

PUBLICATIONS OF SANDRA C. MILLER

Full Papers In Peer-Reviewed Journals, 1973-2013

Miller, S.C. and Osmond, D.G. (1973) The proliferation of lymphoid cells in guinea pig bone marrow. *Cell Tissue Kinet.* 6: 259-269.

Osmond, D.G., **Miller, S.C.** and Yoshida, Y. (1973) Kinetic and hemopoietic properties of lymphoid cells in the bone marrow. *Haemopoietic Stem Cells. CIBA Foundation Symposium (Wolstenholme, G.E.W. and M. O'Connor, eds.) ASP, Elsevier/North Holland Press, Amsterdam, pp. 131-156.*

Miller, S.C. and Osmond, D.G. (1974) Quantitative changes with age in bone marrow cell populations of C3H mice. *Exp. Hemat.* 2: 227-236.

Miller, S.C. and Osmond, D.G. (1975) Lymphocyte populations in mouse bone marrow: quantitative kinetic studies in young, pubertal and adult C3H mice. *Cell Tissue Kinet.* 8: 97-110.

Miller, S.C. and Osmond, D.G. (1976) Quantitative studies of lymphocytes and other cell populations in the bone marrow of neonatally thymectomized mice. *Anat. Rec.* 184: 325-333.

Miller, S.C., Kaiserman, M. and Osmond, D.G. (1977) Small lymphocyte production and lymphoid cell proliferation in mouse bone marrow. *Experientia* 134: 129-131.

Yang, W.C., **Miller, S.C.** and Osmond, D.G. (1978) maturation of bone marrow lymphocytes. II. Development of Fc and complement receptors and surface immunoglobulin studies by rosetting and radioautography. *J. Exp. Med.* 148: 1251-1270.

Kanamaru, A. Durban, E. Gallagher, M.T., **Miller, S.C.** and Trentin, J.J. (1980) Augmentation of erythroid burst formation by the addition of thymocytes and other myelo-lymphoid cells. *J. Cell Physiol.* 104: 187-197.

Miller, S.C. (1981) Failure to demonstrate morphologically the presence of colostrum or milk cells in the wall of the gastrointestinal tract of the suckling neonatal mouse. *J. Reprod. Immunol.* 3: 187-194.

Miller, S.C. (1981) Genetic resistance to transplantation of xenogeneic bone marrow in mice of various strains: influence of an interferon inducer and age. *Scand. J. Immunol.* 14: 515-532.

Miller, S.C. (1982) Production and renewal of murine natural killer cells in the spleen and bone marrow. *J. Immunol.* 129: 2282-2286.

Miller, S.C. (1983) Genetically determined resistance to foreign bone marrow transplantation: characteristics of the effector cells. *J. Immunol.* 131: 92-97.

Miller, S.C. (1984) Life history of cells mediating natural resistance to tumor cells and bone marrow transplants: The respective roles of cell lineage commitment and host environment in determining strain characteristics of natural resistance to foreign marrow grafts. *Amer. J. Anat.* 170:367-376.

Nassiry, L. and **Miller, S.C.** (1987) Renewal of natural killer cells in mice having elevated natural killer cell activity. *Nat. Immun. Cell Growth Reg.* 6: 250-259.

Miller, S.C., Galley, D. and Nguyen, D. (1988) Inhibition of natural killer cell mediated lysis of tumor cells by normal and regenerating bone marrow. *Immunobiol.* 177: 82-90.

Miller, S.C., Nguyen, D. and Bird, I. (1988) The effect of bearing tumors on the ability of mice to reject bone marrow transplants. *Scand. J. Immunol.* 27: 427-432.

Miller, S.C. and Poirier, L. (1988) Characteristics of cells mediating spontaneous resistance to bone marrow allografts. *Immunobiol.* 178: 191-202.

