



Space Biology Publications—Fiscal Year 2025

1

Abe J, Chau K, Mojiri A, Wang G, Oikawa M, Samanthapudi VSK, Osborn AM, Ostos-Mendoza KC, Mariscal-Reyes KN, Mathur T, Jain A, Herrmann J, Yusuf SW, Krishnan S, Deswal A, Lin SH, Kotla S, Cooke JP, Le N-T.

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Automated corrosion identification in metal imagery: Traditional vs. deep learning.

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Journal Impact Factor: 2.4

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Calcium signaling in hypoxic response.

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Exposure to elevated relative humidity in laboratory chambers alters fungal gene expression in dust from the International Space Station (ISS).

Sci Rep. 2025 Aug 4;15:28366.

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Journal Impact Factor: 3.9

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Journal Impact Factor: 5.1

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Journal Impact Factor: 17.2

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PLoS One. 2025 Mar 2;20(3):e0317307.

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Journal Impact Factor: Not available for this journal

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Carter CW Jr, Tang GQ, Patra SK, Dieckhaus H, Kuhlman B, Douglas J, Wills PR, Bouckaert R, Popovic M, Ditzler MA.

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<https://pubmed.ncbi.nlm.nih.gov/40476352>

Journal Impact Factor: 3.1

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Cauthorn G, Crisman K, Boles HO, Johnson CM, Subramanian A, Barker R, Cuthbert E, Yamada M, Sato Y, Chisuga H, Fukuoka S, Kagami S, Tada C, Park S, Kunihiro K, Mitsukawa K, Ueki A, Nozawa S, Delioglu G.

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Journal Impact Factor: 2.0

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From the masters: How RNA drugs will transform vascular medicine.

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To boldly go where no microRNAs have gone before: Spaceflight impact on risk for small-for-gestational-age infants.

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Turbocharging fundamental science translation through controlled environment agriculture.

Trends Plant Sci. 2025 Sep 30.

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Genetically encoded and modular subcellular organelle probes reveal dysfunction in lysosomes and mitochondria driven by PRKN knockout.

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Note: This research was featured on the cover of *Connective Tissue Research* Volume 66, Issue 2. The image and cover note are available at (click on “View cover image”):

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Journal Impact Factor: 5.3

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Journal Impact Factor: 6.1

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<https://pubs.rsc.org/en/content/articlepdf/2025/lc/d5lc90055g?page=search>

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Multi-omics of a model bacterial consortium deciphers details of chitin decomposition in soil.

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Adaptation to space conditions of novel bacterial species isolated from the International Space Station revealed by functional gene annotations and comparative genome analysis.

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Journal Impact Factor: 5.0

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Journal Impact Factor: Not available for this journal.

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Journal Impact Factor: 16.0

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Biotechnol Adv. 2025 Jul-Aug;108574. Review.

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Journal Impact Factor: 12.1

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Nat Rev Immunol. 2025 Oct 16. Review.

<https://pubmed.ncbi.nlm.nih.gov/41102553>

Journal Impact Factor: 60.9

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Yang J, Kim HD, Barrila J, Lee SH, Nickerson CA, Ott CM, Israel SA, Choukér A, Yang JY.

Navigating mental health in space: Gut-brain axis and microbiome dynamics.

Exp Mol Med. 2025 Jun 30. Review.

<https://pubmed.ncbi.nlm.nih.gov/40588528>

Journal Impact Factor: 12.9

For additional information, contact: Biological and Physical Sciences Division, National Aeronautics and Space Administration <https://science.nasa.gov/biological-physical>

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