

Poster Session A (Alphabetical)

1. Using quantitative, objective data to evaluate program impact on the biomedical workforce
Ackerman, C.M., Fan, Y.
2. Innate immune response in a bir-2 knockdown Model of *Caenorhabditis elegans*
Ballerstein, A., Page, S.
3. Identification of four novel blood group systems facilitated by an INBRE-funded mass Spectrometer
Ballif, B., Arnaud, L.
4. Mitochondrial perturbations during dengue virus infection
Barbier, V., Lang, D., Valois, S., Medin, C.
5. Optimized mitoxantrone delivery profiles using remotely activated biomaterials
Barnes, T., Tolouei, A., Ghatee, R., Kennedy, S.
6. Effect of gold nanoparticles on the membrane integrity of DMPC liposomes
Bhat, A., Edwards, L., Lu, Q.
7. Toxic metals block the activities of α -ketoglutarate /Fe(II)-dependent DNA repair enzymes
Bian, K., Tang, Q., Chen, F., Li, D.
8. Kinetic analyses of reaction progress for substituted ethyl chloroformates – common derivatization reagents
Bilbrough, A., DeBarros II, V., D'Souza, M. J.
9. Generation of the Deducator of cytokinesis 7 conditional knockout allele using the Cas9/CRISPR system
Bishop, K.A., Harrington, A., Rosen, C.J., Liaw, L.
10. The arenavirus matrix protein PPXY late domain drives the production of defective interfering particles
Botten, J., Ziegler, C., Eisenhauer, P., Bruce, E., Weir, M., King, B., Klaus, J., Shirley, D., Ballif, B.
11. Ugi-derived diamide inhibitors of bacterial beta-N-acetylglucosaminidases
Brewster, J., Gravier, J., Magno, E., O'Connor, M., Basu, A., Ried, C.
12. A synthetic niche for nephron progenitor cells
Brown, A., Muthukrishnan, D., Oxburgh, L.
13. A silent cry for help: The need for a hospital-based gun violence program
Buck, J., Medinilla, S.
14. Spatial light modulator based Michelson interferometer for generation of Bessel beams for light-sheet microscopy
Burton, H., Chrostoski, P., Debardelaben, C., Amir, W., Planchon, T.
15. Oxidized RNA in systemic lupus erythematosus
Buskiewicz I.A., Murphy, M., Perl, A., Budd, R., Koenig, A.
16. CSR-1 and P granules suppress sperm-specific transcription in the *Caenorhabditis elegans* germline
Campbell, A.C., Updike, D.L.

17. Toxicity and mutagenicity studies of the AlkB family DNA repair enzymes
Chen, F., Bian, K., Tang, Q., Li, D.
18. Overexpression of mechano-sensitive microRNA-365 promotes the onset of osteoarthritis *in vivo* by up-regulating Indian hedgehog during aging
Yang, K., Yun, G., Yang, W., Chen, Q.
19. Cortisol-treated zebrafish embryos develop a pro-inflammatory adult phenotype with reduced regenerative capacity
Hartig, E., Zhu, S., King, B.L., Coffman, J. A.
20. Identification of novel genes regulating germ granule function in *C. elegans*
de Groot-Andralojc, K., Terrey, M., Senter-Zapata, M., King, B., Campbell, A.C., Updike, D.
21. The role of Slamf6 on NKT cells
DeVault, V.L., Dienz, O., Lilley, G.W.J., Schwartzberg, P.L., Boyson, J.E.
22. Building school and community collaborations to eliminate arsenic from drinking water in Maine and New Hampshire: A model for the US
Disney, J., Bailey, D., Farrell, A., Fidler, C., Stanton, B., Borsuk, M., Lawlor, K., McGreavy, B., Bieluch, K.
23. Glycans in pathogenic bacteria – potential for selective targeting
Clark, E.L., Krupp, K., Kulkarni, S., Dube, D.H.
24. Investigation of antibiotic-resistant gene dispersal between the environmental resistome and human pathogenic bacteria
Feinstein, L., Riitano, A.
25. miR-21 governed macrophage response during cardiac regeneration
FitzSimons, M.L., Yin, V.P.
26. Characteristics of late-onset sepsis in the NICU: Does an increased census impact risk of infection?
Goldstein, N.D., Eppes, S., Ingraham, B.C., Paul, D.A.
27. Dorsomorphin inhibits extracellular signal-regulated kinase 1/2 and suppresses viability of pediatric acute myeloid leukemia cells
Bollinger, E., Barwe, S. P., Kolb, E. A., Gopalakrishnapillai, A.
28. The role of calcitonin gene related protein in LP-BM5 infection of astrocytes and microglia
Grlickova-Duzevik, E., Vaughn, J., Cao, L.
29. The role of CD40 in LP-BM5 infection of mixed glial cells
Grlickova-Duzevik, E., Malon, J., Cao, L.
30. Reducing eukaryotic initiation factor 4G improves stress survival by enhancing proteostasis in *Caenorhabditis elegans*
Howard, A.C., Rollins, J., Snow, S., and Rogers, A.N.
31. Role of Neuregulin-1/ErbB signaling in Sca-1 Positive c-Kit negative hematopoietic stem cells
Jachimowicz, E., Wojchowski, D.M., Sawyer, D.B., Ryzhov, S.
32. Anti-*Cryptosporidium* drug development
Jumani, R.S., Miller, P., Bessoff, K., Huston, C. D.

