Judith H. Greenberg, Ph.D.

CURRENT APPOINTMENT

Deputy Director, National Institute of General Medical Sciences
Acting Director, Division of Biophysics, Biomedical Technology, and Computational Biosciences

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National Institute of General Medical Sciences
National Institutes of Health
Building 45, Room 3An44
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PREVIOUS POSITIONS

American National Red Cross Blood Research Laboratory, Bethesda, MD

- Research Associate, 1971-1974

National Institute of Dental Research, National Institutes of Health, Bethesda, MD

- Postdoctoral Fellow, 1974-1975
- Senior Staff Fellow, 1975-1981

National Institute of General Medical Sciences, National Institutes of Health, Bethesda, MD

- Program Director, Genetics of Growth and Differentiation Section, Genetics Program Branch, 1981-1983
- Acting Chief, Genetics of Growth and Differentiation Section, Genetics Program Branch, 1983-1984
- Chief, Genetics of Growth and Differentiation Section, Genetics Program Branch,
- 1984-1988
- Deputy Director, Genetics Program Branch, 1985-1988
- Director, Division of Genetics and Developmental Biology (previously named Genetics Program Branch), 1988-2015
- Acting Director, National Institute of General Medical Sciences, May 2002-November 2003 and July 2011-August 2013
- Acting Deputy Director, National Institute of General Medical Sciences, October 2013-January 2015

EDUCATION

B.A., Biology, University of Pittsburgh, 1967
M.A., Biology, Boston University, 1970
Ph.D., Developmental Biology, Bryn Mawr College, 1972

SELECTED AWARDS

Public Health Service Special Recognition Award, 1991
Senior Executive Service Performance Award, 1995, 1996, 1997, 1998, 2000, 2001, 2002, 2003
NIH Group Merit Award, 1998
NIH Director's Group Award, 1999
Senior Executive Service Presidential Meritorious Executive Rank Award, 1999
Special Act Award, 2004, 2005, 2006, 2007
NIH Director's Award, 2004
NIH Director's Group Award, 2006
NIH Merit Award, 2007
NIH Director's Award, 2008
NIGMS Distinguished Service Award, 2013

SELECTED NIH SPECIAL ASSIGNMENTS

Member, Staff Training in Extramural Programs (STEP) Committee, 1986-1989
NIH Program Representative to the Federal Demonstration Partnership, 1991-1998
Detailee (part-time) to Office of Science and Technology Policy, 1993-1994
Executive Secretary, Panel to Assess the NIH Investment in Research on Gene Therapy, 1995
Member, Executive Committee, Federal Demonstration Partnership, 1996-1998
Organizer of First Community Consultation on the Responsible Collection and Use of Samples for Genetic Research, 2000
Chair, Trans-NIH Working Group that developed "Points to Consider When Planning a Genetic Study that Involves Members of Named Populations," 2001
Detailee (part-time) to Office of the Director, NIH, to establish Human Embryonic Stem Cell Registry, 2001
Member and Chair, Stetten Museum Advisory Committee, 2001-2006
Member, Title 42 NIH Compensation Committee, 2002-Present
Organizer of NIH RNAi workshop and inventory to identify research and resource needs related to RNAi technology, 2004
Principal Leader, NIH Director's Pioneer Award Program, 2004-2011
Principal Leader, NIH Director's New Innovator Award Program, 2007-2011
Member, NIH Peer Review Implementation Cross-Cutting Group, 2008
Chair, Steering Committee, Office of Emergency Care Research, 2011-2013
NIH Working Group on Women in Biomedical Careers, 2011-Present
Organizer, Causal Factors and Interventions Workshop (to Promote Women in Scientific Careers), 2012
Member, Advisory Committee to the Director Biomedical Research Workforce Report Pre-implementation Team, 2012
Co-chair, Biomedical Workforce Working Group, 2012-Present
Organizer, Advancement of Women in Biomedical Careers Workshop, 2014
NIH Coordinating Committee on Research on Women's Health, 2018-Present

