

# ROBERT L. DEHAAN

## PERSONAL:

11/20/2008

Office: Robert L. DeHaan, Ph.D.  
C. H. Candler Prof. of Cell Biology Emeritus  
Senior Science Advisor  
Division of Educational Studies  
Emory University  
North Decatur Bldg, Rm. 254  
1784 N. Decatur Rd.  
Atlanta, GA 30322

Contacts: TEL: 404-727-3050  
CEL: 404-308-8395  
FAX: 404-727-2799  
EML: [rdehaan@emory.edu](mailto:rdehaan@emory.edu)  
<http://des.emory.edu/faculty/dehaan.html>

Home: 1355 N. Highland Ave.  
Atlanta, GA 30306

Married: Marianne Scharbo-DeHaan, Ph.D.

## EDUCATION:

1956 Ph.D. UCLA, Dept of Zoology and Physiology  
1954 M.A. UCLA and University of Amsterdam, Netherlands (Prof. M. W. Woerdemann)  
1952 B.A. Univ. of California at Los Angeles  
1950 A.A. Pasadena City College, Pasadena, California

## PROFESSIONAL EXPERIENCE:

### Current

2008-pres. Education Consultant, NIH/NIGMS grant #R01 GM085391, GSU (P.I. Kyle Frantz)  
2008-pres. External Evaluator, NSF/DUE grant #0833434, Ga Tech (P.I. G.B. Schuster)  
2003-pres. Senior Science Advisor, Division of Educational Studies, Emory University  
2001-pres. C. H. Candler Professor of Cell Biology Emeritus, Emory University Medical School

### Previous:

2004-2008. Director, Education Research, India-China-America Institute  
2001-2003 Director, Cmte, Undergrad. Sci Ed, Nat'l Research Council, Nat'l Academies, Wash DC  
1997-2001 Charles H. Candler Professor of Cell Biology, Emory University Medical School  
1973-1997 William P. Timmie Professor, Dept. of Anat/Cell Biology, Emory Medical School  
1997-2003 Adjunct Professor, Emory University Division of Educational Studies  
1998-2001 PI/Director, Health Science Guides (HSG), NIH/SEPA Program  
1996-2000 Summer Faculty, National Science Resources Center, Washington, D.C.  
1995-2001 PI/Director, Elementary Science Education Partners (ESEP), NSF/LSC Program  
1992-2003 Faculty Scholar, Emory Center for Ethics in Public Policy and the Professions  
1981-1995 Director and P.I., Emory NIH Program in Cardiac Cell Function,  
1992-1993 Fulbright Scholar and Visiting Professor, Dept. of Anatomy & Developmental Biology  
University College London  
1990-1992 Founder and Director, Center for Ethics in Public Policy and the Professions, Emory  
1989-1991 Director, Grad Div of Biological and Biomedical Sciences, Emory University  
1980-1981 Macy Scholar and Visiting Investigator, Institute for Comparative Physiology,  
University of Paris-South, Orsay, France

1976-1980	Director, Interdepartmental Program in Cell and Molecular Biology, Emory
1956-1973	Research Embryologist, Dept of Embryology, Carnegie Inst of Washington, Balt, MD
1971-1973	Professor of Embryology, Department of Biology, Johns Hopkins University
1964-1971	Associate Professor, Department of Biology, Johns Hopkins University
1962-1965	Summer Embryology Instructor, Marine Biological Lab., Woods Hole, MA
1962-1963	Visiting Investigator, Zoological Institute, University of Zurich, Switzerland
1961	Visiting Assistant Professor of Embryology, Haverford College, Haverford, PA
1957-1960	Assistant Prof of Embryology, Dept of Anatomy, School of Med, Johns Hopkins Univ.
1950-1951	Visiting Investigator, Dept. of Embryology and Anatomy, University of Amsterdam, Netherlands (Prof. M. W. Woerdemann)
1953-1956	Research Asst, UCLA, Dept of Physiology (Prof. Jack Field)