Miller, S.C. and Christopher, F.L. (1989) Altered production and renewal of natural killer cells in B lymphocyte-deficient CBA/N mice. *Nat. Immun. Cell Growth Reg.* 8: 245-254.

Christopher, F.L. and **Miller, S.C.** (1991) Effects of low pathogen environment on natural killer cells of normal and B lymphocyte-deficient mice. *Nat. Immun. Cell Growth Reg.* 10: 216-225.

Miller, S.C. and Shatz, A. (1991) Relationship between large and small tumor-binding cells in the spleen and bone marrow. *Nat. Immun. Cell Growth Reg.* 10: 320-326.

Christopher, F.L., Dussault, I. and **Miller, S.C.** (1991) Population dynamics of natural killer cells in the spleen and bone marrow of normal and leukemic mice during *in vivo* exposure to interleukin-2. *Immunobiol.* 184: 37-59.

Miller, S.C., Christopher, F.L. and Dussault, I. (1992) Population dynamics of natural killer cells and T lymphocytes in murine spleen and bone marrow during the development of erythroleukemia: The effect of indomethacin. *Nat. Immun.* 11: 78-92.

Miller, S.C. (1992) Age-related differences in the effect of *in vivo* administration of indomethacin on hemopoietic cell lineages of the spleen and bone marrow of mice. *Experientia* 48: 674-678.

Dussault, I. and **Miller, S.C.** (1993) Stimulation of natural killer cell numbers but not function in leukemic infant mice: A system primed in infancy allows survival in adulthood. *Nat. Immun.* 12: 66-78.

Miller, S.C., Fleming, W.H., Zsebo, K.M. and Weissman, I.L. (1993) The *in vivo* effects of stem cell factor on hemopoietic and natural killer lineage cells in murine spleen and bone marrow. *Nat. Immun.* 12: 293-301.

Miller, S.C. (1994) The development of natural killer (NK) cells from Thy-1^{lo} Lin⁻ Sca-1⁺ stem cells: Acquisition by NK cells of the homing receptor MEL-14 and the integrin Mac-1. *Immunobiol.* 190: 385-398.

Dussault, I. and **Miller, S.C.** (1994) Decline in natural killer cell-mediated immunosurveillance in aged mice: A consequence of reduced cell production and tumor binding capacity. *Mechan. Ageing & Dev.* 75: 115-129.

Dussault, I. and **Miller, S.C.** (1995) Suppression of natural killer cell activity in infant mice occurs after target cell binding. *Nat. Immun.* 14: 35-43.

Dussault, I. and **Miller, S.C.** (1995) Effectiveness of immunotherapy in aged leukemic mice. *Gerontology* 41(4): 195-204.

Giboda M., Jacobs, P., Smith, J.M. and **Miller, S.C.** (1995) Immune response of mice infected with *Schistosoma mansoni* is modulated by antifibrotic treatment. *Annals of Trop. Med. Parasit.* 89(4): 415-424.

Dussault, I. and **Miller, S.C.** (1996) The effect on leukemia cell numbers of *in vivo* administration of immunotherapeutic agents is age dependent. *Oncology* 53: 241-246.

Miller, S. C. and Kearney, S.L. (1997) Effect of *in vivo* administration of trans retinoic acid on the hemopoietic cell populations of spleen and bone marrow: Profound strain differences between A/J and C57Bl/6J mice. *Lab. An. Sci.* 48(1): 74-80.

Whyte, A.L. and **Miller, S.C.** (1998) Strain differences in natural killer cell-mediated immunity among mice: A possible mechanism for the low natural killer cell activity of A/J mice. *Immunobiol.* 199: 23-38.

Currier, N.L. and **Miller, S.C.** (1998) Influence of an interferon inducer on bone marrow transplant reconstitution in irradiated, leukemic mice: Elevated natural killer cell numbers and improved life span. *Nat. Immun.* 16: 6-17.

