Dianne Cox

List of Publications by Year in Descending Order

37 papers	2,990 citations	26 h-index	37 g-index
37 ext. papers	3,314 ext. citations	6.3 avg, IF	4.77 L-index

#	Paper	IF	Citations
37	Optogenetics: Rho GTPases Activated by Light in Living Macrophages. *Methods in Molecular Biology*, **2020**, 2108, 281-293	1.4	1
36	Differential regulation of rho GTPases during lung adenocarcinoma migration and invasion reveals a novel role of the tumor suppressor StarD13 in invadopodia regulation. *Cell Communication and Signaling*, **2020**, 18, 144	7.5	8
35	Microscopic Methods for Analysis of Macrophage-Induced Tunneling Nanotubes. *Methods in Molecular Biology*, **2020**, 2108, 273-279	1.4	3
34	Tunneling nanotubes, a novel mode of tumor cell-macrophage communication in tumor cell invasion. *Journal of Cell Science*, **2019**, 132,	5.3	48
33	Macrophages enhance 3D invasion in a breast cancer cell line by induction of tumor cell tunneling nanotubes. *Cancer Reports*, **2019**, 2, e1213	1.5	7
32	Characterization of Genetically Encoded FRET Biosensors for Rho-Family GTPases. *Methods in Molecular Biology*, **2018**, 1821, 87-106	1.4	3
31	Blood vessel endothelium-directed tumor cell streaming in breast tumors requires the HGF/C-Met signaling pathway. *Oncogene*, **2017**, 36, 2680-2692	9.2	53
30	The Role of Rho-GTPases and actin polymerization during Macrophage Tunneling Nanotube Biogenesis. *Scientific Reports*, **2017**, 7, 8547	4.9	62
29	Using Fluorescence Resonance Energy Transfer-Based Biosensors to Probe Rho GTPase Activation During Phagocytosis. *Methods in Molecular Biology*, **2017**, 1519, 125-143	1.4	6
28	Exosomes and nanotubes: Control of immune cell communication. *International Journal of Biochemistry and Cell Biology*, **2016**, 71, 44-54	5.6	76
27	Optical Tools To Study the Isoform-Specific Roles of Small GTPases in Immune Cells. *Journal of Immunology*, **2016**, 196, 3479-93	5.3	15
26	Synonymous modification results in high-fidelity gene expression of repetitive protein and nucleotide sequences. *Genes and Development*, **2015**, 29, 876-86	12.6	50
25	Tyrosine phosphorylation of Wiskott-Aldrich syndrome protein (WASP) by Hck regulates macrophage function. *Journal of Biological Chemistry*, **2014**, 289, 7897-906	5.4	17
24	Invasive breast carcinoma cells from patients exhibit MenaINV- and macrophage-dependent transendothelial migration. *Science Signaling*, **2014**, 7, ra112	8.8	68
23	A new genetically encoded single-chain biosensor for Cdc42 based on FRET, useful for live-cell imaging. *PLoS ONE*, **2014**, 9, e96469	3.7	35
22	An in vitro one-dimensional assay to study growth factor-regulated tumor cell-macrophage interaction. *Methods in Molecular Biology*, **2014**, 1172, 115-23	1.4	8
21	Wiskott-Aldrich syndrome protein regulates leukocyte-dependent breast cancer metastasis. *Cell Reports*, **2013**, 4, 429-36	10.6	36

20	Generation of membrane structures during phagocytosis and chemotaxis of macrophages: role and regulation of the actin cytoskeleton. *Immunological Reviews*, **2013**, 256, 222-39	11.3	140
19	Contribution of CXCL12 secretion to invasion of breast cancer cells. *Breast Cancer Research*, **2012**, 14, R23	8.3	79
18	Reconstitution of in vivo macrophage-tumor cell pairing and streaming motility on one-dimensional micro-patterned substrates. *Intravital*, **2012**, 1, 77-85		39
17	The chemotactic defect in wiskott-Aldrich syndrome macrophages is due to the reduced persistence of directional protrusions. *PLoS ONE*, **2012**, 7, e30033	3.7	28
16	Regulation of tyrosine phosphorylation in macrophage phagocytosis and chemotaxis. *Archives of Biochemistry and Biophysics*, **2011**, 510, 101-11	4.1	27
15	N-WASP has the ability to compensate for the loss of WASP in macrophage podosome formation and chemotaxis. *Experimental Cell Research*, **2010**, 316, 3406-16	4.2	26
14	Regulation of podosome dynamics by WASp phosphorylation: implication in matrix degradation and chemotaxis in macrophages. *Journal of Cell Science*, **2009**, 122, 3873-82	5.3	85
13	Cdc42 regulates Fc gamma receptor-mediated phagocytosis through the activation and phosphorylation of Wiskott-Aldrich syndrome protein (WASP) and neural-WASP. *Molecular Biology of the Cell*, **2009**, 20, 4500-8	3.5	90
12	The mechanism of CSF-1-induced Wiskott-Aldrich syndrome protein activation in vivo: a role for phosphatidylinositol 3-kinase and Cdc42. *Journal of Biological Chemistry*, **2009**, 284, 23302-11	5.4	30
11	The EGF/CSF-1 paracrine invasion loop can be triggered by heregulin beta1 and CXCL12. *Cancer Research*, **2009**, 69, 3221-7	10.1	103
10	Membrane targeting of WAVE2 is not sufficient for WAVE2-dependent actin polymerization: a role for IRSp53 in mediating the interaction between Rac and WAVE2. *Journal of Cell Science*, **2008**, 121, 379-90	5.3	61
9	A WAVE2-Abi1 complex mediates CSF-1-induced F-actin-rich membrane protrusions and migration in macrophages. *Journal of Cell Science*, **2005**, 118, 5369-79	5.3	68
8	Macrophages promote the invasion of breast carcinoma cells via a colony-stimulating factor-1/epidermal growth factor paracrine loop. *Cancer Research*, **2005**, 65, 5278-83	10.1	581
7	Myosin X is a downstream effector of PI(3)K during phagocytosis. *Nature Cell Biology*, **2002**, 4, 469-77	23.4	191
6	A requirement for phosphatidylinositol 3-kinase in pseudopod extension. *Journal of Biological Chemistry*, **1999**, 274, 1240-7	5.4	334
5	Requirements for both Rac1 and Cdc42 in membrane ruffling and phagocytosis in leukocytes. *Journal of Experimental Medicine*, **1997**, 186, 1487-94	16.6	379
4	Re-expression of ABP-120 rescues cytoskeletal, motility, and phagocytosis defects of ABP-120-Dictyostelium mutants. *Molecular Biology of the Cell*, **1996**, 7, 803-23	3.5	53
3	Genetic deletion of ABP-120 alters the three-dimensional organization of actin filaments in Dictyostelium pseudopods. *Journal of Cell Biology*, **1995**, 128, 819-35	7.3	67

2	Targeted disruption of the ABP-120 gene leads to cells with altered motility. *Journal of Cell Biology*, **1992**, 116, 943-55	7.3	110
1	Spatio-temporal mapping of mechanical force generated by macrophages during FcR-dependent phagocytosis reveals adaptation to target stiffness		3