### **HONORS/NATIONAL RECOGNITION**

2009	AERA Fellow-Distinguished Contributions to Research in Education, San Diego, CA
2006	Viktor Hamburger Outstanding Educator Prize, Society for Developmental Biology
2005	Keynote Speaker, "Learning Science", Institute on Neuroscience, Atlanta, GA
2004	Secretary's Summit on Science Education, Washington, D.C.
2002-2003	US Dept of Ed., Mathematics/Science Initiative, Washington, DC
2002-2003	NRC/NSF Center for Education, Advisory Committee, Washington, DC
2002	US/Iran Committee on Higher Education
2001	NAS/NRC Expert Panel on Scientific Quality in Education Research, Wash., DC
2000	TIMSS-R Technical Review Panel, Science Experts Group, American Institute for Research, Washington, D.C.
2000	Center of Excellence, Science Education Reform, Nat'l Science Resources Center, LASER Program, Washington D.C.
2000	Atlanta Public Schools SKIL Teachers, Power of One Award
1998	Bruce Alberts Award, American Society of Cell Biologists
1998	Thomas Jefferson Award, Emory University
1998	Bierkamper Keynote Research Lecturer, Univ. of Nevada, School of Medicine
1997-pres.	Charles Howard Candler Professor of Cell Biology, Emory Univ. Medical School
1997	ESEP Director, Exemplary Science Ed Program, Nat'l Acad of Sciences, NRC
1996-1998	Elementary Sci Ed Leadership Inst, Faculty, Nat'l Sci Resources Cntr, Wash, D.C.
1996	ESEP Highlight, CNN Science and Technology Week
1993	Gregor Mendel Research Medal, University of Brno, Czech Republic
1992-1993	Fulbright Scholar, University College London, U.K.
1992-pres.	Faculty Scholar, Emory Center for Ethics in Public Policy and the Professions
1991	Georgia Speaker of the Year, Barkley Forum, National Forensic Honor Society
1984, 1987	Outstanding Teacher of the Year Award, EUMS Classes of 1987, 1990
1980-1981	Macy Scholar, Josiah Macy, Jr. Foundation, Univ. of Paris-South, Orsay, France
1976-1997	William P Timmie Professor of Anatomy and Cell Biology
1973-pres.	Lifetime Fellow, Carnegie Institution of Washington
1969	Friday Evening Lecturer, Marine Biological Laboratory, Woods Hole, MA
1966	Lewis A. Connor Lecturer, American Heart Assn.
1960-pres.	AAAS Fellow

### **RECENT NATIONAL/REGIONAL SERVICE**

2005-2008	Proposal Reviewer, American Education Research Association
2005-2008	Proposal Reviewer, National Association for Research in Science Teaching
2005	Member, National Assessment Governing Board, NAEP Forum
2004	Consultant Evaluator, Univ. of Alabama, Tuscaloosa College of Arts and Sciences
2004	Member, R25 Study Section, NIH/SEPA
2003-2004	Member, NSF MSP and other NSF grant review panels
2003	Member, NRC Advisory Committee on Research in Education

2002	Member, NSF Math/Science Partnership Review Panel
2002	Member, US-Iran Joint Nat'l Acad Sci Delegation on Higher Education, Tehran, Iran
2001-2002	Member, US Nat'l Academies, Cmte on Scientific Principles for Education Research
2001	Member, Governor's Panel on Advancing Student Achievement, Atlanta Regional Consortium for Higher Education.
2000-pres 2000	Member, Board of Directors, Kids Health, Georgia Health Education Center. Project Director, NAS/NRC Selecting Instructional Materials (SIM) Georgia field trials, Fulton County School District.
2000	Member, Interagency Education Review Panel (IERI), Joint NSF, NIH, DoEd Panel, Arlington, VA.
2000	Member, NIH-NCRR/SEPA grant review panel, Rockville, MD.
1997-2001	Member LASER Advisory Board, Nat'l Science Resources Center