Mahoney, M.X., Currier, N.L. and **Miller, S.C.** (1998) Natural killer cell levels in older mice are gender dependent: Thyroxin is a gender independent natural killer cell stimulant. *Nat. Immun.* 16: 165-174.

Sun, L.Z-Y., Currier, N.L. and **Miller, S.C.** (1999) The American coneflower: A prophylactic role involving non-specific immunity. *Jour. Alt. & Comp. Med.* 5 (5): 437-446.

Currier, N.L., Sun, L. Z-Y. and **Miller, S.C.** (2000) Exogenous melatonin: Quantitative enhancement *in vivo* of cells mediating non-specific immunity. *Jour. Neuroimmunol.* 104:101-108.

Yu, Q., **Miller, S.C.** and Osmond, D.G. (2000) Melatonin inhibits apoptosis during early B cell development in mouse bone marrow. *Jour. Pineal Res.* 29: 86-93.

Currier, N.L. and **Miller, S.C.** (2000) Natural killer cells from aging mice treated with extracts from *Echinacea purpurea* are quantitatively and functionally rejuvenated. *Exp. Gerontol.* 35(5): 627-639.

Currier, N.L. and **Miller, S.C.** (2001) TNF- α further augments natural killer cells when co-administered with an interferon inducer to irradiated, leukemic, bone marrow-transplanted mice. *Cancer Chemotherapy & Pharmacology* . 47(2): 185-188.

Currier, N.L. and **Miller, S.C.** (2001) *E. purpurea* and melatonin augment natural killer cells in leukemic mice and prolong life span. *J. Alt. & Comp. Med.* 7(3): 241-251.

Currier, N.L., Sicotte, M. and **Miller, S.C.** (2001) Deleterious influence of *Echinacea purpurea* and melatonin on cells of the myeloid lineage in the spleen and bone marrow of mice. *Jour. Leukocyte Biol.* 70: 274-277.

Currier, N.L. and **Miller S.C.** (2002) The effect of immunization with killed tumor cells, with/without feeding of *E. purpurea* in an erythroleukemic mouse model. *J. Alt. & Comp. Med.* 8(1): 49-58.

Miller, S.C. (2002) Hemopoietic reconstitution of irradiated, stem cell injected mice: Dynamics of restoration of various cell lineages of the spleen and bone marrow. *Jour. Hematother. Stem Cell Res.* 11(6): 965-970.

Currier, N.L., Lejtenyi, D. and **Miller, S.C.** (2003) The effect with time of administration *in vivo*, of the polysaccharide, arabinogalactan, on the immune and hemopoietic cell lineages in murine spleen and bone marrow. *Phytomedicine* 10(2-3): 145-153.

Lejtenyi, D., Osmond, D.G. and **Miller, S.C.** (2003) Natural killer cells and B lymphocytes in L-selectin and Mac-1/LFA-1 knockout mice: Marker dependent but not cell lineage dependent changes in the spleen and bone marrow. *Immunobiology* 207: 129-135.

Miller, S.C. (2004) *Echinacea* in vivo: A prophylactic agent in normal mice and a therapeutic agent in leukemic mice. In: *Medicinal and Aromatic Plants - Echinacea: The Genus Echinacea* (ed: **Miller, S.C.**) CRC Press, Boca Raton, FL, p. 153-162.

Miller, S.C. (2004) Two immunoenhancers are not better than one. In: *Medicinal and Aromatic Plants - Echinacea: The Genus Echinacea* (ed: **Miller, S.C.**) CRC Press, Boca Raton, FL, p. 219-230.

Brousseau, M. and **Miller, S.C.** (2005) Enhancement of natural killer cells and increased survival of adult mice fed daily *Echinacea* root extract from youth. *Biogerontology* 6: 157-163.

Miller, S.C. (2005) *Echinacea*: A miracle herb against aging and cancer? Evidence *in vivo*, in mice. *eCAM: Evidence-based Complementary and Alternative Medicine* 2(3): 309-314.

