



Titre: Cerebral tissue pO2 response to treadmill exercise in awake mice.

Title: Supplément

Auteurs: | Mohammad Moeini, Christophe Cloutier-Tremblay, Xuecong Lu,

Authors: Ashok Kakkar, & Frédéric Lesage

Date: 2020

Type: Article de revue / Article

Référence: Moeini, M., Cloutier-Tremblay, C., Lu, X., Kakkar, A., & Lesage, F. (2020). Cerebral

Citation: tissue pO2 response to treadmill exercise in awake mice. Scientific Reports, 10(1),

Citation: 13358 (11 pages). https://doi.org/10.1038/s41598-020-70413-3

Document en libre accès dans PolyPublie

Open Access document in PolyPublie

URL de PolyPublie: PolyPublie URL:	https://publications.polymtl.ca/9290/
Version:	Matériel supplémentaire / Supplementary material Révisé par les pairs / Refereed
Conditions d'utilisation: Terms of Use:	Creative Commons Attribution 4.0 International (CC BY)

Document publié chez l'éditeur officiel

Document issued by the official publisher

Titre de la revue: Journal Title:	Scientific Reports (vol. 10, no. 1)
Maison d'édition: Publisher:	Springer Nature
URL officiel: Official URL:	https://doi.org/10.1038/s41598-020-70413-3
Mention légale: Legal notice:	This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/.

Supplementary Information

Cerebral tissue pO2 response to treadmill exercise in awake mice

Mohammad Moeini 1,2 , Christophe Cloutier-Tremblay 3 , Xuecong Lu 2,3 , Ashok Kakkar 4 , Frédéric Lesage 2,3 *

¹ Department of Biomedical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

² Research Center of Montreal Heart Institute, Montréal, QC, Canada

³ Biomedical Engineering Institute, École Polytechnique de Montréal, Montréal, QC, Canada

⁴ Department of Chemistry, McGill University, Montréal, QC, Canada

Supplementary Video 1. Improvement of animal's running skills on the treadmill during the training sessions (2 sessions per day). The length of the time that mice were restrained and the maximum running speed were gradually increased each day.

Supplementary Video 2. After training, animals were able to run very well on the treadmill under imaging setups.

Supplementary Videos 3-6. Representative space-time images from two-photon longitudinal and perpendicular line scans of capillaries at the exercise level 3 (L3), showing minimal capillary movement and reliable measurements.