

Curriculum Vita
Paula B. (Smith) Turpen, Ph.D.

Home and Work Addresses:

3525 S. 95th St.
Omaha, NE 68124
402-397-5520

987878 Nebraska Medical Center
Omaha, NE 68198-7878
402-559-6162

Place of Birth:

Malone, New York

Education:

B.S., Biology, Rochester Institute of Technology, Rochester, NY, 1974-1978
Ph.D., Biology, Pennsylvania State University, State College, PA, 1978-1984

Post-Degree Training:

Postdoc, Anatomy, University of Nebraska Medical Center, Omaha, NE, 1984-1988

Academic Appointments:

Instructor, Anatomy, University of Nebraska Medical Center, Omaha, NE, 1988-1991
Research Associate, Obstetrics and Gynecology, UNMC, Omaha, NE, 1991-1995
Research Assistant Professor, Obstetrics and Gynecology, UNMC, Omaha, NE, 1995-2004

Administrative Appointments:

Director, Research Resources, of Nebraska Medical Center, Omaha, NE, 2004-present

Grant and Contract Support:

"Tumor Immunity", University of Nebraska Foundation, 1991-present, \$360,000, Wayne L. Ryan, Ph.D.

"Genetic Analysis of Fetal Cells from Maternal Circulation", Leland J. and Dorothy H. Olson Center for Women's Health, 1995-2000, \$20,000, Paula B. Turpen, Ph.D.

"Clinical Utility of Antigen Markers for Cervical Squamous Epithelial Cells", UNMC Mini Grant, 1997-2001, \$3,678, Kelly L. Molpus, M.D.

"Immune Response to Ovarian Cancer", Leland J. and Dorothy H. Olson Center for Women's Health, 1995-1997, \$44,000, Wayne L. Ryan, Ph.D.

"Stem Cell Differentiation", National Science Foundation, 1991-1994, \$330,000, James B. Turpen, Ph.D.

Patents:

"Improved Flow Cytometry Reagent and System"; 09/747,619; Filed 12, 22, 2000

Products Developed

CD-Chex®, 1992
CD-Chex® CD4 Low, 1994
Cyto-Chex® Reagent, 1995
CD-Chex® Plus, 1996
CD-Chex® CD34 1998
Streck Cytometry Concentrate, 1999
Streck Cytometry Sheath, 1999
Streck Cytometry Lyse, 2001
Cyto-Chex® BCT, in clinical trials

Total sales for FY 2003 \$1,132,813

Professional Societies:

International Society for Analytical Cytology
Clinical Cytometry Society

Committee Assignments:

1996, Member, Mini Medical School Planning Committee, University of Nebraska Medical Center
1990-1991, Chair, Departmental Seminar Committee, Department of Anatomy, UNMC
1990, Co-Chair, Phase 1B Curriculum Committee, University of Nebraska Medical Center
2004- , Research Resources Board
2004- , UNMC Federal Team
2004-2006, Science and Technology Advancement Committee
2004-2007, Comparative Medicine Management System Development
2007- , CTSA Leadership Team
2008- , UNMC Safety Leadership Team

Community Service:

1988-1999, Officer, U.S. Coast Guard Auxiliary
1990-1991, Officer, Montessori Downtown Preschool Co-op, Inc.
1993-1999, Member, Omaha Parents of Multiples Club
1996-1999, Member, Montessori Parent's Co-op for Children
1996, 2002-2004, Chair, Paddock Road Elementary School Community Club
1997-1999, Chair, Daughters of the Nile, Sat-ra Temple #59
1996- Member, Daughters of the Nile, Sat-ra Temple #59
2001-2003, Member, Lotus Dancers, Middle Eastern Dance Troupe
2002- Member Figure Skating Club of Omaha and US Figure Skating
2003-2004, Troop Cookie Manager, Troop #3032, Girls Scouts of America
2003- Board of Directors, Figure Skating Club of Omaha
2004-2007, President, Figure Skating Club of Omaha
2007- Treasurer, Figure Skating Club of Omaha
2003- Co-Chair, Winterfest Invitational Figure Skating Competition

Bibliography:**Articles in non-peer review journals:**

1. Turpen, P.B. Quality assurance issues in CD34 cell enumeration. *American Clinical Laboratory*. 17(3):12-14, 1998.
2. Turpen, P.B. and Collins, M. Reagent for Stabilizing Blood Samples. *American Clinical Laboratory*. 15(8):30-31, 1996.