33. Suppression of germline programs in the soma of *Caenorhabditis elegans*
Kelly, A., Senter-Zapata, M., Updike, D.
34. Identification of precursor microRNAs within distal axons of sensory neuron
Kim, H.H., Kim, P., Phay, M., Yoo, S.
35. Validation of septa thickness in simulated breast phantoms
Kuperavage, A.J., Bakic, P., Pokrajac, D.
36. Identification of novel germ-granule regulators in the germline
Lajoie, C.R., Updike, D.L.
37. Chimeric antigen receptors based on low affinity mutants of FcεRI re-direct T cell specificity to cells expressing membrane IgE
Ward, D., Huihui, H., Finkel, T.H., Ma, Z.
38. Involvement of CD137L in peripheral nerve injury-induced neuropathic pain behaviors Malon, J., Cao, L.
39. Research Center for Acute Care and Stroke (RACE): Building an interdisciplinary research infrastructure
Marco, D., Arnold, R., Cipolle, M., Getchell, J., Herman, A., Moore, D., Schailey, T.
40. SR-like RNA-binding protein 1: Links to filamentation and mRNA transport in the pathogenic fungus *Candida albicans*
Ariyachet, C., Eley, S., Li, X., Martin, P., O'Brien, K., Pholcharee, T., McBride, A.
41. Sox11 expression in the trigeminal ganglion promotes corneal healing following lacrimal gland excision
Mecum, N., Lei, L., Meng, I.D.
42. Synthesis and evaluation of pyrazinones as quorum sensing inhibitors
Miller, K., Grande, M., Dancause, S., Meschwitz, S. M.
43. Orthopedia homeobox as a biomarker for the early detection of prostate cancer
Moses-Fynn, E., Kwabi-Addo, B.
44. High-resolution adaptive Bessel light-sheet fluorescence microscope for live-cell imaging
Planchon, T., Spina, M., King, C., Berthomieu, M., Burton, H., Chrostoski, P., Amir, W.
45. Metformin differentially affects bone mass, adipocyte size, inflammation and circulating metabolomics in obese vs lean B6 mice
Reagan, M., Bornstein, S., Moschetta, M., Kawano, Y., Horowitz, M., Huynh, D., Brooks, D., Bouxsein,
46. Integrated organismal response to translation attenuation in specific tissues
Rogers, A.
47. Alternative splicing and NMD increase lifespan under dietary restriction by post-transcriptionally suppressing expression of ribosomal subunits
Rollins, J., Howard, A., Mooney, S., Kapahi, P., Rogers, A.

48. Podocalyxin negatively regulates stress myelopoiesis, directly binds Rap-1A and modulates its GCSF-induced activity
Li, P., McGlaufflin, R., Favreau, A., Jachimowicz, E., Vary, C., Xu, K., Wojchowski, D.M., Sathyanarayana, P.
49. Tunable hydrogels to understand the role of the microenvironment in regulating breast cancer dormancy and recurrence
Sawicki, L., Kloxin, A.
50. Metabolic regulation of caspase activity and survival in T cells
Secinaro, M., Saligrama, P., Fortner, K., Murphy, M., Budd, R.
51. MicroRNA Let-7i enhances heart tissue regeneration in zebrafish
Smith, A.M., Hohmann, A., Yin, V.P.
52. DNA sequencing and gene expression facility at MDI Biological Laboratory
Smith, C., Rieger, S., Coffman, J.
53. Uncoupling healthspan and gerospan in *Caenorhabditis elegans* short-lived mutants
Dobbins S., Washburn E., Rollins J., Howard A., Snow S., Rogers A.
54. Low dose arsenic exposure disrupts the host-pathogen response in a zebrafish (*Danio rerio*) model for cystic fibrosis
Sullivan, C., King B., Kim, C.
55. Understanding structure function relationships in the Ni(II)-and Co(II)-responsive transcriptional regulator, KmtR
Swanson, G., Surette, V., Higgins, K.
56. Oncometabolite 2-Hydroxyglutarate inhibits α -KG/Fe(II) dependent DNA repair enzymes
Tang, Q.
57. Characterizing the role of PQN-75 in the *C. elegans* germline
Theriault, M., Tanner, P.
58. Inactivation of nuclear GSK3b by p38 MAP Kinase mediates survival in response to DNA double strand breaks
Thornton, T.M., Salas, B., von Brink, A., Heimann, R., Delgado, P., Ramiro, A., Rincón, M.
59. Magnetically responsive materials for improvements in biomaterial-base cancer immunotherapy
Tolouei, A.E., Kennedy, S.M.
60. Tumor-penetrating aerosol nanocomposite microparticles for the treatment of lung cancer
Torrco-Guzman E.A.¹, Meenach S.A.^{1,2}
61. Understanding the role of germ granules In maintaining germline integrity
Updike, D., Andralojc, K., Campbell, A., Kelly, A., Lajoie, C., Lust, H., Senter-Zapata, H., Tanner, P., Theriault, M.
62. Loss of endoglin expression in embryonic pax3-positive vascular progenitor cells impairs vessel formation
Young, K., Krebs, L., Tweedie, E., Conley, B., Liaw, L., Arthur, H., Gridley, T., Vary, C.
63. Is stress at the root of eelgrass decline in Frenchman Bay?
Wolf, A., Mayhew, J., James, K., Disney, J.
64. Delaware: Where great IDEAs happen
Wu, C.