University of Florida            |
| Jane Mellott, M.D.<br>(co-mentor,<br>Dr. Sarah E. Chesrown)          | Regulation of the Human<br>Inducible Nitric Oxide synthase<br>Gene  | Ph.D. in Progress   |
| Chris Davis  | Ph.D. April 2000<br>Identification of Cis-acting<br>Sequences Which Regulate<br>MnSOD mRNA Half-life                          | Post-doctoral Fellow<br>Dr. Eric Olson<br>University of Texas Southwestern<br>Dallas TX |
| Ann Chokas   | Characterization of a Cytokine-<br>Dependent Enhancer Element in<br>the Rat MnSOD Gene  | Ph.D. in Progress   |
| John-David Herlihy   | Molecular Regulation of Human<br>cPLA <sub>2</sub>  | Ph.D. in Progress   |
| Kim Aiken  | Characterization of Cis-acting<br>Sequences Which Regulate<br>MnSOD mRNA Half-life  | Ph.D. in Progress   |

### **POSTDOCTORAL AND CLINICAL RESEARCH FELLOWS**

#### **Postdoctoral/Clinical Fellows**

Dr. Gary Visner, D.O.  
Pediatric Pulmonology Fellow  
NIH Postdoctoral Fellow

#### **Date**

7/88-7/90

#### **Status**

Associate Professor, Chief  
Division of Pediatric Pulmonary  
University of Florida

#### **Postdoctoral/Clinical Fellows**

#### **Date**

#### **Status**

|  |              |  |
|--|--------------|--|
| Dr. Jerry Stephanz, M.D.<br>Nephrology Fellow                                    | 7/88-7/90    | Nephrologist<br>Wichita, Kansas  |
| Dr. John Valentine, M.D.<br>Gastroenterology Fellow<br>Gastroenterology          | 8/88-8/91    | Associate Professor, VA Chief<br>Dept. of Medicine,<br><br>University of Florida     |
| Dr. Teresa Watts, M.D.<br>Pediatric Pulmonology Fellow                           | 3/89-3/91    | Pediatric Pulmonologist<br>West Palm Beach, FL                                       |
| Dr. Wilfried Gwinner, M.D.<br>Nephrology Fellow                                  | 8/90-4/92    | Assistant Professor<br>Division of Nephrology<br>Univ.of Hanover Hanover, Germany    |
| Dr. Victor Araya, M.D.<br>Gastroenterology Fellow<br>NIH Postdoctoral Fellow     | 8/92-7/94    | Assistant Professor<br>Hepatology & Transplantation<br>University of Pittsburgh      |
| Dr. Yemiserach Kifle, M.D.<br>Pediatric Pulmonology Fellow                       | 11/92-12/94  | Clinical Instructor<br>Department of Pediatrics UCSF                                 |
| Dr. Jan-Ling Hsu, Ph.D.  | 12/93-1/96   | Housewife and Mother   |
| Dr. Gary Belcaster<br>Gastroenterology Fellow<br>(Co-mentor, Dr. John Valentine) | 8/94-7/95    | Private Practice<br>Gastroenterology   |
| Dr. Anupam Agarwal, M.D.<br>Nephrology Fellow                                    | 6/95-7/96    | Associate Professor, Acting Chief<br>Division of Nephrology<br>University of Florida |
| Dr. Virginia Chow, Ph.D.   | 8/97-7/99    | Lecturer<br>Sante Fe Community College   |
| Dr. Fumie Shiraishi., M.D.<br>(Co-mentor Dr. Anupam Agarwal)                     | 1998-2000    | Assistant Professor Anesthesiology<br>Kumamoto University<br>Japan                   |
| Dr. Shih-Yang Kuo, Ph.D.   | 8/98-5/01    | Post-Doctoral Fellow<br>Princeton University<br>Dr. Laura Landweber                  |
| Dr. Nicole Earnhardt, Ph.D.  | 9/98-1/01    | Assistant Research Professor<br>Department of Neuroscience<br>University of Florida  |
| Dr. Amy Hearn, Ph.D.   | 8-01-Present | Training in Progress<br>American Lung Association Fellow                             |