Articles in peer review journals:

1. Turpen, P.B. and Kennedy, J.E. (submitted) Isolation of mononuclear cells from peripheral blood by Ficoll-Hypaque density gradient separation after treatment with Cyto-Chex® Reagent. *J. Immunol. Methods*.
2. Bechtold, T.E., Smith, P.B. and Turpen, J.B. Differential stem cell contributions to thymocyte succession during development of *Xenopus laevis*. *J. Immunol.* 148:2975-2982.1992.
3. Smith, P.B. and Turpen, J.B. Expression of a leukocyte specific antigen during ontogeny in *Xenopus laevis*. *Developmental Immunology*, 1:295-307, 1991.
4. Turpen, J.B. and Smith, P.B. Location of hematopoietic stem cells influences frequency of lymphoid engraftment in *Xenopus* embryos. *J. Immunol.* 143:3455-3460, 1989.
5. Smith, P.B., Flajnik, M.F. and Turpen, J.B. Experimental analysis of ventral blood island hematopoiesis in *Xenopus* embryonic chimeras. *Develop. Biol.* 131:302-312, 1989.
6. Turpen, J.B. and Smith, P.B. Precursor immigration and thymocyte succession during larval development and metamorphosis in *Xenopus*. *J. Immunol.* 142:41-47, 1989.
7. Turpen, J.B. and Smith, P.B. Analysis of hemopoietic lineage of accessory cells in the developing thymus of *Xenopus laevis*. *J. Immunol.* 136:412-421, 1986.
8. Turpen, J.B. and Smith, P.B. Dorsal lateral plate mesoderm influences proliferation and differentiation of hemopoietic stem cells derived from ventral lateral plate mesoderm of *Xenopus laevis* embryos. *J. Leu. Biol.* 38:415-428, 1985.

9. Smith, P.B. and Turpen, J.B. Hemopoietic differentiation potential of cultured lateral plate mesoderm explanted from Rana pipiens embryos at successive developmental stages. *Differentiation*. 28:244-249, 1985.
10. Smith, P.B. and Turpen, J.B. Differential contribution of dorsal and ventral lateral plate mesoderm to hemopoiesis during Rana pipiens development. *Dev. Biol.* 104:497-499, 1984.
11. Turpen, J.B., Knudson, C.M. and P. Smith-Hoefen. The early ontogeny of hematopoietic cells studied by grafting cytogenetically labeled tissue anlagen: Localization of a prospective stem cell compartment. *Dev. Biol.* 85:99-112, 1981.

Abstracts:

1. Smith V.B. and Turpen, P.B. Cyto-Chex BCT, a new blood collection tube for immunophenotyping by flow cytometry, preserves blood samples for up to one week prior to analyses. *Cytometry: Clinical Cytometry* 56B(1):76, 2003.
2. Turpen, P.B. and Anderson, G.M. "Performance of CD-Chex® CD34: Compatibility with reagents, protocols and long-term stability." *Cytometry: Communications in Clinical*, 38(6):347, 1999.
3. Turpen, P.B. and Anderson, G.M. "Evaluation of CD-Chex CD34 using a variety of protocols and reagents for enumeration of CD34+ cells." *Cancer Research Therapy and Control*", 1999.
4. Boryca, V. and Turpen, P. "Comparative analysis of the change in fluorescence intensity of whole blood stored in various anticoagulants over time." *Cytometry: Communications in Clinical*, 34(6):306-307, 1998.
5. Anderson, G.M. and Turpen, P.B. "Evaluation of stabilized umbilical cord blood as quality control material for CD34 enumeration." *Cytometry: Communications in Clinical*, 34(6):302, 1998.
5. Turpen, P.B. and Blosser, L. "Utility of a lysable whole blood control for accuracy in enumeration of CD34+ cells". *Cytometry: Communications in Clinical Cytometry*. 30(6):349, 1997.

Book Chapters:

1. Turpen, J.B., Flajnik, M.F. and Smith, P.B. Divergence of erythroid restricted precursors from hemopoietic stem cells during early ontogeny. In: "Molecular and Cellular Aspects of Erythropoietin and Erythropoiesis". I.N. Rich, ed. NATO ASI Series H: Cell Biology Vol. 8. Springer-Verlag. pp. 165-176, 1987.
2. Turpen, J.B., Smith-Hoefen, P.B. and Williams, K. Embryogenesis of mononuclear phagocytes in an amphibian experimental model. In: "Mononuclear Phagocyte Biology". A. Volkman, ed. Marcel Dekker. pp. 3-26, 1984.

Invited Presentations at Meetings/Conferences /Symposia:

"Efficient Management and Utilization of Core Facilities, NIH, NCRR, Bethesda, MD, 2009

"Standards for QC/QA in Flow Cytometry". CBER, FDA. Bethesda, MD, 1997.

"CD34 stem cell quality assessment". FAST Systems, Inc. Bethesda, MD, 1997.

"Thymocyte succession during larval development." *Developmental Immunology of Xenopus*. Sarasota, FL. 1989.

"Hemopoiesis during amphibian embryogenesis". *Immunology of Ectothermic Vertebrates*. Rochester, NY. 1986.

"Regulation of stem cell differentiation during embryogenesis". *Immunology of Development*. Durham, England. 1987.