### RECENT ADVISORY BOARDS/DIRECTORATES:

2005-pres	IQWST Advisory Board, University of Michigan, Ann Arbor. MI
2000-2008	HealthMPowers/Kids Health, Georgia Health Education Center, Board of Directors
2004-2008	Founding Board Member, India, China, America Institute (ICAI)
2004-2007	Developmental Biology Society, Professional Development and Education Committee
2004-2006	Advisory Board, Journal of Affective/Cognitive Learning
2004-2006	Organizing Committee, Georgia Alliance for Science Education
2003	Nat'l Research Council Advisory Committee on Research in Education
2002-2004	Nat'l Science Resources Center/LASER Advisory Board
2002-2003	Steering Committee, NRC Faculty Summer Institute on Science Education
2000-2004.	Grant Park Neighborhood Charter School Advisory Board
2000-2002	Eastbank Learning Community, Glasgow Caledonian University, Scotland
2001	Ga Tech/Univ Mich, National Advisory Board on Middle School Science Curriculum
2000	<i>Human Body Systems</i> , Smithsonian/NAS/NSRC, Advisory Board
1997-2005	National Science Resources Center, National Advisory Board
1994-2005	Emory Ethics Center Board of Advisors

### RESEARCH SUPPORT (Principal Investigator):

06/01/98 - 05/31/01	Health Science Guides - Phase1, PAR-96-052 NIH Science Education Partners Award	\$641,967
09/01/95 - 08/31/00	Elementary Science Education Partners, ESI-9552864, NSF Local Systemic Initiative K-8 Teacher Enhancement	5,699,850
07/01/97 - 08/31/00	Elementary Science Education Partners, ESI-9552864-S Supplement: The Cultural Imperative to Systemic Reform	238,875
08/01/96 - 07/31/02	Emory ESEP Provost Fund	120,000
07/01/95 - 06/30/97	Emory Elementary Science Education Partners/Mentors, Eisenhower grant GA Dept. of Education,	115,554
07/01/81 - 06/30/94	Regulation of Cardiac Function by Membrane Components, NIH Program Project, P01-HL-27385-13,	8,367,112
07/01/80 - 06/30/81	Insulin-membrane interactions and the electrical properties of embryonic heart cells, Macy Fdn Faculty Scholar Award	24,350
03/01/79 - 10/30/82	Radio-Frequency Radiation Effects on Excitable Tissues, USAF #F49620-79-C-0055, with R. L. Seaman	104,795
02/14/79 - 02/13/80	Modulation of Heart Cell Membrane Currents by Surface Macromolecules, McCandless Research Fund, Emory;	980
02/01/79 - 06/30/80	The Role of Surface-Associated Molecules in Cell Adhesion, Emory Institutional Cancer Center Grant;	5,000
02/01/75 - 01/31/78	Electrical Coupling and Cardiac Fibrillation," NIH HL-17827 Co-Investigator: L. J. DeFelice	153,013

07/01/75 - 06/30/77	An Electrical Circuit of a Heart Tissue Model, Georgia Heart Association Grant-in-Aid;	13,000
05/01/74 - 04/30/84	"Differentiation of the Heart Cell Membrane", NIH HL-16567 Co-Investigator: L. J. Elsas	629,443
07/01/73 - 05/30/74	Emory University - Initial Complement Budget	50,000
07/01/57 - 06/30/73	Carnegie Institution of Washington Department of Embryology, (total support from institutional budget)	---

### EDITORIAL REVIEW BOARDS

2006-pres. Journal of Nano Education

### MANUSCRIPT/PROPOSAL REVIEWER

2008-pres. *Pedagogies: An International Journal*  
 2007-pres. *CBE-Life Sciences Education*  
 2007-pres. *Bioscience*  
 2004-pres. JRST, National Assn for Research in Science Teaching,  
 2004-pres. *Educat Researcher*, American Education Research Assn  
 1960-pres. *Science*  
 1957-1997 *Nature*, *American Journal of Physiology*, *Biophysical Journal*,  
*Circulation Research*, *Developmental Biology*, *Experientia*, *Journal of Cell Biology*,  
*Journal of General Physiology*, *Journal of Membrane Biology*

