

Peer Reviewed Publications

1. Apeltgren, K.N., D.M. Frim, **C.J. Harling-Berg**, P.H. Gander, M.C. Moore-Ede. Effectiveness of cyclic intragastric feeding as a circadian zeitgeber. *Physiol. Behav.* 34, 335-340, 1985.
2. **Harling-Berg, C.J.**, P. Knopf, H. Cserr- Role of cervical lymph nodes in the systemic humoral immune response to human serum albumin microinfused into CSF. *J. Neuroimmunol.* 25:185-193, 1989.
3. **Harling-Berg, C.J.**, P.M. Knopf, H.F. Cserr. Myelin basic protein infused into cerebrospinal fluid suppresses experimental autoimmune encephalomyelitis in the Lewis rat. *J. Neuroimmunol.* 35:45-91, 1991.
4. Cserr, H.F., M. DePasquale, **C.J. Harling-Berg**, J.T. Park, P.M. Knopf afferent and efferent arms of the humoral immune response to CSF-administered albumin in a rat model with normal blood-brain-barrier permeability. *J. Neuroimmunol.* 44:195-202, 1992.
5. Cserr, H.F., **C.J. Harling-Berg**, P.M. Knopf. Drainage of brain extracellular fluid into blood and deep cervical lymph and its immunological significance. *Brain Path.* 2:269-276, 1992.
6. Knopf, P.M., H.F.Cserr, S.C. Nolan, T.-Y. Wu, **C.J. Harling-Berg**. Physiology and immunology of lymphatic drainage of interstitial and cerebrospinal fluid from the brain. *Neuropath. and Appl. Neurobio.* 21: 175 -180, 1995.
7. Gordon, L.B., S.C. Nolan, P.M. Knopf, **C.J. Harling-Berg**. Growth of P511 mastocytoma cells in Balb/c mouse brain elicits afferent arm of cytotoxic immunity in the periphery without tumor elimination. A new tumor model for regional CNS immunity. *J. Immunol.* 159:2399-2408, 1997.
8. Knopf, P.M., **Harling-Berg, C.J.**, Cserr, H.F., Basu, D., Sirulnick, E.J., Nolan, S.C., Park, J.T., Keir, G., Thompson, E.J., and Hickey, W.F. Intrathecal antibody synthesis in rats with a functionally intact blood-brain barrier: Tissue entry and local retention of antigen-specific. B cells *J. Immunol.* 161:692-701, 1998.
9. Gordon, L.B., S.C. Nolan, B. Ksander, P.M. Knopf and **C.J. Harling-Berg**. Normal cerebrospinal fluid suppresses the in vitro development of cytotoxic T cells: Role of the brain microenvironment in CNS immune regulation. *J. Neuroimmunol.* 88:77-84, 1998.
10. **C. J. Harling-Berg**, J.T. Park and P.M.Knopf. Invited Review: Role of the cervical lymphatics in the Th2-type hierarchy of CNS immune regulation. *J. Neuroimmunol.* 101:111-127, 1999.
11. Hallett, J.J., **C. J. Harling-Berg**, P. M. Knopf, E. G. Stopa, and L. S. Kiessling. Stereotypies and episodic utterances in rats after intrastriatal microinfusion of sera from children with Tourette Syndrome. *J. Neuroimmunol.* 111:195-202, 2000.

Publications in Preparation

1. Paul M. Knopf, **C. J. Harling-Berg**, D. J. Lee, J. J. Hallett, E.G. Stopa and F. Mokhtarian. Microinfusion into the rat brain of antibodies against Semliki Forest Virus produces long lasting changes in behavioral response to apomorphine.

2. Hallett, J.J., K.E. Poskanzer, F. Cardoso, P. M Knopf, and **C. J. Harling-Berg**. Serum from patients with Sydenham's Chorea induces altered behavioral response in rats following microinfusion into brain.
3. Park, J.T. II, S.C. Nolan, P.M. Knopf, and **C. J. Harling-Berg**. Regulation of the peripheral delayed-type hypersensitivity response to albumins infused into the cerebrospinal fluid in a rodent model with normal blood-brain-barrier permeability.
4. Park, J.T. II, J. Szmydynger-Chodobska, P.M. Knopf, and **C. J. Harling-Berg**. Immunological response to brain-administered albumins and rHIV (p24) in a murine model with normal permeability of the blood-brain barrier.

