



Space Biology Publications – Fiscal Year 2015

1

Abdelmoaty H, Hammond TG, Wilson BL, Birdsall HH, Clement JQ.

Identification of putative major space genes using genome-wide literature data.

In: Biotechnology. Rijeka, Croatia: InTech, 2015. p. 93-116.

<http://www.intechopen.com/books/biotechnology/identification-of-putative-major-space-genes-using-genome-wide-literature-data>

Journal Impact Factor: Not applicable

2

Alwood JS, Shahnazari M, Chicana B, Schreurs AS, Kumar A, Bartolini A, Shirazi-Fard Y, Globus RK.

Ionizing radiation stimulates expression of pro-osteoclastogenic genes in marrow and skeletal tissue.

J Interferon Cytokine Res. 2015 Jun;35(6):480-7.

<http://www.ncbi.nlm.nih.gov/pubmed/25734366>

Journal Impact Factor: 3.297

3

Avci U, Nakashima J.

A flat embedding method to orient thin biological samples for sectioning.

Methods Mol Biol. 2015;1309:13-22. (In Plant Gravitropism: Methods and Protocols. E.B. Blancaflor, editor.

New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981764>

Journal Impact Factor: 1.29

4

Avin KG, Bloomfield SA, Gross TS, Warden SJ.

Biomechanical aspects of the muscle-bone interaction.

Curr Osteoporos Rep. 2015 Feb;13(1):1-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25515697>

Journal Impact Factor: Not available for this journal.

5

Bamsey MT, Paul A-L, Graham T, Ferl RJ.

Flexible imaging payload for real-time fluorescent biological imaging in parabolic, suborbital and space analog environments.

Life Sci Space Res. 2014 Oct;3:32-44.

<http://www.sciencedirect.com/science/article/pii/S2214552414000480>

Journal Impact Factor: 1.183

6

Basu P, Luesse DR, Wyatt SE.

Proteomic approaches and their application to plant gravitropism.

Methods Mol Biol. 2015;1309:119-32. (In Plant Gravitropism: Methods and Protocols. E.B. Blancaflor, editor.

New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981772>

Journal Impact Factor: 1.29

7

Baulch JE, Craver BM, Tran KK, Yu L, Chmielewski N, Allen BD, Limoli CL.
Persistent oxidative stress in human neural stem cells exposed to low fluences of charged particles.
Redox Biol. 2015 Aug;5:24-32.

<http://www.ncbi.nlm.nih.gov/pubmed/25800120>

Journal Impact Factor: Not available for this journal.

8

Belavy DL, Adams M, Brisby H, Cagnie B, Danneels L, Fairbank J, Hargens AR, Judex S, Scheuring RA, Sovellius R, Urban J, van Dieën JH, Wilke HJ.

Disc herniations in astronauts: What causes them, and what does it tell us about herniation on earth?

European Spine Journal. 2015 Apr 18. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/25893331>

Journal Impact Factor: 2.473

9

Berg-Johansen B, Liebenberg EC, Li A, Macias BR, Hargens AR, Lotz JC.

Spaceflight-induced bone loss alters failure mode and reduces bending strength in murine spinal segments.

J Orthop Res. 2015 Aug 18. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/26285046>

Journal Impact Factor: 2.986

10

Blaber E, Sato K, Almeida EA.

Stem cell health and tissue regeneration in microgravity.

Stem Cells Dev. 2014 Dec;23 Suppl 1:73-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25457968>

Journal Impact Factor: 4.202

11

Blaber EA, Finkelstein H, Dvorochkin N, Sato KY, Yousuf R, Burns BP, Globus RK, Almeida E.

Microgravity reduces the differentiation and regenerative potential of embryonic stem cells.

Stem Cells Dev. 2015 Sep 28. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/26414276>

Journal Impact Factor: 3.727

12

Blancaflor EB.

Plant gravitropism: Methods and protocols.

New York: Springer; 2015. 326 p.

<http://link.springer.com/book/10.1007%2F978-1-4939-2697-8>

Journal Impact Factor: Not applicable

13

Cannon AE, Salmi ML, Bushart TJ, Roux SJ.

Studying molecular changes during gravity perception and response in a single cell.

Methods Mol Biol. 2015;1309:199-207. (In *Plant Gravitropism: Methods and Protocols*. E.B. Blancaflor, editor.