### EMORY UNIVERSITY SERVICE (Partial list)

2007-pres Neuroscience Initiative Education Committee, Emory University  
 2006-pres Member, Science Education Research Journal Club  
 2006-2008 Education Advisor, Hubert Program in Global Health, RSPH  
 1998-2001 Member, Advisory Committee, Science and Society  
 1998-2001 Founding Member, Steering Committee, Emeritus College  
 1998-2001 Member, Organizing Committee, Candler Professor Leadership Group  
 1995-2001 Member, Theory-Practice Education Committee  
 1994-2001 Member, Advisory Board, Emory Ethics Center  
 1997-1998 Member, Medical Curriculum Revision Committee  
 1993-1997 Member, University Calendar Committee  
 1993-1996 Member, Medical Faculty Development/Promotions  
 1990-1992 Director, Emory Ethics Center

### RECENT INVITED PRESENTATIONS (Partial list)

04/11/08 Scientific Teaching, SE Society for Developmental Biology, Atlanta, GA  
 06/05/07 Promoting science literacy with student research. Project Kaleidoscope, Mableton, GA  
 05/01/07 Scientifically-based education research. Experimental Biology 2007, Washington, DC  
 06/19/06 How We Should Train Young Scientists: A Tribute to Viktor Hamburger, Society for  
 Developmental Biology, Ann Arbor, MI  
 05/25/06 Teaching conservation science instruction to Chinese vs U.S. teachers, Sino-American  
 Education Consortium, Chengdu, PR China  
 03/31/06 On Mentoring: A Tribute to Jerome Sutin, Emory University, Atlanta, GA  
 03/14/06 Science Education and Science Literacy: an International Perspective, Center for  
 Behavioral Neuroscience, Atlanta, GA  
 12/17/05 Comparing Tertiary-level Science Instruction in China and the U.S., Hong Kong Inst for  
 Education, Hong Kong, China  
 12/14/05 Higher Education in Science: China and the U.S., South China Normal Univ,  
 Guangzhou, China  
 12/09/05 Higher Education in Science: China and the U.S., Jimei Univ, Xiamen, China

12/06/05	Higher Education in Science: China and the U.S., Fudan Univ, Shanghai, China
10/15/05	Paradox of the Chinese Learner, ICA Institute, Atlanta, GA
08/05/05	Learning Science, Institute on Neuroscience, Atlanta, GA
02/28/05	Undergraduate Science Instruction: Challenges, Piedmont Project, Atlanta, GA
07/27/04	Issues in Undergraduate Education: A National Perspective, SDB, Calgary, Canada
04/12/04	Replication in Education Research, AERA Presidential Panel. San Diego, CA

## **TEACHING EXPERIENCE**

### **Individual Teaching**

1989-pres.	Thesis Committee Member for 7 predoctoral students
1967-2004.	Thesis Supervisor/Research Director for 10 predoctoral students
1965-1996	Mentor/Research Director for 26 post-doctoral fellows

### **Secondary Teaching**

1991,1992	Can We Know the Good: Methods of Ethical Reasoning", Grady High School
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### **Undergraduate Courses**

2004	EDS 471s, Inquiry-based Science Education (with K. Falkenberg)
1984, 1986	Perspectives on Nuclear War, Emory University.
1961	Mechanisms of Development, Haverford College (with James D. Ebert)

### **Graduate /Medical Courses**

1975-1994	Mechanisms of Development, Graduate seminar, Dept. of Anat and Cell Biology, Emory
1973-1992	Human Embryology: Development and Disease; Teaching Excellence Award, 1978; Teacher of the Year Award, Medical Class 1987; 1990
1964-1973	Developmental Biology Seminar, Johns Hopkins University
1957-1960	Medical Human Embryology, Johns Hopkins Medical School, Dept. of Anatomy

### **Graduate Education Courses**

2001	EDS 772 Seminar on Education Research (with R. Jensen)
2000, 2001	EDS 572t. Advanced Science Content for Teachers: Electricity, Emory Ed. Studies

