



## Space Biology Publications—Fiscal Year 2017

1

Abshire CF, Prasai K, Soto I, Shi R, Concha M, Baddoo M, Flemington EK, Ennis DG, Scott RS, Harrison L.

Exposure of *Mycobacterium marinum* to low-shear modeled microgravity: Effect on growth, the transcriptome and survival under stress.

npj Microgravity. 2016 Dec 1;2:16038.

<https://www.ncbi.nlm.nih.gov/pubmed/28725743>

*Journal Impact Factor:* Not available for this journal

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Alvarez AA, Han SW, Toyota M, Brillada C, Zheng J, Gilroy S, Rojas-Pierce M.

Wortmannin-induced vacuole fusion enhances amyloplast dynamics in *Arabidopsis zigzag1* hypocotyls.

J Exp Bot. 2016 Dec;67(22):6459-72.

<https://www.ncbi.nlm.nih.gov/pubmed/27816929>

*Journal Impact Factor:* 2.914

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Barrila J, Yang J, Crabbé A, Sarker SF, Liu Y, Ott CM, Nelman-Gonzalez MA, Clemett SJ, Nydam SD, Forsyth RJ, Davis RR, Crucian BE, Quirarte H, Roland KL, Brenneman K, Sams C, Loscher C, Nickerson CA.

Three-dimensional organotypic co-culture model of intestinal epithelial cells and macrophages to study *Salmonella enterica* colonization patterns.

npj Microgravity. 2017 Feb 28;3(1):10.

<https://www.ncbi.nlm.nih.gov/pubmed/28649632>

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Basu P, Kruse CPS, Luesse DR, Wyatt SE.

Growth in spaceflight hardware results in alterations to the transcriptome and proteome.

Life Sci Space Res. 2017 Sep 21. [Article in Press]

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*Journal Impact Factor:* 1.97

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<https://www.ncbi.nlm.nih.gov/pubmed/28716113>

*Note:* Erratum correcting Fig. 4 appears in Microbiome. 2017 Sep 1;5(1):111.

<https://www.ncbi.nlm.nih.gov/pubmed/28863784>

*Journal Impact Factor:* 8.496

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Spaceflight activates autophagy programs and the proteasome in mouse liver.  
Int J Mol Sci. 2017 Sep 27;18(10):2062.

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Human presence impacts fungal diversity of inflated lunar/Mars analog habitat.  
Microbiome. 2017 Jul 11;5(1):62.

<https://www.ncbi.nlm.nih.gov/pubmed/28693587>

*Journal Impact Factor:* Not available for this journal

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Boothby TC, Pielak GJ.

Intrinsically disordered proteins and desiccation tolerance: Elucidating functional and mechanistic underpinnings of anhydrobiosis.

Bioessays. 2017 Sep 13. [Epub ahead of print]

<https://www.ncbi.nlm.nih.gov/pubmed/28901557>

*Journal Impact Factor:* 4.441

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Boothby TC, Tapia H, Brozena AH, Piszkiewicz S, Smith AE, Giovannini I, Rebecchi L, Pielak GJ, Koshland D, Goldstein B.

Tardigrades use intrinsically disordered proteins to survive desiccation.

Mol Cell. 2017 Mar 16;65(6):975-84.

<https://www.ncbi.nlm.nih.gov/pubmed/28306513>

*Journal Impact Factor:* 13.958

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Brillada C, Rojas-Pierce M.

Vacuolar trafficking and biogenesis: A maturation in the field.

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*Journal Impact Factor:* 7.357

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Toxicol Appl Pharmacol. 2017 Sep 15;331:101-7.

<https://www.ncbi.nlm.nih.gov/pubmed/28554658>

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Transcriptomic changes in an animal-bacterial symbiosis under modeled microgravity conditions.  
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Journal Impact Factor: 5.228

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<http://gravitationalandspacebiology.org/index.php/journal/article/view/740>  
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In: eLS. Chichester, U.K: John Wiley & Sons, Ltd, 2017. p. 1-4.

<http://onlinelibrary.wiley.com/doi/10.1002/9780470015902.a0023746/abstract>

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Open Agriculture. 2017 Feb;2(1):42.

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Comparative transcriptomics indicate changes in cell wall organization and stress response in seedlings during spaceflight.  
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*Journal Impact Factor:* 2.339

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LeFrois CE, Zhou M, Moraga Amador D, Sng N, Paul A-L, Ferl RJ.  
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