John L Hartman Iv

List of Publications by Year in Descending Order

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29 papers	1,050 citations	15 h-index	32 g-index
32 ext. papers	1,216 ext. citations	7.1 avg, IF	3.86 L-index

#	Paper	IF	Citations
29	University of Alabama at Birmingham Nathan Shock Center: comparative energetics of aging. *GeroScience*, **2021**, 43, 2149-2160	8.9	0
28	High-resolution yeast quiescence profiling in human-like media reveals complex influences of auxotrophy and nutrient availability. *GeroScience*, **2021**, 43, 941-964	8.9	3
27	A cell-nonautonomous mechanism of yeast chronological aging regulated by caloric restriction and one-carbon metabolism. *Journal of Biological Chemistry*, **2021**, 296, 100125	5.4	4
26	A Humanized Yeast Phenomic Model of Deoxycytidine Kinase to Predict Genetic Buffering of Nucleoside Analog Cytotoxicity. *Genes*, **2019**, 10,	4.2	1
25	A yeast phenomic model for the influence of Warburg metabolism on genetic buffering of doxorubicin. *Cancer & Metabolism*, **2019**, 7, 9	5.4	4
24	Slowing ribosome velocity restores folding and function of mutant CFTR. *Journal of Clinical Investigation*, **2019**, 129, 5236-5253	15.9	16
23	Gene-nutrient interaction markedly influences yeast chronological lifespan. *Experimental Gerontology*, **2016**, 86, 113-123	4.5	17
22	Long-range coupling between the extracellular gates and the intracellular ATP binding domains of multidrug resistance protein pumps and cystic fibrosis transmembrane conductance regulator channels. *FASEB Journal*, **2016**, 30, 1247-62	0.9	11
21	Ribosomal Stalk Protein Silencing Partially Corrects the ▯508-CFTR Functional Expression Defect. *PLoS Biology*, **2016**, 14, e1002462	9.7	37
20	Yeast Phenomics: An Experimental Approach for Modeling Gene Interaction Networks that Buffer Disease. *Genes*, **2015**, 6, 24-45	4.2	10
19	Conserved allosteric hot spots in the transmembrane domains of cystic fibrosis transmembrane conductance regulator (CFTR) channels and multidrug resistance protein (MRP) pumps. *Journal of Biological Chemistry*, **2014**, 289, 19942-57	5.4	15
18	Aging and energeticsWTop 40Wfuture research opportunities 2010-2013. *F1000Research*, **2014**, 3, 219	3.6	14
17	Phenomic assessment of genetic buffering by kinetic analysis of cell arrays. *Methods in Molecular Biology*, **2014**, 1205, 187-208	1.4	7
16	The SWI/SNF chromatin remodeling complex influences transcription by RNA polymerase I in Saccharomyces cerevisiae. *PLoS ONE*, **2013**, 8, e56793	3.7	15
15	A yeast phenomic model for the gene interaction network modulating CFTR-▯508 protein biogenesis. *Genome Medicine*, **2012**, 4, 103	14.4	58
14	A screen to identify small molecule inhibitors of protein-protein interactions in mycobacteria. *Assay and Drug Development Technologies*, **2011**, 9, 299-310	2.1	11
13	Recursive expectation-maximization clustering: a method for identifying buffering mechanisms composed of phenomic modules. *Chaos*, **2010**, 20, 026103	3.3	9

LIST OF PUBLICATIONS

12	Genomewide analysis reveals novel pathways affecting endoplasmic reticulum homeostasis, protein modification and quality control. *Genetics*, **2009**, 182, 757-69	4	49
11	Stringent mating-type-regulated auxotrophy increases the accuracy of systematic genetic interaction screens with Saccharomyces cerevisiae mutant arrays. *Genetics*, **2009**, 181, 289-300	4	13
10	Defining genetic interaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 3461-6	11.5	321
9	High throughput drug screening for human immunodeficiency virus type 1 reactivating compounds. *Assay and Drug Development Technologies*, **2007**, 5, 181-89	2.1	17
8	Accurate, precise modeling of cell proliferation kinetics from time-lapse imaging and automated image analysis of agar yeast culture arrays. *BMC Systems Biology*, **2007**, 1, 3	3.5	34
7	Buffering of deoxyribonucleotide pool homeostasis by threonine metabolism. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 11700-5	11.5	36
6	Genetic and Molecular Buffering of Phenotypes **2006**, 105-134		2
5	The case for strategic international alliances to harness nutritional genomics for public and personal health. *British Journal of Nutrition*, **2005**, 94, 623-32	3.6	112
4	Systematic quantification of gene interactions by phenotypic array analysis. *Genome Biology*, **2004**, 5, R49	18.3	54
3	Principles for the Buffering of Genetic Variation. *Science*, **2001**, 291, 1001-1004	33.3	101
2	Functional reconstitution in situ of 5-hydroxytryptamine2c (5HT2c) receptors with alphaq and inverse agonism of 5HT2c receptor antagonists. *Journal of Biological Chemistry*, **1996**, 271, 22591-7	5.4	78
1	A yeast phenomic model for the influence of Warburg metabolism on genetic buffering of doxorubicin		1