New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981777>

Journal Impact Factor: 1.29

14

Carman JG, Hole P, Salisbury FB, Bingham GE.
Developmental, nutritional and hormonal anomalies of weightlessness-grown wheat.
Life Sci Space Res. 2015 Jul;6:59-68.

<http://www.ncbi.nlm.nih.gov/pubmed/26256629>

Journal Impact Factor: 1.183

15

Casey T, Patel OV, Plaut K.
Transcriptomes reveal alterations in gravity impact circadian clocks and activate mechanotransduction pathways with adaptation through epigenetic change.
Physiol Genomics. 2015 Apr;47(4):113-28.

<http://www.ncbi.nlm.nih.gov/pubmed/25649141>

Journal Impact Factor: 2.812

16

Chang TT, Spurlock SM, Candelario TL, Grenon SM, Hughes-Fulford M.
Spaceflight impairs antigen-specific tolerance induction in vivo and increases inflammatory cytokines.
FASEB J. 2015 Oct;29(10):4122-32. Epub 2015 Jun 17.

<http://www.ncbi.nlm.nih.gov/pubmed/26085131>

Journal Impact Factor: 5.043

17

Chowdhury B, McGovern A, Cui Y, Choudhury SR, Cho IH, Cooper B, Chevassut T, Lossie AC, Irudayaraj J.
The hypomethylating agent Decitabine causes a paradoxical increase in 5-hydroxymethylcytosine in human leukemia cells.

Sci Rep. 2015 Apr 22;5:9281.

<http://www.ncbi.nlm.nih.gov/pubmed/25901663>

Journal Impact Factor: 5.578

18

Crabbé A, Liu Y, Sarker SF, Bonenfant NR, Barrila J, Borg ZD, Lee JJ, Weiss DJ, Nickerson CA.
Recellularization of decellularized lung scaffolds is enhanced by dynamic suspension culture.
PLoS One. 2015 May 11;10(5):e0126846.

<http://www.ncbi.nlm.nih.gov/pubmed/25962111>

Journal Impact Factor: 3.545

19

Dalal J, Land E, Vasani N, He L, Smith C, Rodriguez-Welsh M, Perera IY, Sederoff H.
Methods for RNA profiling of gravi-responding plant tissues.
Methods Mol Biol. 2015;1309:91-117. (In Plant Gravitropism: Methods and Protocols. E.B. Blancaflor, editor. New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981771>

Journal Impact Factor: 1.29

20

Dib LH, Ortega MT, Melgarejo T, Chapes SK.
Establishment and characterization of DB-1: A leptin receptor-deficient murine macrophage cell line.
Cytotechnology. 2015 Jan 20. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/25599862>

Journal Impact Factor: 1.449

21

Fajardo-Cavazos P, Narvel R, Nicholson WL.

Differing responses in growth and spontaneous mutation to antibiotic resistance in *Bacillus subtilis* and *Staphylococcus epidermidis* cells exposed to simulated microgravity.

Gravit Space Res. 2014 Dec;2(2):34-45.

<http://gravitationalandspacebiology.org/index.php/journal/article/view/660>

Journal Impact Factor: Not available for this journal.

22

Ferl RJ.

Suborbital vehicles to study transition adaptation to spaceflight – Why biologists should care about the new suborbital flight opportunities.

Gravit Space Res. 2014 Dec;2(2):58-65.

<http://gravitationalandspacebiology.org/index.php/journal/article/view/658>

Journal Impact Factor: Not available for this journal.

23

Ferl RJ, Koh J, Denison F, Paul AL.

Spaceflight induces specific alterations in the proteomes of *Arabidopsis*.

Astrobiology. 2015 Jan;15(1):32-56.

<http://www.ncbi.nlm.nih.gov/pubmed/25517942>

Journal Impact Factor: 2.512

24

Gerttula S, Zinkgraf M, Muday G, Lewis D, Ibatullin FM, Brumer H, Hart F, Mansfield SD, Filkov V, Groover A.

Transcriptional and hormonal regulation of gravitropism of woody stems in *Populus*.

Plant Cell. 2015 Sep 26. [Epub ahead of print]

www.ncbi.nlm.nih.gov/pubmed/26410302

Journal Impact Factor: 9.338

25

Gilroy S, Suzuki N, Miller G, Choi WG, Toyota M, Devireddy AR, Mittler R.

