

Collaborative PMI Publications (1/2008 – 2/2014)

1: Wang Y, Zhao L, Suzuki A, Lian L, Min SH, Wang Z, Litvinov RI, Stalker TJ, Yago T, Klopocki AG, Schmidtke DW, Yin H, Choi JK, McEver RP, Weisel JW, Hartwig JH, Abrams CS. Platelets lacking PIP5K γ have normal integrin activation but impaired cytoskeletal-membrane integrity and adhesion. *Blood*. 2013 Apr 4;121(14):2743-52. doi: 10.1182/blood-2012-07-445205. Epub 2013 Jan 31. PubMed PMID: 23372168; PubMed Central PMCID: PMC3617636.

2: Wang Y, Meng R, Hayes V, Fuentes R, Yu X, Abrams CS, Heijnen HF, Blobel GA, Marks MS, Poncz M. Pleiotropic platelet defects in mice with disrupted FOG1-NuRD interaction. *Blood*. 2011 Dec 1;118(23):6183-91. doi: 10.1182/blood-2011-06-363580. Epub 2011 Oct 11. PubMed PMID: 21989988; PubMed Central PMCID: PMC3234671.

3: Wang Y, Litvinov RI, Chen X, Bach TL, Lian L, Petrich BG, Monkley SJ, Kanaho Y, Critchley DR, Sasaki T, Birnbaum MJ, Weisel JW, Hartwig J, Abrams CS. Loss of PIP5K γ , unlike other PIP5K isoforms, impairs the integrity of the membrane cytoskeleton in murine megakaryocytes. *J Clin Invest*. 2008 Dec 15. pii: 34239C1. doi: 10.1172/JCI34239C1. [Epub ahead of print] PubMed PMID: 19075397; PubMed Central PMCID: PMC2633087.

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5: Barton ER, Park S, James JK, Makarewich CA, Philippou A, Eletto D, Lei H, Brisson B, Ostrovsky O, Li Z, Argon Y. Deletion of muscle GRP94 impairs both muscle and body growth by inhibiting local IGF production. *FASEB J*. 2012 Sep;26(9):3691-702. doi: 10.1096/fj.11-203026. Epub 2012 May 30. PubMed PMID: 22649033; PubMed Central PMCID: PMC3425820.

6: Huang Y, Biswas C, Klos Dehring DA, Sriram U, Williamson EK, Li S, Clarke F, Gallucci S, Argon Y, Burkhardt JK. The actin regulatory protein HS1 is required for antigen uptake and presentation by dendritic cells. *J Immunol*. 2011 Dec 1;187(11):5952-63. doi: 10.4049/jimmunol.1100870. Epub 2011 Oct 26. PubMed PMID: 22031761; PubMed Central PMCID: PMC3221870.

7: Dehring DA, Clarke F, Ricart BG, Huang Y, Gomez TS, Williamson EK, Hammer DA, Billadeau DD, Argon Y, Burkhardt JK. Hematopoietic lineage cell-specific protein 1 functions in concert with the Wiskott-Aldrich syndrome protein to promote

podosome array organization and chemotaxis in dendritic cells. *J Immunol.* 2011 Apr 15;186(8):4805-18. doi: 10.4049/jimmunol.1003102. Epub 2011 Mar 11. PubMed PMID: 21398607; PubMed Central PMCID: PMC3467106.

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9: Forbes SC, Bish LT, Ye F, Spinazzola J, Baligand C, Plant D, Vandenborne K, Barton ER, Sweeney HL, Walter GA. Gene transfer of arginine kinase to skeletal muscle using adeno-associated virus. *Gene Ther.* 2014 Feb 27. doi: 10.1038/gt.2014.9. [Epub ahead of print] PubMed PMID: 24572791.

10: Selsby JT, Acosta P, Sleeper MM, Barton ER, Sweeney HL. Long-term wheel running compromises diaphragm function but improves cardiac and plantarflexor function in the mdx mouse. *J Appl Physiol* (1985). 2013 Sep 1;115(5):660-6. doi: 10.1152/jappphysiol.00252.2013. Epub 2013 Jul 3. PubMed PMID: 23823150; PubMed Central PMCID: PMC3763072.

11: Selsby JT, Morine KJ, Pendrak K, Barton ER, Sweeney HL. Rescue of dystrophic skeletal muscle by PGC-1 α involves a fast to slow fiber type shift in the mdx mouse. *PLoS One.* 2012;7(1):e30063. doi: 10.1371/journal.pone.0030063. Epub 2012 Jan 11. PubMed PMID: 22253880; PubMed Central PMCID: PMC3256197.