SELECTED NIGMS SPECIAL ASSIGNMENTS

Project Officer, NIGMS Human Genetic Cell Repository, 1984-2011
Chair, NIGMS Strategic Plan Committee, 2006-2007
Member, Portfolio Retreat Committee, 2007
Chair, NIGMS Training and Career Development Strategic Plan Committee, 2009-2010
Organizer, Advancing Biomedical Research Workforce Diversity: NIGMS Workshop for Postdocs Transitioning to Independent Positions, 2009-2010
Chair, Implementation Committee for the NIGMS Strategic Plan for Biomedical and Behavioral Research Training, 2011
Chair, NIGMS Postdoctoral Research Training Associates (PRAT) Strategic Plan Committee, 2013-2014
Organizer, NIGMS Council Working Group on Sepsis, 2018

OTHER PROFESSIONAL ACTIVITIES

Member, Committee of Visitors for the Division of Molecular and Cellular Biosciences, National Science Foundation, 2008

SELECTED PRESENTATIONS

Invited speaker at National Academy of Sciences Panel on Biomedical Research Training, 2003
Invited speaker on career development in quantitative biology at Burroughs Wellcome Fund Board of Directors Meeting, 2003
Invited speaker on community consultation in genetic research, Gordon Conference on Science and Technology Policy, 2004
Invited speaker on NIH support for RNAi research to German Minister of Science and German Embassy science and technology staff, 2004
Invited speaker on support of high-risk research to delegation of Dutch members of Parliament, 2006
Invited speaker on support of high-risk research to National Science Board, 2006
Invited speaker on NIH grant support to National Science Foundation-sponsored Women in Science and Engineering Workshop, 2009
Invited keynote speaker on NIGMS and its research training strategic plan at the EPSCoR/IDeA Foundation meeting, 2012
Invited speaker on the future of model organisms in biomedical research at the Model Organisms to Human Biology Meeting, 2012
Invited speaker on NIGMS and its research training strategic plan at the National IDeA Symposium of Biomedical Research Excellence (NISBRE), 2012
Invited speaker, Investing in the Future: NIGMS Strategic Plan for Biomedical and Behavioral Research Training, Experimental Biology Society national meeting, 2012
Invited speaker on Training the Biomedical Workforce of the Future, University of Alabama, Birmingham, 2013