Other Publications

1. Cserr, H.F., **C. J. Harling-Berg**, T. Ichimura, P. Knopf, and S. Yamada. Chapter entitled: Drainage of cerebral extracellular fluids into cervical lymph: an afferent limb in brain/immune system interactions. In: Pathophysiology of the Blood-Brain Barrier: Long Term Consequences of Barrier Dysfunction for the Brain. Editors: B.B. Johansson C. Owman. Elsevier, Fernstrom Symposium Series, Amsterdam, Vol. 14, pp. 413-420, 1990.
2. Cserr, H.F., **C. J. Harling-Berg**, P.M. Knopf. Chapter entitled: Drainage of brain extracellular fluid into blood and deep cervical lymph and its immununological significance. In: Barrier Concepts and CSF Analysis, International Quincke Symposium, pp. 18-21, Sept. 1991.
3. **Harling-Berg, C. J.**, J.J. Hallett, J.T. Park, and P.M. Knopf. Chapter entitled: Hierarchy of immune responses to antigen in the normal brain. In: Current Topics in Microbiology and Immunology: Protective and Pathological and Immune Responses in the CNS. Editors: B. Dietzschold and Juergen Richt. Springer-Verlag, Berlin. pp. 1-22, 2002. Also assisted in peer review of chapters.

Abstracts

1. **Harling-Berg, C. J.**, P.M. Knopf, and H.F. Cserr. Cervical lymph nodes secrete antibodies specific for human serum albumin (HSA) microinfused into cerebrospinal fluid (CSF). The Second World Congress of Neuroscience, Abstracts. Neuroscience Vol. 22, Supplement. 1697P, 1987.
2. **Harling-Berg, C. J.**, M. DePasquale, P. Knopf, and H.F. Cserr. Ratio of cerebrospinal fluid (CSF) to serum antibody titers are higher following central than systemic immunization in the normal rat. The Second World Congress of Neuroscience, Abstracts. Neuroscience Vol. 22, Supplement. 1698P, 1987.
3. **Harling-Berg, C. J.**, P.M.Knopf, and H.F. Cserr. Immune response to CSF-infused myelin basic protein (MBP) in the Lewis rat. Neuroscience Abstracts. 2:1209, 1990.
4. Knopf, P.M., **C.J. Harling-Berg**, L.B. Gordon, and H.F. Cserr. Immune responses to protein antigens infused into CSF. FASEB oral presentation, 1992.

5. **Harling-Berg, C.J.**, R.A. Sobel, P.M. Knopf, and H.F. Cserr. The role of immune cells in the suppression of EAE induced by CSF-infused MBP, *Neuroscience Abstracts*. 2: 1011, 1992.
6. Park, J.T., **C.J. Harling-Berg**, and P.M. Knopf. Characterization of the peripheral immune response to ovalbumin microinfused into the normal mouse brain. *Society for Neuroscience, Abstracts* 21: 1152, 1995.
7. Gordon, L.B., S.C. Nolan, **C. J. Harling-Berg**, and P. M. Knopf. Normal cerebrospinal fluid inhibits development of tumor-specific CTL activity from BALB/c mouse splenocytes following tumor infusion into brain. *FASEB J.*, 10: A1471, 1996.
8. Hallett, J.J., **C. J. Harling-Berg**, J. R. Agrawal, P. M. Knopf, and L. S. Kiessling, . Tic-like phonation and dyskinesia in rats after intracaudate microinfusion of serum from children with Tourette syndrome. *FASEB J.*, 10: A1357, 1996.
9. Nolan, S.C., **C. J. Harling-Berg**, and P. M. Knopf. CSF-infused protein elicits a DTH response in Lewis but not Sprague-Dawley rats. *FASEB J.*, 10:A1075, 1996.
10. Park, J.T., , **C. J. Harling-Berg**, and P.M. Knopf. CSF-administered albumins stimulate antibody but not DTH in Balb/c mice. *FASEB J.*, 10:A1075, 1996.
11. Szmydynger-Chodobska, J., S.C. Nolan, **C. J. Harling-Berg**, and P. M. Knopf. Trafficking of B and T lymphocytes to the brain following antigen infusion into caudate putamen of passively immunized Lewis rats. *Society for Neuroscience, Abstracts* 22: 52.1996.
12. Park, J.T., **C. J. Harling-Berg**, and P. M. Knopf. DTH kinetics to CSF-administered albumin in the Balb/c mouse. *Society for Neuroscience, Abstracts* 22: 1792,1996.
13. **Harling-Berg, C.J.**, Nguyen, L.H., Dale, J.B., Stopa, E., Knopf, P.M., and Hallett, J.J. Microinfusion of rat antisera specific for rheumatogenic strptococcal M protein into naive rat brain elicits abnormal motor behavior and IgG binding in ventral striatum. *Society for Neuroscience Abstract presented as poster at Neuroscience meeting Orlando, FL Nov. 2002.*