Title: Aerobic Exercise Effects on Neuroprotection and Brain Repair Following Stroke: A Systematic Review and Perspective

Author: Mark W. Austin Michelle Ploughman Lindsay Glynn Dale R. Corbett

PII: S0168-0102(14)00118-7
DOI: http://dx.doi.org/doi:10.1016/j.neures.2014.06.007
Reference: NSR 3699

To appear in: *Neuroscience Research*

Received date: 5-3-2014
Revised date: 4-5-2014
Accepted date: 24-6-2014

Please cite this article as: Austin, M.W., Ploughman, M., Glynn, L., Corbett, Dr.D.R.,Aerobic Exercise Effects on Neuroprotection and Brain Repair Following Stroke: A Systematic Review and Perspective, *Neuroscience Research* (2014), http://dx.doi.org/10.1016/j.neures.2014.06.007

Aerobic Exercise Effects on Neuroprotection and Brain Repair Following Stroke: A Systematic Review and Perspective

Mark W. Austin*, Dr. Michelle Ploughman*, Lindsay Glynn**, Dr. Dale R. Corbett[§]

*Recovery and Performance Laboratory, Faculty of Medicine, Memorial University of Newfoundland, NL, Canada

**Health Sciences Library, Faculty of Medicine, Memorial University of Newfoundland, NL, Canada

[§]Canadian Partnership for Stroke Recovery and Department of Cellular and Molecular Medicine, University of Ottawa, Ontario, Canada

Running Head: Post-stroke aerobic exercise and brain repair

Corresponding author: Dr. Michelle Ploughman, Recovery and Performance Laboratory, L.A. Miller centre. 100 Forest Rd. St. John's NL, Canada A1A 1E5 ph. 1 709 777 2099; fax. 1 709 777 2802; email michelle.ploughman@med.mun.ca

Key words: cerebrovascular accident, stroke, neuroplasticity, exercise, physical activity, inflammation, rehabilitation, physical therapy, ischemia, systematic review