### **GRANT SUPPORT**

| <b>FUNDING<br/>AGENCY</b> | <b>GRANT TITLE</b> | <b>PI</b> | <b>CO-PI</b> | <b>Term</b> | <b>Effort</b> | <b>Direct<br/>Costs</b> |
|---------------------------|--------------------|-----------|--------------|-------------|---------------|-------------------------|
|---------------------------|--------------------|-----------|--------------|-------------|---------------|-------------------------|

| <b>FUNDING AGENCY</b>                                       | <b>GRANT TITLE</b>  | <b>PI</b>   | <b>CO-PI</b>           | <b>Term</b> | <b>Effort</b> | <b>Direct Costs</b> |
|---|---|-------------|------------------------|-------------|---------------|---------------------|
| Division of Sponsored Research, University of Florida       | Tissue Specific Expression of Lipocortin  | <u>Nick</u> |                        | 5/86-4/87   | --            | \$21,145            |
| CIBA-GEIGY Corp.  | Regulation of Induced Resistance Genes in Tomato  | Nick        |                        | 7/86-7/88   | --            | \$70,000            |
| National Institutes of Health R01 AR37353                   | Molecular Mechanisms for Lipocortin Gene Expression   | Nick        |                        | 7/87-6/91   | 15%           | \$308,006           |
| American Cancer Society, Florida Division                   | <i>In Vivo</i> Detection of Regulatory Proteins Coordinating the Expression of the Oncogene, C-Myc              | Nick        |                        | 6/87-7/88   | 20%           | \$12,000            |
| National Institutes of Health RO1 HD21980 Subcontract       | Lysosomal and Secreted Iron Containing Acid Phosphatases  | Roberts     | Nick                   | 7/88-7/90   | 10%           | \$62,428            |
| National Institutes of Health                               | Structural Analysis of I Region Variance  | Wakeland    | Nick                   | 10/89-9/90  | 5%            | \$806,039           |
| National Institutes of Health RO1 HL39593                   | Molecular Biology of the Superoxide Dismutases  | Nick        |                        | 10/87-9/92  | 15%           | \$650,934           |
| American Lung Association of Florida                        | Regulation of Lung Gene Expression by Oxygen Tension  | Nick        |                        | 7/91-6/92   | 15%           | \$41,400            |
| Crohn's and Colitis Foundation of America                   | Role of Superoxide Dismutases and Cytokines in IBD  | Nick        | Valentine              | 2/92-10/94  | 15%           | \$204,000           |
| National Institutes of Health, R01 HL39593                  | Molecular Biology of the Superoxide Dismutases  | Nick        |                        | 8/92-7/97   | 20%           | \$683,402           |
| American Heart Association, Grant-in-Aid, Florida Affiliate | Neural Control of Blood Pressure Homeostasis: Inducible Nitric Oxide Regulation by Angiotensin II and Cytokines | Nick        |                        | 7/95 - 6/97 | 15%           | \$78,600            |
| American Lung Association of Florida                        | "Molecular Mechanisms Regulating Human iNOS in the Lung"  | Chesrown    | Nick                   | 7/96 - 6/97 | 4%            | \$50,000            |
| American Lung Association of Florida                        | "Molecular Mechanisms Regulating Human iNOS in the Lung"  | Chesrown    | Nick                   | 7/97 - 6/98 | 4%            | \$50,000            |
| National Institutes of Health                               | "Research Training in Gastroenterology"   | Toskes      | Nick, Training Faculty | 7/94 - 6/99 | --            | \$731,485           |
| American Lung Association                                   | "Molecular Regulation of Cytoplasmic Phospholipase A <sub>2</sub> "   | Nick        |                        | 7/98 - 6/99 | 10%           | \$60,000            |
| National Institutes of Health                               | "Postdoctoral Training in Nephrology and Hypertension"  | Tisher      | Nick, Training Faculty | 6/96-12/00  | --            | \$568,404           |
| National Institutes of Health                               | "Hepatic Amino Acid Transport in Diabetic Animals"  | Kilberg     | Nick                   | 4/96 - 3/01 | 6%            | \$920,122           |
| National Institutes of Health                               | "Nutritional Control of Asparagine Synthetase"  | Kilberg     | Nick                   | 12/96-11/00 | 15%           | \$878,878           |
| National Institutes of Health                               | "Catalytic Mechanism of Human MnSOD"  | Silverman   | Nick                   | 7/96 - 6/00 | 15%           | \$891,704           |

