



# Reply: Measurement of hypoxia in the lung in idiopathic pulmonary fibrosis: a matter of control

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*In vivo* PET imaging in IPF patients shows no significant evidence of lung tissue hypoxia

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*Reply to P-S. Bellaye and co-workers:*

We thank P-S. Bellaye and co-workers for their considered and insightful response. Given their finding of [<sup>18</sup>F]fluoromisonidazole ([<sup>18</sup>F]F-MISO) uptake in the bleomycin mouse model of fibrosis [1], we too were surprised not to demonstrate a similar signal in patients with idiopathic pulmonary fibrosis (IPF). However, as acknowledged, there are other examples of positron emission tomography (PET) tracers, such as cis-4-[<sup>18</sup>F]-fluoro-L-proline, yielding PET signals in animal lung fibrosis models that have not been replicated in humans with fibrotic lung disease [2, 3].