Delorme, D. and **Miller, S.C.** (2005) Dietary consumption of the herb, *Echinacea*, by mice afflicted with autoimmune (type I) diabetes: The effect on their hemopoietic and immune cells is feeding duration dependent. *Autoimmunity* 38(6): 453-461.

Srinivasan, V., Maestroni, G.J.M., Cardinali, D.P., Esquifini, A.I., Pandi-Perumal, S.R., and **Miller, S.C.** (2005) Melatonin, immune function and aging. *Immunity & Ageing* 2:17- 49. HIGHLY ACCESSED status at <http://www.biomedcentral.com>

Chow, G., T. Johns and **Miller, S.C.** (2006) Dietary *Echinacea purpurea* during murine pregnancy: Effect on maternal hemopoiesis and fetal growth *Biology of the Neonate* 89: 133-138.

Miller, S.C., Pandi, P.S.R., Esquifino, A.I., Cardinali, D.P. and Maestroni, G.J.M. (2006) The role of melatonin in immuno-enhancement: potential application in cancer. *Jour. Exp. Path.* 87(2): 81-87.

Brousseau, M. and **Miller, S.C.** (2007) The effects of *Echinacea* root extract in plasmacytoma-bearing mice: Enhancement of non-specific immunity. *Jour. Herbs & Med. Plants* 13(2):11-23 .

Miller, S.C., Delorme, D. (2008) An extract of North American ginseng, *Panax quinquefolius*, stimulates spontaneous immunity in infant mice: Sustained, augmented immunity in adulthood long after withdrawal of the extract. *Jour. Comp. Int. Med.* 5(1): 1-16.

Miller, S.C., Delorme, D. and Shan, J. (2009) CVT-E002, a proprietary extract of *Panax quinquefolius*, stimulated the immune system and significantly extends the life span of leukemic mice: Analysis of the hemopoietic and immune cells *in vivo*. *Journal of the Society for Integrative Oncology* 7(4):127 – 136.

Miller, S.C., Delorme, D., Shan, J.J. A proprietary extract of North American ginseng (*Panax Quinquefolius*), administered to leukemic, juvenile mice extends their life span in a dose-dependent manner. *Journal of Complementary and Integrative Medicine* 8(1): article 10. DOI: 10.2202/1553-3840.1315

Miller, S.C., Ti, L., and Shan, J. (2011) The sustained influence of short term exposure to a proprietary extract of North American ginseng on the hemopoietic cells of the bone marrow, spleen, and blood of adult and juvenile mice. *Phytotherapy Research*, published online – Wiley Online Library. DOI: 10.1002/ptr.3626.

Miller, S.C., Ti, L., Shan, J.J. (2011) Dietary supplementation with an extract of North American ginseng in adult and juvenile mice increases Natural Killer cells. *Immunological Investigations*, published online – Informa Healthcare USA, Inc. DOI: 10.3109/08820139.2011.59909087.

Miller, S.C. (2012) Can herbs be useful in cancer therapy? A review of studies on the influence of Echinacea on cells of the immune system and on tumor amelioration. *Biomedical Research*, 23:9-16.

Durairaj, P. and **Miller, S.C.** (2012) Inhibition/prevention of primary liver tumors in mice given a daily dietary extract of North American ginseng (*Panax quinquefolius*) following a hepatoma-inducing agent. *Biomedical Research*, 23(3): 429-436.

Durairaj, P. and **Miller, S.C.** (2013) Neoplasm prevention and Immuno-enhancement mediated by daily consumption of a proprietary extract from North American Ginseng by elderly mice of a Cancer-prone strain. *Phytotherapy Research* . DOI: 10.1002/ptr.4880; 27:1339-1344.

Durairaj, P., Breda, M. and **Miller, S.C.** (2013) Quantitative augmentation of immune cells in elderly, normal mice by short-term, daily consumption of an extract of North American ginseng (*Panax quinquefolius*). *Biomedical Research*, 24(2): 199-205.