**ACTIVE GRANT SUPPORT**

| <b>FUNDING AGENCY</b>                                | <b>GRANT TITLE</b>  | <b>PI</b>                                    | <b>CO-I</b>            | <b>Term</b>   | <b>Effort</b> | <b>Total Direct Costs</b>      |
|--|---|--|------------------------|---------------|---------------|--------------------------------|
| National Institutes of Health R01 HL39593-11         | "Molecular Biology of the Superoxide Dismutases"  | Nick   |                        | 7/92 - 7/07   | 20%           | \$1,125,000                    |
| National Institutes of Health R01 <b>MERIT Award</b> | "Regulation of Cytosolic Phospholipase A <sub>2</sub> in the Lung"  | Nick   |                        | 4/01 - 3/11   | 25%           | \$1,125,000 (first five years) |
| National Institutes of Health                        | "Research Training in Gastroenterology"   | Nick, Valentine<br>Co-PI                     |                        | 2002 - 2007   | --            | \$1,011,735                    |
| Juvenile Diabetes Foundation International           | "The JDFI Gene Therapy Center for the Prevention of Diabetes and Diabetic Complications at the University of Florida and the University of Miami" | Project 2 PI - Nick<br>Overall PI - Atkinson |                        | 11/00 - 11/05 | 10%           | \$800,000 (\$10,600,000)       |
| Eastern Paralyzed Veterans Association               | Gene Therapy Treatment of Spinal Cord Injury with MnSOD and Catalase  | Nick   | Earnhardt Anderson     | 2001-03       | --            | \$100,000                      |
| National Institutes of Health R01                    | "Catalytic Mechanism of Human MnSOD"  | Silverman                                    | Nick                   | 4/01 - 3/05   | 15%           | \$1,000,000                    |
|  |   |  |                        |               |               |                                |
| National Institutes of Health R01                    | "Nutritional Control of Asparagine Synthase"  | Kilberg                                      | Nick                   | 1/01 - 12/05  | 10%           | \$1,000,000                    |
| National Institutes of Health R01                    | Human Heme Oxygenase-I Gene Regulation in Renal Injury  | Agarwal                                      | Nick                   | 4/02 - 3/07   | 10%           | \$1,000,000                    |
| National Institutes of Health RO1                    | "Human Heme Oxygenase-I Gene Regulation by Oxidized LDL"  | Agarwal                                      | Nick                   | 7/03-6/08     | 10%           | \$1,000,000                    |
| National Institutes of Health                        | "Postdoctoral Training in Nephrology and Hypertension"  | Gluck  | Nick, Training Faculty | 6/00-12/05    | --            | --                             |
| National Institutes of Health                        | "Research Training in Tumor Biology"  | May  | Nick, Training Faculty | 7/98 - 6/03   | --            | --                             |

**GRANTS PENDING**

National Institutes of Health, "Human Heme Oxygenase-I Gene Regulation by Oxidized LDL" PI: Anupam Agarwal, Co-PI: Harry S. Nick.

**FELLOWSHIP TRAINING GRANT SUPPORT**

National Institutes of Health - National Research Service Award - Postdoctoral Fellowship, "Molecular Biology of Superoxide Dismutases in Pneumocytes", Sponsor: H.S. Nick, Fellow: Gary A. Visner, Term: 7/88-6/90.  
Total: \$60,000

National Institutes of Health - National Research Service Award - Postdoctoral Fellowship, "Regulation of MnSOD Expression in Hepatocytes", Sponsor: H.S. Nick, Fellow: Victor Araya, Term: 8/92-7/93.

Total: \$30,000

National Aeronautics and Space Administration (NASA) - Predoctoral Fellowship, Catherine Golden, Term: 1992-1994, Mentor: H.S. Nick.

Total: \$24,000

American Heart Association, Florida Affiliate, "Molecular Mechanisms of Oxidized Low Density Lipoprotein Mediated Renal Tubular Injury". Fellowship Award: Dr. Anupam Agarwal.  
Mentor: Dr. Harry S. Nick, 7/1/95 - 6/30/97.

Total: \$69,000

NIH/NIDDK Mentored Clinical Scientist Award (K08), "Oxidative Renal Tubular Injury: Molecular Mechanisms". PI: Anupam Agarwal. Mentor: Harry S. Nick. 07/01/96 - 06/30/01.

Total: \$423,680

American Heart Association, Florida Affiliate, "Heme Oxygenase-1 in Oxidant Renal Injury". Postdoctoral Fellowship Award: Dr. Fumie Shiraishi.  
Co-Mentors: Dr. Harry S. Nick and Dr. Anupam Agarwal, 1998-2000.

Total: \$69,000

American Lung Association, "Over-expression of Mutant Human MnSOD Inhibits Tumor Growth in Mice". Post-doctoral Fellowship Award: Dr. Amy Hearn.  
Mentor: Dr. Harry S. Nick, 07/02 - 06/04.