PUBLICATIONS

1. Greenberg JH. Aggregation in vitro of immature thrombocytes from early chick embryos. Thromb Diath Haemorrh. 1972 Aug 31;28(1):14-23.
2. Greenberg JH, Fletcher AP, Jamieson GA. The presence of glycogen synthase in preparations of platelet plasma membranes. Thromb Diath Haemorrh. 1973 Nov;30(2):307-14.
3. Greenberg JH, Jamieson GA. The effect of lectins on platelet aggregation and release. Biochim Biophys Acta. 1974 Apr 29;345(2):231-42.
4. Hassell JR, Greenberg JH, Johnston MC. Inhibition of cranial neural crest cell development by vitamin A in the cultured chick embryo. J Embryol Exp Morph. 1977 Jun;39:267-71.
5. Greenberg JH, Pratt RM. Glycosaminoglycan and glycoprotein synthesis by cranial neural crest cells in vitro. Cell Differ. 1977 Aug;6(2):119-32.
6. Greenberg JH, Schrier BK. Development of choline acetyltransferase activity in chick cranial neural crest cells in culture. Dev Biol. 1977 Nov;61(1):86-93.
7. Greenberg JH, Bader JP. Neural crest cells: temperature-dependent transformation by Rous sarcoma virus. Cell Differ. 1979 Feb;8(1):19-27.
8. Wilk AL, Greenberg JH, Horigan EA, Pratt RM, Martin GR. Detection of teratogenic compounds using differentiating embryonic cells in culture. In Vitro. 1980 Apr;16(4):269-76.
9. Greenberg JH, Foidart J-M, Green RM. Collagen synthesis in cultures of differentiating neural crest cells. Cell Differ. 1980 Jun;9(3):153-63.
10. Greenberg JH, Oliver C. Dimethyl sulfoxide reversibly inhibits the pigmentation of cultured neural crest cells. Arch Biochem Biophys. 1980 Oct 1;204(1):1-9.
11. Greenberg JH, Seppa S, Seppa H, Hewitt AT. Role of collagen and fibronectin in neural crest cell adhesion and migration. Dev Biol. 1981 Oct 30;87(2):259-66.
12. Greenberg JH. Detection of teratogens by differentiating embryonic cells in culture: evaluation as a screening system. Teratog Carcinog Mutagen. 1982;2(3-4):319-23.
13. Pitha J, Szente L, Greenberg JH. Poly-L-methionine sulfoxide: a biologically inert analogue of dimethyl sulfoxide with solubilizing potency. J Pharm Sci. 1983 Jun;72(6):665-8.
14. Jerdan JA, Varner HH, Greenberg JH, Horn VJ, Martin GR. Isolation and characterization of a factor from calf serum which promotes the pigmentation of embryonic and transformed melanocytes. J Cell Biol. 1985 May;100(5):1493-8.
15. Greenberg JH. Special oversight groups to add protections for population-based repository samples. Am J Hum Genet. 2000 Feb;66(2):745-7.
16. Greenberg JH. The National Institutes of Health announces online availability of "Points to consider when planning a genetic study that involves members of named populations." Am J Hum Genet. 2002 Jun;70(6):1602.
17. Greenberg JH. Investing in the future: NIGMS strategic plan for biomedical and behavioral research training. The Physiologist. 2012 Feb;55:146-7.
18. Rodriguez L, Brooks LD, Greenberg JH, Green ED. The complexities of genomic identifiability. Science. 2013 Jan 18;339(6117):275-6.
19. Hechtman, LA, Moore, NP, Schulkey, CE, Miklos, AC, Calcagno, AM, Aragon, R, and Greenberg, JH. Biomedical research funding by gender: A survival analysis. Proc. Natl. Acad. Sci. USA. 2018 Jul 16. pii: 201800615. doi: 10.1073/pnas.1800615115.

BOOK CHAPTERS

1. Pratt RM, Green RM, Hassell JR, Greenberg JH. Epithelial cell differentiation during secondary palate development. In: Slavkin HC, Greulich RC, editors. Extracellular matrix influences on gene expression. New York: Academic Press; 1975. p. 561-6.
2. Jamieson GA, Greenberg JH, Smith DF. Adhesion and aggregation phenomena in blood platelets. In: Ulutin ON, editor. Proceedings of the international symposium on blood platelets. Amsterdam: Excerpta Medica; 1974. p. 8-11.
3. Pratt RM, Wilk AL, Horigan EA, Greenberg JH, Martin GR. Screening for teratogens in vitro. In: Melnick M, Bixler D, Shields ED, editors. Etiology of cleft lip and cleft palate. New York: Alan R. Liss; 1980. p. 169-72.
4. Greenberg JH, Wilk AL, Horigan EA. Detection of teratogens in vitro using differentiating neural crest cells. In: Gryder R, Frankos VH, editors. Proceedings of the fifth Food and Drug Administration science symposium. The effect of foods and drugs on the development and function of the nervous system: methods for predicting toxicity. Washington, DC: U.S. Department of Health and Human Services; 1980. p. 167-9. HHS Publication No. (FDA) 80-1076.
5. Greenberg JH. Normal and abnormal differentiation of neural crest cells in culture. In: Pratt RM, Christiansen RL, editors. Proceedings of the international symposium on current research trends in prenatal craniofacial development. New York: Elsevier North Holland; 1980. p. 65-80.
6. Greenberg JH. Cranial neural crest cells: inhibition of differentiation in culture. In: Mulvihill JJ, Riccardi V, editors. Neurofibromatosis: genetics, cell biology and biochemistry. New York: Raven Press; 1981. p. 105-13.
7. Greenberg JH. Detection of teratogens by cells in culture. In: Johnson EM, Kochhar DM, editors. Teratogenesis and reproductive toxicology. New York: Springer Verlag; 1983. p. 289-99.