A tidal wave of signals: Calcium and ROS at the forefront of rapid systemic signaling.

Trends Plant Sci. 2014 Oct;19(10):623-30.

<http://www.ncbi.nlm.nih.gov/pubmed/25088679>

Journal Impact Factor: 13.479

26

Gridley DS, Mao XW, Tian J, Cao JD, Perez C, Stodieck LS, Ferguson VL, Bateman TA, Pecaut MJ.

Genetic and apoptotic changes in lungs of mice flown on the STS-135 mission in space.

In Vivo. 2015 Jul 8;29(4):423-33.

<http://www.ncbi.nlm.nih.gov/pubmed/26130787>

Journal Impact Factor: 0.974

27

Gupta V, Holets-Bondar L, Roby KF, Enders G, Tash JS.

A tissue retrieval and postharvest processing regimen for rodent reproductive tissues compatible with long-term storage on the International Space Station and postflight biospecimen sharing program.

Biomed Res Int. 2015;2015:475935.

<http://www.ncbi.nlm.nih.gov/pubmed/25654107>

Journal Impact Factor: 2.706

28

Hamilton ES, Schlegel AM, Haswell ES.
United in diversity: Mechanosensitive ion channels in plants.
Annu Rev Plant Biol. 2015 Apr 29;66:113-37. Review.
<http://www.ncbi.nlm.nih.gov/pubmed/25494462>

Journal Impact Factor: 18.9

29

Hasenstein KH.
Use of high gradient magnetic fields to evaluate gravity perception and response mechanisms in plants and algae.
Methods Mol Biol. 2015;1309:227-37. (In *Plant Gravitropism: Methods and Protocols*. E.B. Blancaflor, editor. New York: Springer, 2015.)
<http://www.ncbi.nlm.nih.gov/pubmed/25981779>

Journal Impact Factor: 1.29

30

Hughes-Fulford M, Chang TT, Martinez EM, Li CF.
Spaceflight alters expression of microRNA during T-cell activation.
FASEB J. 2015 Aug 14. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/26276131>

Journal Impact Factor: 5.043

31

Johnson CM, Subramanian A, Edelmann RE, Kiss JZ.
Morphometric analyses of petioles of seedlings grown in a spaceflight experiment.
J Plant Res. 2015 Sep 16. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/26376793>

Journal Impact Factor: 1.823

32

Kennedy AR, Crucian B, Huff JL, Klein SL, Morens D, Murasko D, Nickerson CA, Sonnenfeld G.
Effects of sex and gender on adaptation to space: Immune system.
J Womens Health (Larchmt). 2014 Nov;23(11):956-8. Review.
<http://www.ncbi.nlm.nih.gov/pubmed/25401940>

Journal Impact Factor: 1.896

33

Kim JH, Lee Y, Kwak HB, Lawler JM.
Lifelong wheel running exercise and mild caloric restriction attenuate nuclear EndoG in the aging plantaris muscle.
Exp Gerontol. 2015 Jun 6;69:122-8.
<http://www.ncbi.nlm.nih.gov/pubmed/26055450>

Journal Impact Factor: 3.529

34

Kiss JZ.
Conducting plant experiments in space.
Methods Mol Biol. 2015;1309:255-83. (In *Plant Gravitropism: Methods and Protocols*. E.B. Blancaflor, editor. New York: Springer, 2015.)
<http://www.ncbi.nlm.nih.gov/pubmed/25981781>

Journal Impact Factor: 1.29

35

Kwak HB, Lee Y, Kim JH, Van Remmen H, Richardson AG, Lawler JM.
MnSOD overexpression reduces fibrosis and pro-apoptotic signaling in the aging mouse heart.
J Gerontol A Biol Sci Med Sci. 2015 May;70(5):533-44. <http://www.ncbi.nlm.nih.gov/pubmed/25016531>
Journal Impact Factor: 4.314

36

Kwon T, Sparks JA, Nakashima J, Allen SN, Tang Y, Blancaflor EB.
Transcriptional response of *Arabidopsis* seedlings during spaceflight reveals peroxidase and cell wall remodeling genes associated with root hair development.
Am J Bot. 2015 Jan;102(1):21-35.
<http://www.ncbi.nlm.nih.gov/pubmed/25587145>
Journal Impact Factor: 2.463

