



This is a repository copy of *Phenotyping asthma and/or COPD using 129Xe MRI and comprehensive physiologic testing*.

White Rose Research Online URL for this paper:

<https://eprints.whiterose.ac.uk/id/eprint/233119/>

Version: Supplemental Material

Article:

Marshall, H. orcid.org/0000-0002-7425-1449, Smith, L.J. orcid.org/0000-0002-5769-423X, Biancardi, A.M. orcid.org/0009-0000-2765-0773 et al. (24 more authors) (2025) Phenotyping asthma and/or COPD using 129Xe MRI and comprehensive physiologic testing. American Journal of Respiratory and Critical Care Medicine. rccm.202501-0288OC. ISSN: 1073-449X

<https://doi.org/10.1164/rccm.202501-0288oc>

© 2025 The Authors. Except as otherwise noted, this author-accepted version of a journal article published in American Journal of Respiratory and Critical Care Medicine is made available via the University of Sheffield Research Publications and Copyright Policy under the terms of the Creative Commons Attribution 4.0 International License (CC-BY 4.0), which permits unrestricted use, distribution and reproduction in any medium, provided the original work is properly cited. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>

Reuse

This article is distributed under the terms of the Creative Commons Attribution (CC BY) licence. This licence allows you to distribute, remix, tweak, and build upon the work, even commercially, as long as you credit the authors for the original work. More information and the full terms of the licence here: <https://creativecommons.org/licenses/>

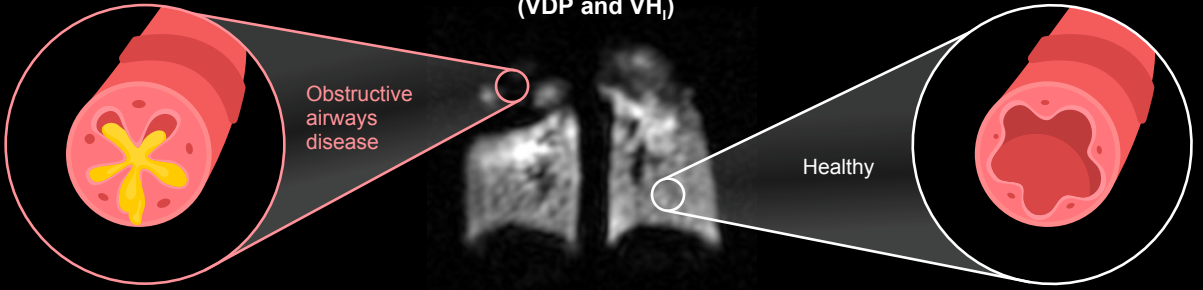
Takedown

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing eprints@whiterose.ac.uk including the URL of the record and the reason for the withdrawal request.

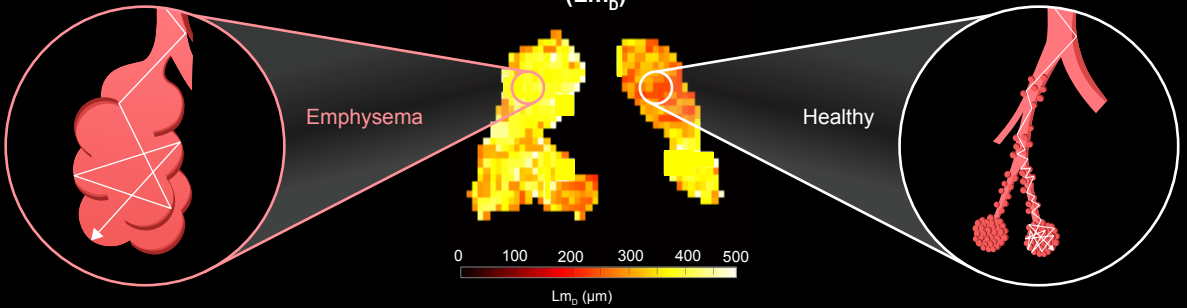


eprints@whiterose.ac.uk
<https://eprints.whiterose.ac.uk/>

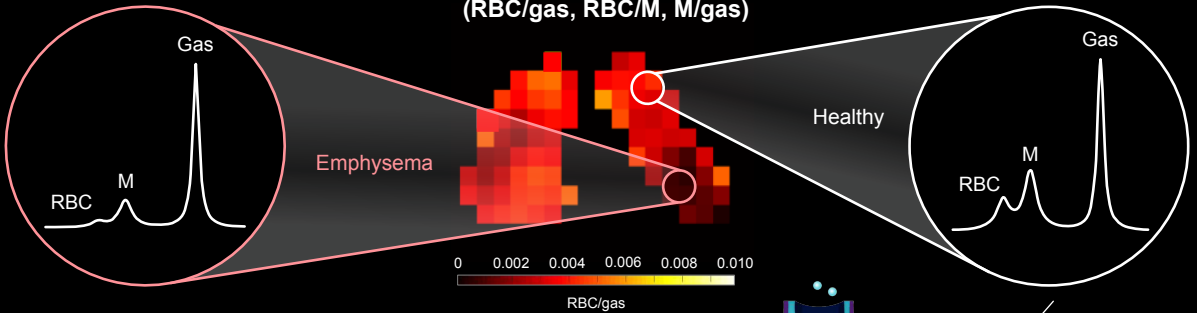
Ventilation (VDP and VH_i)



Acinar Microstructure (Lm_b)



Gas Exchange (RBC/gas, RBC/M, M/gas)



- Gaseous Xenon-129 (Gas)
- Xenon-129 dissolved in membrane (M)
- Xenon-129 bound to RBCs (RBC)