### **Summer Teaching**

1996-1998	Summer Faculty, Role of Scientists in the Elementary Classroom, Science Education Leadership Institute, NSRC, Wash. D.C.
1962-1965	Summer Instructor, Embryology Course, Marine Biological Lab, Woods Hole, MA

## **LOCAL ATLANTA EDUCATION-RELATED COMMUNITY ACTIVITIES**

2000-2001.	Grant Park Charter School Advisory Board
1998-2001.	Leadership Team, Atlanta Systemic Initiative, Atlanta Public Schools
1996-1998	Advisory Council, Atlanta Public Schools, Urban Systemic Initiative
1995-2001.	Executive Committee, P-16 Council
1995-pres.	Atlanta Middle School Advisory Council
1995-1997	Atlanta Public Schools, Strategic Planning Board
1986-1987	Executive Committee - Atlanta Alliance for Arms Control
1983, 1985	Local Organizer - UCS ASAT Teleconference
1983-1989	Member/Organizer, Atlanta Professionals Coalition Against Nuclear War
1983	Associate Member, Physicians for Social Responsibility
1982	Member, United Campuses to Prevent Nuclear War; Chrmn, Emory
1973-1995.	Member/Organizer, Atlanta Union of Concerned Scientists

**MEMBERSHIPS, SOCIETIES:**Experimental Science

AAAS (Fellow; Committee on Council Affairs; Executive Council)  
 American Heart Association (Basic Sciences Council)  
 American Physiological Society  
 American Society for Cell Biology  
 American Society of Zoologists  
 Biophysical Society  
 Cardiac Muscle Society  
 Federation of American Scientists  
 International Society of Developmental Biologists  
 International Society for Heart Research  
 Society for Developmental Biology  
 Society of General Physiologists  
 Tissue Culture Association

Education

American Educational Research Association  
 Association for the Education of Teachers in Science  
 National Association of Biology Teachers  
 National Association for Research in Science Teaching  
 P-16 Council (Executive Council)

**GRADUATE STUDENT THESIS SUPERVISOR/COMMITTEE MEMBER**

<u>Student</u>	<u>Years/Degree</u>	<u>Present Position</u>
Jason Chen	2007-pres.	Doctoral Student, Emory Div Educational Studies
David Morris	2007-pres.	Doctoral Student, Emory Div Educational Studies
Camille Goebel	1996-2008	Education Consultant
Lawrence M. Clark	2000-2004 Ph.D.	Asst Prof, Curr&Instr, U Maryland, College Park
Karen Falkenberg	1996-2002 Ph.D.	Chief Creative Officer, Concept Catalysts, Inc., and Lecturer, Emory Div of Ed Studies
A.Tucker-Blackmon	1996-2002 Ph.D.	President, Innovative Learning Concepts
Stephanie J. May	1998-2000 Ph.D.	Supervisory Teacher, DeKalb Co. School District
Michael Hughes	1995-98 Ph.D.	Science Education Consultant
Jan Heller	1989-95 Ph.D.	Ethics Director, St. Joseph's Hospital, Atlanta
Yan-Hua Chen	1988-92 Ph.D.	Asst Prof., Anat & Cell Biol., East Carolina University
Jonathan Satin	1985-89 Ph.D.	Assoc. Prof., Dept. of Pharmacol., Univ. of Kentucky
Mitchell Gould	1982-83 M.S.	Computer programmer, A.T.& T.
Sigrid Myrdal	1977-80 Ph.D.	Senior Scientist, Bristol-Myers Squibb, Seattle
Edward H Williams	1976-80 Ph.D.	Assoc. Prof., Biol. Dept., Marcatto State University
Blair T. Atherton	1975-78 Ph.D.	Assoc. Prof, Cell Biol and Anat, Northwestern University Medical School, Chicago
John Dunning	1969-71 M.S.	Physician, private practice.
Iris Polinger	1967-69 Ph.D.	Consultant in Biotechnology