12: Qaisar R, Renaud G, Morine K, Barton ER, Sweeney HL, Larsson L. Is functional hypertrophy and specific force coupled with the addition of myonuclei at the single muscle fiber level? *FASEB J.* 2012 Mar;26(3):1077-85. doi: 10.1096/fj.11-192195. Epub 2011 Nov 28. PubMed PMID: 22125316.

13: Bish LT, Yarchoan M, Sleeper MM, Gazzara JA, Morine KJ, Acosta P, Barton ER, Sweeney HL. Chronic losartan administration reduces mortality and preserves cardiac but not skeletal muscle function in dystrophic mice. *PLoS One.* 2011;6(6):e20856. doi: 10.1371/journal.pone.0020856. Epub 2011 Jun 22. PubMed PMID: 21731628; PubMed Central PMCID: PMC3120761.

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15: Morine KJ, Bish LT, Selsby JT, Gazzara JA, Pendrak K, Sleeper MM, Barton ER, Lee SJ, Sweeney HL. Activin IIB receptor blockade attenuates dystrophic pathology

in a mouse model of Duchenne muscular dystrophy. *Muscle Nerve*. 2010 Nov;42(5):722-30. doi: 10.1002/mus.21743. PubMed PMID: 20730876.

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17: Barton ER, Wang BJ, Brisson BK, Sweeney HL. Diaphragm displays early and progressive functional deficits in dysferlin-deficient mice. *Muscle Nerve*. 2010 Jul;42(1):22-9. doi: 10.1002/mus.21645. PubMed PMID: 20544921.

18: Morine KJ, Sleeper MM, Barton ER, Sweeney HL. Overexpression of SERCA1a in the mdx diaphragm reduces susceptibility to contraction-induced damage. *Hum Gene Ther*. 2010 Dec;21(12):1735-9. doi: 10.1089/hum.2010.077. PubMed PMID: 20540606; PubMed Central PMCID: PMC2999573.

19: Morine KJ, Bish LT, Pendrak K, Sleeper MM, Barton ER, Sweeney HL. Systemic myostatin inhibition via liver-targeted gene transfer in normal and dystrophic mice. *PLoS One*. 2010 Feb 11;5(2):e9176. doi: 10.1371/journal.pone.0009176. PubMed PMID: 20161803; PubMed Central PMCID: PMC2820101.

20: Millay DP, Sargent MA, Osinska H, Baines CP, Barton ER, Vuagniaux G, Sweeney HL, Robbins J, Molkentin JD. Genetic and pharmacologic inhibition of mitochondrial-dependent necrosis attenuates muscular dystrophy. *Nat Med*. 2008 Apr;14(4):442-7. doi: 10.1038/nm1736. Epub 2008 Mar 16. PubMed PMID: 18345011; PubMed Central PMCID: PMC2655270.

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23: Ellenbroek WG, Wang YH, Christian DA, Discher DE, Janmey PA, Liu AJ. Divalent cation-dependent formation of electrostatic PIP₂ clusters in lipid monolayers. *Biophys J*. 2011 Nov 2;101(9):2178-84. doi: 10.1016/j.bpj.2011.09.039. Epub 2011 Nov 1. PubMed PMID: 22067156; PubMed Central PMCID: PMC3207175.

24: Purohit PK, Litvinov RI, Brown AE, Discher DE, Weisel JW. Protein unfolding accounts for the unusual mechanical behavior of fibrin networks. *Acta Biomater.* 2011 Jun;7(6):2374-83. doi: 10.1016/j.actbio.2011.02.026. Epub 2011 Feb 20. PubMed PMID: 21342665; PubMed Central PMCID: PMC3134297.

25: Krieger CC, Bhasin N, Tewari M, Brown AE, Safer D, Sweeney HL, Discher DE. Exon-skipped dystrophins for treatment of Duchenne muscular dystrophy: mass spectrometry mapping of most exons and cooperative domain designs based on single molecule mechanics. *Cytoskeleton (Hoboken)*. 2010 Dec;67(12):796-807. doi: 10.1002/cm.20489. Epub 2010 Nov 10. PubMed PMID: 20886611; PubMed Central PMCID: PMC2996834.

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32: Brown AE, Hategan A, Safer D, Goldman YE, Discher DE. Cross-correlated TIRF/AFM reveals asymmetric distribution of force-generating heads along self-assembled, "synthetic" myosin filaments. *Biophys J.* 2009 Mar 4;96(5):1952-60. doi: 10.1016/j.bpj.2008.11.032. PubMed PMID: 19254555; PubMed Central PMCID: PMC2717282.

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