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PAIN CATASTROPHIZING MODERATES CHANGES IN SPINAL CONTROL IN RESPONSE TO NOXIOUSLY INDUCED LOW BACK PAIN

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1

1 PAIN CATASTROPHIZING MODERATES CHANGES IN SPINAL CONTROL IN 2 RESPONSE TO NOXIOUSLY INDUCED LOW BACK PAIN 3 ***Original Article*** 4 5 Gwyneth B. Ross^{1,2}, Peter J. Sheahan², Brian Mahoney³, Brendon J. Gurd² Paul W. Hodges⁴, 6 and Ryan B. Graham^{1,2*} 7 8 ¹School of Human Kinetics, Faculty of Health Sciences, University of Ottawa, Ottawa, Ontario, 9 Canada 10 ²School of Kinesiology and Health Studies, Faculty of Arts & Science, Queen's University, 11 Kingston, Ontario, Canada 12 13 ³School of Medicine, Faculty of Health Sciences, Queen's University, Kingston, Ontario, Canada 14 15 ⁴School of Health and Rehabilitation Sciences, Faculty of Health and Behavioural Sciences, The 16 University of Queensland, Brisbane, Queensland, Australia 17 18 Submitted to: Journal of Biomechanics 19 March 23rd, 2017 20 Keywords: biomechanics, Lyapunov exponents, psychosocial, kinematics, local dynamic stability 21 22 23 * Corresponding Author: Ryan B. Graham, PhD 24 **Assistant Professor** 25 School of Human Kinetics 26 Faculty of Health Sciences 27 University of Ottawa 28 125 University Private 29 Ottawa, ON K1N 6N5 30 E-mail: rgraham@uottawa.ca 31 32 Phone: +1 613 562 5800 x 1025

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33

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