**POSTDOCTORAL FELLOWS**

Yan-hua Chen	1992-1995	Asst Prof., Anat & Cell Biol., East Carolina University
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Seiko Kawano	1987-1990	Assoc. Prof. Med. Res. Inst., Dept. of Cardiovasc. Diseases, Tokyo Med. Dental Univ., Tokyo
Richard Veenstra	1984-1986	Professor., Pharmacology, State University New York, Upstate Medical Center, Syracuse, NY
Shiroh Fujii	1983-1985	Professor, Science Univ. of Tokyo, Hokkaido, Japan
R. Fischmeister	1982-1983	Chef de Recherche, Lab. Cardiologie Cell. et Molec., INSERM, Fac. de Pharmacie, Univ. Paris-Sud, Chatenay, France
June C. Serravezza	1979-1980	Psychiatrist (joint with L. J. Elsas)
David E. Clapham	1979-1980	Professor of Pharmacology and Physiology, Mass. General Hospital, Harvard Medical School
Clark Lantz	1977-1978	Professor of Anatomy, West Virginia Medical Center, Morgantown, West Virginia
Dirk Ypey	1976-1977	Professor of Physiology, Leiden University, The Netherlands (joint with L. J. DeFelice)
Alvin Shrier	1976-1979	Prof., Physiol., McGill Univ., Montreal.
John Clay	1976-1979	Staff Scientist, Lab. of Biophysics, NIH, NINCCS
Amy H. Chien	1976-1977	Lecturer, Northwestern Univ., Chicago, IL
Richard D. Nathan	1973-1974	Professor, Physiology Dept., Texas Tech. Univ. Health Science Center, Lubbock, Tx.
G. K. Batra	1973-1974	Consultant
Max Springer	1971-1973	Lecturer, Zoological Inst., Univ. of Zurich
John Rash	1971-1972	Assoc. Prof., Anatomy Dept., Colorado State Univ., Ft. Collins, Col. (joint with J.D. Ebert)
T. F. McDonald	1970-1972	Professor, Dept. of Physiology and Biophysics, Dalhousie University, Halifax, Canada
Howard Sachs	1970-1972	Associate Provost, Ohio State Univ., Columbus
Herman K. Wolf	1970-1971	Director, Med. Computer Cntr, Biophysics Dept., Dalhousie Univ., Halifax, Nova Scotia
Reiji Hirakow	1969-1972	Prof. of Anatomy, Saitama Med. School, Japan
Francis J. Manasek	1968-1969	Assoc. Prof., Dept. of Anatomy, Univ. Chicago
R. Van Praagh	1968	Prof. of Pediatric Cardiology, Children's Hospital, Boston, Mass.
Helge Stalsberg	1967-1969	Professor of Pathology and Epidemiology, Tromso Medical School, Norway
Glenn Rosenquist	1966-1967	Science Director, Children's Hospital, National Medical Center, Washington, D.C.
Melvyn Lieberman	1965-1966	Professor, Physiology, Duke Univ. (Deceased)

#### **ADMINISTRATIVE AND ORGANIZATIONAL EXPERIENCE**

2004-pres.	Director, Education Research, India, China, America Institute, Atlanta, GA
2001-2003	Director, Cmte on Undergraduate Science Education, NAS/NRC, Wash., DC
1998-2001	PI/PD, NIH Health Science Guides Program
1994-2000	PI/PD, NSF LSC: Elementary Science Education Partners
1996	Steering Committee, NSRC, Educational Leadership Program for Academic Health Centers, Institute of Medicine. Washington, D.C.
1995	Organizer, Conference on Cardiovascular Development, Perdido Beach, AL
1994-1995	Organizer, International Conf. on Gap Junctions, Ile des Embiez, France,
1981-1994	Program Director and PI, NIH Program Project, NHLBI
1965-1994	Organizer and Director, Tender Heart Club, Weekly research discussion group
1988-1991	Organizer and Director, Center for Ethics in Public Policy and the Professions
1988-1991	Director, Graduate Division of Biological and Biomedical Sciences
1984-1986	AAAS Committee on Council Affairs, Executive Council

