



Titre: Author Correction: Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers
Title:

Auteurs: Julien Cohen-Adad, Eva Alonso Ortiz, Mihael Abramovic, Carina Arneitz, Nicole Atcheson, Laura Barlow, Robert Barry, Markus Barth, Marco Battiston, Christian Büchel, Matthew D. Budde, Virginie Callot, Anna J.E. Combes, Benjamin De Leener, Maxime Descoteaux, Paulo Loureiro de Sousa, Marek Dostál, Julien Doyon, Adam Dvorak, Falk Eippert, Karla R. Epperson, Kevin S. Epperson, Patrick Freund, Jürgen Finsterbusch, Alexandru Foias, Michela Fratini, Issei Fukunaga, Claudia Angela M. Gandini Wheeler-Kingshott, Guillaume Gilbert, Federico Giove, Charley Gros, Francesco Grussu, Akifumi Hagiwara, Pierre-Gilles Henry, Tomas Horak, Masaaki Hori, James M. Joers, Kazutaka Kamiya, Haleh Karbasforoushan, Miloš Keřkovský, Ali Khatibi, Joo-Won Kim, Nawal Kinany, Hagen H. Kitzler, Shannon Kolind, Yazhuo Kong, Petr Kudlička, Paul Kuntke, Nyoman D. Kurniawan, Slawomir Kusmia, René Labounek, Maria Marcella Lagana, Cornelia Laule, Christine S. Law, Christophe Lenglet, Tobias Leutritz, Yaou Liu, Sara Llufrui, Sean Mackey, Eloy Martinez-Heras, Igor Nestrasil, Kristin P. O'Grady, Nico Papinutto, Daniel S. Papp, Deborah Pareto, Todd B. Parrish, Anna Pichiecchio, Ferran Prados, Alex Rovira, Marc J. Ruitenber, R. Samson, Maryam Seif, Alan C. Seifert, Alex K. Smith, Seth A. Smith, Zachary A. Smith, Elisabeth Solana, Yudai Suzuki, George Tackley, Alexandra Tinnermann, Jan Valošek, Dimitri Van De Ville, Marios C. Yiannakas, Kenneth A. Weber, Nikolaus Weiskopf, Richard G. Wise, Patrik O. Wyss, & Junqian Xu
Authors:

Date: 2021

Type: Article de revue / Article

Référence: Cohen-Adad, J., Alonso Ortiz, E., Abramovic, M., Arneitz, C., Atcheson, N., Barlow, L., Barry, R., Barth, M., Battiston, M., Büchel, C., Budde, M. D., Callot, V., Combes, A. J.E., De Leener, B., Descoteaux, M., Sousa, P. L., Dostál, M., Doyon, J., Dvorak, A., ... Xu, J. (2021). Author Correction: Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. *Scientific Data*, 8(1), 251 (2 pages). <https://doi.org/10.1038/s41597-021-01044-0>
Citation:

 **Document en libre accès dans PolyPublie**
Open Access document in PolyPublie

URL de PolyPublie: <https://publications.polymtl.ca/54300/>
PolyPublie URL:



Version:	Version officielle de l'éditeur / Published version Révisé par les pairs / Refereed
Conditions d'utilisation: Terms of Use:	CC BY



Document publié chez l'éditeur officiel

Document issued by the official publisher

Titre de la revue: Journal Title:	Scientific Data (vol. 8, no. 1)
Maison d'édition: Publisher:	Nature Portfolio
URL officiel: Official URL:	https://doi.org/10.1038/s41597-021-01044-0
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. Te 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/ .



