frontiers | Frontiers in Molecular Biosciences

TYPE Correction
PUBLISHED 23 December 2025
DOI 10.3389/fmolb.2025.1760628

OPEN ACCESS

APPROVED BY
Frontiers Editorial Office,
Frontiers Media SA, Switzerland

*CORRESPONDENCE
Frontiers Editorial Office,
production.office@frontiersin.org

RECEIVED 04 December 2025
ACCEPTED 04 December 2025
PUBLISHED 23 December 2025

CITATION
Frontiers Editorial Office (2025) Correction: Superoxide- and semiquinone-linked activation of molecular hydrogen in metal-catalyst-free solution.
Front. Mol. Biosci. 12:1760628.
doi: 10.3389/fmolb.2025.1760628

Correction: Superoxide- and semiquinone-linked activation of molecular hydrogen in metal-catalyst-free solution

Frontiers Editorial Office*

Frontiers Media SA, Lausanne, Switzerland

KEYWORDS

molecular hydrogen, semiquinone, superoxide, quantum biology, quantum tunneling, H2 activation, reverse electron transport, mitochondrial complex I and III

A Correction on
Superoxide- and semiquinone-linked activation of molecular hydrogen in metal-catalyst-free solution

by Ishibashi T, Harunari E, Ishihara G, Niiyama T, Noda-Urata M and Komori N (2025). Front. Mol. Biosci. 12:1680812. doi: 10.3389/fmolb.2025.1680812

In the abstract, the term "SQ radicals" was erroneously used instead of "semiquinone radicals ($Q\bullet^-$)". This has been corrected to read:

"Here we show that under membrane-less in-solution conditions, H_2 modulates $O_2\bullet^-$ kinetics in ways consistent with a tunneling-assisted electron transfer involving semiquinone radicals ($Q\bullet^-$), without catalytic metals or hydrogenases".

The original article has been updated.