



OPEN ACCESS

APPROVED BY

Frontiers Editorial Office. Frontiers Media SA, Switzerland

Alexandre G. Lellouch, □ alellouch@mgb.org

RECEIVED 22 April 2025 ACCEPTED 22 April 2025 PUBLISHED 20 May 2025

Van Dieren L, Ruzette AA, Tereshenko V, Oubari H. Berkane Y. Cornacchini J. Thiessen EF F, Cetrulo CL Jr., Uygun K and Lellouch AG (2025) Corrigendum: Computational modeling of superparamagnetic nanoparticle-based (affinity) diagnostics. Front, Bioena, Biotechnol, 13:1610782. doi: 10.3389/fbioe.2025.1610782

© 2025 Van Dieren, Ruzette, Tereshenko, Oubari, Berkane, Cornacchini, Thiessen EF, Cetrulo, Uvgun and Lellouch, This is an openaccess article distributed under the terms of the Creative Commons Attribution License (CC BY).

The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

Corrigendum: Computational modeling of superparamagnetic nanoparticle-based (affinity) diagnostics

Loï Van Dieren^{1,2,3,4,5}, Antoine A. Ruzette⁶, Vlad Tereshenko³, Haïzam Oubari^{2,3,4}, Yanis Berkane^{4,7}, Jonathan Cornacchini^{2,3}, Filip Thiessen EF^{5,8,9,10}, Curtis L. Cetrulo Jr.^{2,3,4,11}, Korkut Uygun^{1,4} and Alexandre G. Lellouch 2,3,4,11,12,13*

¹Center for Engineering in Medicine and Surgery, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, ²Vascularized Composite Allotransplantation Laboratory, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, ³Division of Plastic and Reconstructive Surgery, Massachusetts General Hospital, Harvard Medical School, Boston, MA, United States, ⁴Shriners Children's Boston, Boston, MA, United States, ⁵Faculty of Medicine and Health Sciences, University of Antwerp, Wilrijk, Belgium, ⁶Department of Systems Biology, Harvard Medical School, Boston, MA, United States, 7 Department of Plastic, Reconstructive and Aesthetic Surgery, CHU Rennes, University of Rennes, Rennes, France, 8Gynaecological Oncology Unit, Department of Obstetrics and Gynaecology, Multidisciplinary Breast Clinic, Antwerp University Hospital, University of Antwerp, Antwerp, Belgium, ⁹Department of Plastic, Reconstructive and Aesthetic Surgery, Multidisciplinary Breast Clinic, Antwerp University Hospital, Antwerp, Belgium, ¹⁰Department of Plastic, Reconstructive and Aesthetic Surgery, Ziekenhuis Netwerk Antwerpen, Antwerp, Belgium, ¹¹Division of Plastic and Reconstructive Surgery, Cedars Sinai Medical Center, Los Angeles, CA, United States, ¹²Unité; Mixte de Recherche UMR 1236 Suivi Immunologique des Thérapeutiques Innovantes, INSERM and University of Rennes, Rennes, France, ¹³Unité; Mixte de Recherche UMR-S 1140 Innovative Therapies in Haemostais, INSERM and University of Paris, Paris, France

KEYWORDS

coil, COMSOL, diagnostic, iron oxide, magnetic nanoparticles, superparamagnetism

A Corrigendum on

Computational modeling of superparamagnetic nanoparticle-based (affinity) diagnostics

by Van Dieren L, Tereshenko V, Oubari H, Berkane Y, Cornacchini J, Thiessen EF F, Cetrulo CL Jr, Uygun K and Lellouch AG (2024). Front. Bioeng. Biotechnol. 12:1500756. doi: 10.3389/fbioe. 2024 1500756

In the published article, the author Antoine A. Ruzette was erroneously excluded. The correct author list appears above.

The Author Contributions statement has therefore been updated as follows:

"LV: conceptualization, data curation, formal analysis, investigation, methodology, software, validation, writing-original draft, writing-review and editing, funding acquisition, project administration, resources, supervision, and visualization. AAR: formal analysis, investigation, methodology, software, writing-review and editing. VT: investigation, validation, and writing-original draft. HO: validation and writing-review and editing. YB: investigation and writing-review and editing. JC: validation and writing-review and editing. FT: investigation, supervision, validation, and writing-review and editing. CC: investigation, supervision, validation, and writing-review and editing. KU: investigation,

Van Dieren et al. 10.3389/fbioe.2025.1610782

supervision, validation, and writing–review and editing. AL: conceptualization, data curation, formal analysis, funding acquisition, investigation, methodology, project administration, resources, software, supervision, validation, visualization, and writing–review and editing."

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.