OPEN

Author Correction: Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers

Published online: 23 September 2021

Julien Cohen-Adad , Eva Alonso-Ortiz, Mihael Abramovic, Carina Arneitz, Nicole Atcheson , Laura Barlow, Robert L. Barry, Markus Barth , Marco Battiston, Christian Büchel , Matthew Budde, Virginie Callot , Anna J. E. Combes, Benjamin De Leener, Maxime Descoteaux, Paulo Loureiro de Sousa , Marek Dostál , Julien Doyon, Adam Dvorak , Falk Eippert, Karla R. Epperson, Kevin S. Epperson, Patrick Freund , Jürgen Finsterbusch, Alexandru Foias, Michela Fratini, Issei Fukunaga, Claudia A. M. Gandini Wheeler-Kingshott, Giancarlo Germani, Guillaume Gilbert, Federico Giove , Charley Gros , Francesco Grussu, Akifumi Hagiwara, Pierre-Gilles Henry, Tomáš Horák, Masaaki Hori , James Joers , Kouhei Kamiya, Haleh Karbasforoushan , Miloš Keřkovský, Ali Khatibi , Joo-Won Kim, Nawal Kinany, Hagen H. Kitzler , Shannon Kolind, Yazhuo Kong , Petr Kudlíčka , Paul Kuntke, Nyoman D. Kurniawan , Slawomir Kusmia, René Labounek , Maria Marcella Laganà , Cornelia Laule, Christine S. Law , Christophe Lenglet , Tobias Leutritz , Yaou Liu, Sara Llufriu, Sean Mackey, Eloy Martinez-Heras , Loan Mattera, Igor Nestrail , Kristin P. O'Grady , Nico Papinutto, Daniel Papp, Deborah Pareto, Todd B. Parrish, Anna Pichiecchio, Ferran Prados , Àlex Rovira, Marc J. Ruitenber , Rebecca S. Samson, Giovanni Savini , Maryam Seif, Alan C. Seifert, Alex K. Smith, Seth A. Smith, Zachary A. Smith, Elisabeth Solana, Y. Suzuki, George Tackley , Alexandra Tinnermann, Jan Valošek , Dimitri Van De Ville , Marios C. Yiannakas, Kenneth A. Weber II , Nikolaus Weiskopf , Richard G. Wise, Patrik O. Wyss & Junqian Xu

Correction to: *Scientific Data* <https://doi.org/10.1038/s41597-021-00941-8>, published online 16 August 2021

In the original version of this Data Descriptor, the Figure 4 legend was a duplicate of the Figure 3 legend. The Figure 4 legend has now been corrected to read as follows in both the PDF and HTML versions of the Data Descriptor:

Examples of image artifacts: (a) T1w MPRAGE taken in the same participant (from the single subject database) at two different sites on a Siemens Prisma: oxfordFmrib (left) and juntendoPrisma (right). The slightly larger cervical lordosis on the left likely induced more pronounced cerebrospinal fluid (CSF) flow and SC motion resulting in the artifact shown in the axial view. (b) T2w scans showing signal drops in the CSF likely due to a poorly-recovered CSF signal combined with flow effects. These two participants (beijingVerio01 and strasbourg03), were acquired with a flip angle of 180° instead of the recommended 120°, which likely explained the presence of those artifacts (longer TR was required for sufficient T1 recovery). (c) Axial view of ME-GRE scans with (fslAchieva04, 1st row) and without motion (brnoCeitec01, 2nd row), and axial view of GRE-MT0 with (fslAchieva04, 3rd row) and without motion (barcelona04, 4th row). (d) Mean DWI scan from a Philips site (ubc02, left panel) with a concatenated acquisition wherein odd slices are acquired during the first half of the entire acquisition (spanning all b-vectors) and the even slices are acquired during the second half. In the event of participant motion between those two acquisition sub-sets, apparent motion will be visible between the odd and even slices. When odd and even slices are acquired closer in time (in ascending/descending mode, or interleaved but sequentially within the

same b-vector), this artifact is not visible (mountSinai03, right panel). Such an artifact could be problematic for image registration with regularization along the S-I axis, or for performing diffusion tractography. (e) $b = 0$ image from a DWI scan (perform02) acquired with poor shimming and resulting signal dropout. (f) Another example of poor shimming resulting in sub-efficient fat saturation, with the fat being aliased on top of the SC. Here we show the mean DWI scan of a participant from the single subject database (perform). (g) Effect of pulsatile movement on a non-cardiac gated acquisition (single subject, juntendoAchieva). Diffusion-weighted scans (sagittal view) acquired at three b-vecs fairly orthogonal to the SC (i.e., diffusion-specific signal attenuation should be minimum in the SC), showing abrupt signal drop at a few slices (red arrows), likely due to cardiac-related pulsatile effects.



Open Access 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/>.

© The Author(s) 2021