- 1981-1983 Chair, Steering Committee, Emory University Human Rights Year  
 1978-1979 Chair, Organizing Committee, University Symposium, Intellect and Imagination, Proceedings published in *Daedalus*, American Acad. of Arts and Sciences  
 1976 Chair and Organizer, Gordon Conference on Rhythmic Activity in Muscle Holderness School, Plymouth, New Hampshire  
 1971-1977 International Secretary, International Society of Developmental Biologists.  
 1970-1973 Founding Chairman, Honor B. Fell Division, Tissue Culture Association

## PUBLICATIONS

### A. Books

1. DeHaan, R. L. and H. Ursprung, eds., *Organogenesis*, Holt, Rinehart, Winston, 1965
2. DeHaan, R. L. and A. Nason, *The Biological World*, John Wiley & Sons, 1973; *El Mundo Biologico*, Editorial Limusa, S.A., 1980, Spanish edition; *Sinat Biologii*, Panstwowe Wydawnictwo Rolnicze Lesne, Warsaw, 1981; 1988, Polish ed.
3. McCray, R. A., DeHaan, R. L. and Schuck, J.A. 2003. *Improving Undergraduate instruction in Science, Technology, Engineering and mathematics; Report of a Workshop*. National Research Council, National Academies Press, Washington, DC.
4. DeHaan, R. L. & Narayan, K. M. V. *Education for Innovation: Implications for India, China, and America*, Sense Publishers, 2008.

### B. Publications related to education

1. DeHaan, RL and FH. Dabney. 1994. Establishing an elementary science and math education partner/mentor program using student and faculty volunteers. *Molec. Biology of the Cell*. 5:249a.
2. DeHaan, RL and FH. Dabney. 1995. Student and faculty volunteer participation in an elementary science education partner/mentor program. *1995 AAAS: Unity in Diversity*. p. 129.
3. DeHaan, R.L. 1995. Science partners for elementary schools. Morningside/Lenox Park Assn Newsletter. Spring issue, pp. 2-3.
4. Weinberg, M., DeHaan, R., and Goebel, C. 1996. Elementary Science Education Partners: Pathways for professional growth for elementary science teachers.. In *Proceeding of the 1996 Annual International Conference of the Association for the Education of Teachers in Science*. (Rubba, P., Keig, P., and Rye, J., Eds.), pp. 528-536, Pensacola Florida, ERIC Document No. ED 398-060.
5. DeHaan, R.L., Hanford, R., Kinlaw, K., Philler, D., and Snarey, J., 1997. Promoting ethical reasoning, affect, and behavior among high school students: an evaluation of three teaching strategies, *J. Moral Educ.*, 26(1):5-20.
6. Tucker-Blackmon, A., DeHaan, R. L., and McCartney, A. 2000. Reflections about the Elementary Science Elementary Partners program. Presentation at the annual national convention of the National Science Teachers Association, Orlando.
7. DeHaan, R.L., West, J.P., Aldag, J.M. and Crocker, R. 2001. Brain Voyager: An interactive adventure game in brain biology for teenagers, Presentation at the Annual Learning Conference, Spetses, Greece.
8. Handelsman, Jo, D Ebert-May, Robert Beichner, Peter Bruns, Amy Chang, Robert DeHaan, Jim Gentile, Sarah Lauffer, James Stewart, Shirley M. Tilghman, and William B. Wood . 2004. Scientific Teaching. *Science*, 304:521-522.
9. DeHaan, R.L.. 2004. Issues in undergraduate science education: Perspectives from the National Research Council. *Proceedings of a Workshop on Higher Education*. The Academy of Sciences of IR Iran in cooperation with the U.S. National Academies, pp. 12-17.
10. DeHaan, R.L. 2004. Why science matters for our children. *Atlanta Business Chronicle*, April 2, 2004 (at <http://atlanta.bizjournals.com/atlanta/stories/2004/04/05/editorial3.html>).
11. DeHaan, R.L. 2004. In science, no such thing as "just" a theory. *Atlanta Journal-Constitution*, Nov. 15, 2004.
12. DeHaan, R.L. 2005. The impending revolution in undergraduate science education. *Journal of Science Education and Technology*, 14(2): 253-269.