Total: \$65,000

## **COMMITTEES**

|                |  |
|----------------|--|
| 2002 - present | Member, McKnight Endowed Chair Search Committee, McKnight Brain Institute                        |
| 2002 - present | Member, Search Committee, Division Chief, Pulmonary and Critical Care                            |
| 2000 - present | Member, Research and Development Committee, VA Medical Center, Gainesville                       |
| 2000           | Chairman, Faculty Search Committee, Department of Neuroscience                                   |
| 1999 - 2001    | Member, Faculty Search Committee, Chairman, Department of Neurology                              |
| 1999           | Chairman, Faculty Search Committee, Department of Neuroscience                                   |
| 1999           | Member, Scientific Advisory Council, NIH-National Heart, Lung and Blood Institute                |
| 1998 - 1999    | Member, Scientific Advisory Council Subcommittee, American Thoracic Society                      |
| 1998 - 1999    | Chairman, Faculty Search Committee, Department of Neuroscience                                   |
| 1997 - 1998    | Member, Search Committee, Division Chief, Nephrology   |
| 1997 - 1998    | Member, Search Committee, Division Chief, Gastroenterology                                       |
| 1996 - 2000    | Member, Admissions Committee Phi Beta Kappa Society  |
| 1996 - present | Member, Advisory Board, Center for Structural Biology  |
| 1994 - 2000    | Member, Clinical Research Center Advisory Board  |
| 1995 - 1996    | Member, Organization Child Health Research Center Grant, Dept. of Pediatrics                     |
| 1995           | Chairman, Faculty Search Committee, Center for Structural Biology                                |
| 1995           | Chairman, Faculty Search Committee, Center for Structural Biology                                |
| 1995           | Chairman, Search Committee, Dept. of Biochemistry & Molecular Biology                            |
| 1992 - 1997    | Member, Research and Development Committee, VA Medical Center, Gainesville                       |
| 1992           | Chairman, College of Medicine Faculty Research Prize Committee                                   |
| 1991           | Member, College of Medicine Faculty Research Prize Committee                                     |
| 1989 - 1994    | Chairman - Graduate Student Recruiting Committee   |
| 1989 - 1990    | Faculty Search Committee, Department of Pathology  |
| 1987 - 1989    | Curriculum Committee, Dept. of Biochemistry and Molecular Biology                                |
| 1987 - 1989    | Computer Core Facility Advisory Group  |
| 1987 - 1989    | Member of Scientific Board for <u>Interdisciplinary Center for Biotechnology Research (ICBR)</u> |
| 1987 - 1988    | Faculty Search Committee, Dept. of Biochemistry and Molecular Biology                            |

1987 - 1988 Faculty Search Committee, Department of Neuroscience  
1987 - 1988 Faculty Search Committee, Department of Anatomy and Cell Biology  
1987 Faculty Search Committee, Department of Pathology  
1986 Organizing Committee International Biotechnology Symposium (Univ. of Florida)  
1985 - 1994 Graduate Studies Committee, Dept of Biochemistry and Molecular Biology

**SCIENTIFIC SOCIETY MEMBERSHIP**

American Society of Biochemistry and Molecular Biology  
American Society of Microbiology  
American Association for the Advancement of Science

**References:**

Edward R. Block, M.D., Chairman  
Distinguished Professor  
Department of Medicine  
PO Box 100277  
1600 SW Archer Rd  
Gainesville, FL 32610  
[blocker@medicine.ufl.edu](mailto:blocker@medicine.ufl.edu)

Michael Kilberg, Ph.D.  
Professor  
Dept of Biochemistry and Molecular Biology  
Medicine  
Box 100245, JHMHC  
University of Florida  
Gainesville, FL 32610  
[mkilberg@ufl.edu](mailto:mkilberg@ufl.edu)

Kenneth Adler, Ph.D.  
Professor  
Department of Anatomy, Physiological Sci. and Radiology  
P-101 College of Veterinary Medicine, BOX 8401  
North Carolina State University  
School of Veterinary Medicine  
Raleigh, NC 27606-1428  
[kenneth\\_adler@ncsu.edu](mailto:kenneth_adler@ncsu.edu)

Bruce Freeman, Ph.D.  
Professor & Vice Chair  
Department of Anesthesiology  
Director  
Center Free Radical Biology  
University of Alabama at Birmingham  
619 19th St S, 946 THT  
Birmingham AL 35233-1924  
[bruce.freeman@ccc.uab.edu](mailto:bruce.freeman@ccc.uab.edu)

Charles C. Tisher, M.D.  
Professor and Dean of the College of Medicine  
PO BOX 100215  
Gainesville, FL, 32610-0215  
[tisher@dean.med.ufl.edu](mailto:tisher@dean.med.ufl.edu)

Joe G. N. Garcia, MD  
Dr. David Marine Professor of Medicine  
Director, Pulmonary and Critical Care  
  
Johns Hopkins Asthma and Allergy Center  
5501 Hopkins Bayview Circle  
Baltimore, Maryland 21224-6801  
[drgarcia@jhmi.edu](mailto:drgarcia@jhmi.edu)