37

Lourenço TF, Serra TS, Cordeiro AM, Swanson SJ, Gilroy S, Saibo NJ, Oliveira MM.
The rice E3 ubiquitin ligase OsHOS1 modulates the expression of OsRMC, a gene involved in root mechanosensing, through the interaction with two ERF transcription factors.
Plant Physiol. 2015 Sep 17. [Epub ahead of print]
<http://www.ncbi.nlm.nih.gov/pubmed/26381316>
Journal Impact Factor: 6.841

38

Luna C, Yew AG, Hsieh AH.
Effects of angular frequency during clinorotation on mesenchymal stem cell morphology and migration.
npj Microgravity. 2015 Jul 30;1:15007.
<http://www.nature.com/articles/npjmicrograv20157>
Journal Impact Factor: Not available for this journal

39

Manske SL, Vijayaraghavan S, Tuthill A, Brutus O, Yang J, Gupta S, Judex S.
Extending rest between unloading cycles does not enhance bone's long-term recovery.
Med Sci Sports Exerc. 2015 Oct;47(10):2191-200. Epub 2015 Feb 9.
<http://www.ncbi.nlm.nih.gov/pubmed/25668404>
Journal Impact Factor: 4.459

40

Martinez EM, Yoshida MC, Candelario TL, Hughes-Fulford M.
Spaceflight and simulated microgravity cause a significant reduction of key gene expression in early T-cell activation.
Am J Physiol Regul Integr Comp Physiol. 2015 Mar 15;308(6):R480-8.
<http://www.ncbi.nlm.nih.gov/pubmed/25568077>
Journal Impact Factor: 3.529

41

Martinez-Morentin L, Martinez L, Piloto S, Yang H, Schon EA, Garesse R, Bodmer R, Ocorr K, Cervera M, Arredondo JJ.
Cardiac deficiency of single cytochrome oxidase assembly factor scox induces p53 dependent apoptosis in a *Drosophila* cardiomyopathy model.
Hum Mol Genet. 2015 Jul 1;24(13):3608-22.
<http://www.ncbi.nlm.nih.gov/pubmed/25792727>
Journal Impact Factor: 6.677

42

Massa GD, Chase E, Santini JB, Mitchell CA.

Temperature affects long-term productivity and quality attributes of day-neutral strawberry for a space life-support system.

Life Sci Space Res. 2015 Apr;5:39-46.

<http://www.sciencedirect.com/science/article/pii/S2214552415000206>

Journal Impact Factor: 1.183

43

Mednieks M, Khatri A, Hand AR.

Salivary gland protein expression after Bion-M1 and Space Shuttle STS-135 missions.

Gravit Space Res. 2015 Jul;3(1):2-19.

<http://gravitationalandspacebiology.org/index.php/journal/article/view/678>

Journal Impact Factor: Not available for this journal

44

Monshausen GB.

Imaging of dynamic ion signaling during root gravitropism.

Methods Mol Biol. 2015;1309:43-55. (In Plant Gravitropism: Methods and Protocols. E.B. Blancaflor, editor.

New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981767>

Journal Impact Factor: 1.29

45

Nislow C, Lee AY, Allen PL, Giaever G, Smith A, Gebbia M, Stodieck LS, Hammond JS, Birdsall HH, Hammond TG.

Genes required for survival in microgravity revealed by genome-wide yeast deletion collections cultured during spaceflight.

Biomed Res Int. 2015;2015:976458.

<http://www.ncbi.nlm.nih.gov/pubmed/25667933>

Journal Impact Factor: 2.706

46

Paul AL, Ferl RJ.

Spaceflight exploration in plant gravitational biology.

Methods Mol Biol. 2015;1309:285-305. (In Plant Gravitropism: Methods and Protocols. E.B. Blancaflor, editor.

New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981782>

Journal Impact Factor: 1.29

47

Philbrick KA, Turner RT, Branscum AJ, Wong CP, Iwaniec UT.

Paradoxical effects of partial leptin deficiency on bone in growing female mice.

Anat Rec (Hoboken). 2015 Sep 15. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/26370912>

Journal Impact Factor: 1.542

48

Philippou A, Minozzo FC, Spinazzola JM, Smith LR, Lei H, Rassier DE, Barton ER.
Masticatory muscles of mouse do not undergo atrophy in space.
FASEB J. 2015 Jul;29(7):2769-79.