13. Eisenhart, M and R. L. DeHaan 2005. Doctoral preparation of scientifically based educational researchers. *Educational Researcher*, 34(4): 3-13.
14. Frantz, K. J., R. L. DeHaan, M. K. Demetrikopoulos, and Carruth, L. L. 2006. Routes to research for novice undergraduate neuroscientists. *Cell Biology Education*, 5(1), 175-187.
15. DeHaan, R. L. 2006. Toward rational education policy (Book Review) *Science*, 312, 368.
16. DeHaan, R. L. 2006. Education for Innovation: A look at China and the U.S. *China Currents*, 5(3), at: [http://www.chinacenter.net/China\\_Currents/fall\\_2006/cc\\_dehaan.htm](http://www.chinacenter.net/China_Currents/fall_2006/cc_dehaan.htm).
17. DeHaan, R. L. & Hutcheson, M. 2007. Teaching Innovation: Implications for India, China and America. *China Currents*, 6(2), at: [www.chinacenter.net/China\\_Currents/spring\\_2007/cc\\_dehaan.htm](http://www.chinacenter.net/China_Currents/spring_2007/cc_dehaan.htm).
18. Goodman, B.E., M. Eisenhart, R.L. DeHaan, R. E. Kemm, D.W. Rodenbaugh, and N. Pelaez, 2007. Scientific principles of education research: Experimental Biology 2007, *Advances in Physiology Education*, 31: 374 - 376.
19. DeHaan, R. L. & Narayan, H. M. V. 2008. Education for Innovation: A tri-national overview. In DeHaan, R. L. & Narayan, H. M. V, Eds., *Education for Innovation: Implications for India, China and America*, Rotterdam, Sense Publishers.
20. DeHaan, R. L. 2008. National cultural influences on higher education. In DeHaan, R. L. & Narayan, H. M. V, Eds., *Education for Innovation: Implications for India, China and America*, Rotterdam, Sense Publishers.

#### C. Papers and chapters in experimental science

1. Whalen, W. J. and R. L. DeHaan. 1955. A cantilever pneumograph. *Rev. Sci. Instr.* 26: 1073-1075.
2. DeHaan, R. L. 1956. The serological determination of developing muscle protein in the regenerating limb of *Amblyostoma mes.* *J. Exptl. Zool.* 133: 73-86.
3. DeHaan, R. L. 1958. Modification of cell migration patterns in the chick embryo. *PNAS* 44: 32-37.
4. DeHaan, R. L. 1958. Cell migration and morphogenetic movements. In: *The Chemical Basis of Development*, W. D. McElroy, H. B. Glass, eds., Johns Hopkins Press, Balt, Md., pp. 339-373.
5. DeHaan, R. L. 1959. The effects of the chelating agent EDTA on cell adhesion in the slime mold *Dictyostelium discoideum*. *J.Embr.Exp.Morphol.* 7:335-343.
6. DeHaan, R. L. and D. Carter. 1959. Cardia bifida produced experimentally in chick embryos. *Anat. Rec.* 134: 551.
7. DeHaan, R. L. 1959. Cardia bifida and the development of pacemaker function in the early chick heart. *Dev. Biol.* 1: 586-602.
8. DeHaan, R. L. and J. Field. 1959. Anoxic endurance of cardiac and respiratory function in the adult and infant rat. *Am. J. Physiol.* 197: 445-448.
9. DeHaan, R. L. and J. Field. 1959. Mechanisms of cardiac damage in anoxia. *Am. J. Physiol.* 197: 449-453.
10. DeHaan, R. L. 1961. Differentiation of the atrioventricular conducting system of the heart. *Circ. (Suppl.)* 24: 458-470.
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