<http://www.ncbi.nlm.nih.gov/pubmed/25795455>

Journal Impact Factor: 5.480

49

Popova Y, Boyle R.

Neural response in vestibular organ of *Helix aspersa* to centrifugation and re-adaptation to normal gravity.
J Comp Physiol A Neuroethol Sens Neural Behav Physiol. 2015 Mar 24;201(7):717-29.

<http://www.ncbi.nlm.nih.gov/pubmed/25801308>

Journal Impact Factor: 1.634

50

Prisby RD, Behnke BJ, Allen MR, Delp MD.

Effects of skeletal unloading on the vasomotor properties of the rat femur principal nutrient artery.
J Appl Physiol (1985). 2015 Apr 15;118(8):980-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25635000>

Journal Impact Factor: 3.434

51

Qin Q, Xie H, Wise SS, Browning CL, Thompson KN, Holmes AL, Wise JP Sr.

Homologous recombination repair signaling in chemical carcinogenesis: Prolonged particulate hexavalent chromium exposure suppresses the Rad51 response in human lung cells.
Toxicol Sci. 2014 Nov;142(1):117-25.

<http://www.ncbi.nlm.nih.gov/pubmed/25173789>

Journal Impact Factor: 4.478

52

Ruberti C, Kim SJ, Stefano G, Brandizzi F.

Unfolded protein response in plants: One master, many questions.
Curr Opin Plant Biol. 2015 Oct;27:59-66. Review. Epub 2015 Jul 5.

<http://www.ncbi.nlm.nih.gov/pubmed/26149756>

Journal Impact Factor: 7.848

53

Sng NJ, Callahan J, Ferl RJ, Paul A-L.

Arabidopsis thaliana for spaceflight applications – Preparing dormant biology for passive stowage and on-orbit activation.

Gravit Space Res. 2014 Dec;2(2):81-9.

<http://gravitationalandspacebiology.org/index.php/journal/article/view/666>

Journal Impact Factor: Not available for this journal.

54

Sofronova SI, Tarasova OS, Gaynullina D, Borzykh AA, Behnke BJ, Stabley JN, McCullough DJ, Maraj JJ, Hanna ME, Muller-Delp JM, Vinogradova OL, Delp MD.

Spaceflight on the Bion-M1 biosatellite alters cerebral artery vasomotor and mechanical properties in mice.
J Appl Physiol (1985). 2015 Apr 1;118(7):830-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25593287>

Journal Impact Factor: 3.434

55

Stabley JN, Moningka NC, Behnke BJ, Delp MD.

Exercise training augments regional bone and marrow blood flow during exercise.

Med Sci Sports Exerc. 2014 Nov;46(11):2107-12.

<http://www.ncbi.nlm.nih.gov/pubmed/24658222>

Journal Impact Factor: 4.459

56

Stabley JN, Prisby RD, Behnke BJ, Delp MD.

Type 2 diabetes alters bone and marrow blood flow and vascular control mechanisms in the ZDF rat.

J Endocrinol. 2015 Apr;225(1):47-58.

<http://www.ncbi.nlm.nih.gov/pubmed/25817711>

Journal Impact Factor: 3.586

57

Stefano G, Hawes C, Brandizzi F.

ER - The key to the highway.

Curr Opin Plant Biol. 2014 Dec;22:30-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25259957>

Journal Impact Factor: 9.385

58

Su S-H, Gray WM, Masson PH.

Auxin: Shape matters.

Nature Plants. 2015 Jul 7;1:15097.

<http://www.nature.com/articles/nplants201597>

Journal Impact Factor: Not available for this journal

59

Swanson SJ, Barker R, Ye Y, Gilroy S.

Evaluating mechano-transduction and touch responses in plant roots.

Methods Mol Biol. 2015;1309:143-50. (In Plant Gravitropism: Methods and Protocols. E.B. Blancaflor, editor.

New York: Springer, 2015.)

<http://www.ncbi.nlm.nih.gov/pubmed/25981774>

Journal Impact Factor: 1.29

60

Turner RT, Philbrick KA, Wong CP, Olson DA, Branscum AJ, Iwaniec UT.

Morbid obesity attenuates the skeletal abnormalities associated with leptin deficiency in mice.

J Endocrinol. 2014 Oct;223(1):M1-15.

<http://www.ncbi.nlm.nih.gov/pubmed/24990938>

Journal Impact Factor: 4.058

61

Vandenbrink JP, Kiss JZ, Herranz R, Medina FJ.

Light and gravity signals synergize in modulating plant development.

Front Plant Sci. 2014 Oct 28;5:563.

<http://www.ncbi.nlm.nih.gov/pubmed/25389428>

Journal Impact Factor: 3.637

62

Vanegas DC, Clark G, Cannon AE, Roux S, Chaturvedi P, McLamore ES.
A self-referencing biosensor for real-time monitoring of physiological ATP transport in plant systems.
Biosens Bioelectron. 2015 Dec 15;74:37-44. Epub 2015 May 29.

<http://www.ncbi.nlm.nih.gov/pubmed/26094038>

Journal Impact Factor: 6.409

63

Vignaux G, Besnard S, Denise P, Elefteriou F.
The vestibular system: A newly identified regulator of bone homeostasis acting through the sympathetic nervous system.

Curr Osteoporos Rep. 2015 Aug;13(4):198-205.

<http://www.ncbi.nlm.nih.gov/pubmed/26017583>

Journal Impact Factor: Not available for this journal.

64

Vignaux G, Ndong J, Perrien D, Elefteriou F.
Inner ear vestibular signals regulate bone remodeling via the sympathetic nervous system.
J Bone Miner Res. 2015 Jun;30(6):1103-11.

<http://www.ncbi.nlm.nih.gov/pubmed/25491117>

Journal Impact Factor: 6.589

65

Wallace IJ, Gupta S, Sankaran J, Demes B, Judex S.
Bone shaft bending strength index is unaffected by exercise and unloading in mice.
J Anat. 2015 Mar;226(3):224-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25645569>

Journal Impact Factor: 2.227

66

Wallace IJ, Judex S, Demes B.
Effects of load-bearing exercise on skeletal structure and mechanics differ between outbred populations of mice.

Bone. 2015 Mar;72:1-8.

<http://www.ncbi.nlm.nih.gov/pubmed/25460574>

Journal Impact Factor: 4.461

67

Wallace IJ, Pagnotti GM, Rubin-Sigler J, Naeher M, Copes LE, Judex S, Rubin CT, Demes B.
Focal enhancement of the skeleton to exercise correlates to mesenchymal stem cell responsivity rather than peak external forces.

J Exp Biol. 2015 Oct;218(Pt 19):3002-9. Epub 2015 Jul 31.

<http://www.ncbi.nlm.nih.gov/pubmed/26232415>

Journal Impact Factor: 2.897

68

Wang JH, Singh R, Benoit M, Keyhan M, Sylvester M, Hsieh M, Thathireddy A, Hsieh YJ, Martin AC.
Sigma S-dependent antioxidant defense protects stationary-phase *Escherichia coli* against the bactericidal antibiotic gentamicin.

Antimicrob Agents Chemother. 2014 Oct;58(10):5964-75.

<http://www.ncbi.nlm.nih.gov/pubmed/25070093>

Journal Impact Factor: 4.565

69

Yang J, Barrila J, Roland KL, Kilbourne J, Ott CM, Forsyth RJ, Nickerson CA.

Characterization of the invasive, multidrug resistant non-typhoidal *Salmonella* strain D23580 in a murine model of infection.

PLoS Negl Trop Dis. 2015 Jun 19;9(6):e0003839.

<http://www.ncbi.nlm.nih.gov/pubmed/26091096>

Journal Impact Factor: 4.446

70

Yang X, Wang B, Farris B, Clark G, Roux SJ.

Modulation of root skewing in *Arabidopsis* by apyrases and extracellular ATP.

Plant Cell Physiol. 2015 Sep 27. [Epub ahead of print]

<http://www.ncbi.nlm.nih.gov/pubmed/26412783>

Journal Impact Factor: 4.931

71

Zheng J, Han SW, Munnik T, Rojas-Pierce M.

Multiple vacuoles in impaired tonoplast trafficking³ mutants are independent organelles.

Plant Signal Behav. 2014 Dec 22;9(10):e972113.

<http://www.ncbi.nlm.nih.gov/pubmed/25482812>

Journal Impact Factor: Not available for this journal.