Silvia C Finnemann

List of Publications by Year
in descending order

61	3,492	186265 28	189892 50
papers	citations	h-index	g-index

62	62	62	3643
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Loss of Synchronized Retinal Phagocytosis and Age-related Blindness in Mice Lacking Î±vÎ²5 Integrin. Journal of Experimental Medicine, 2004, 200, 1539-1545.	8.5	295
2	The lipofuscin component A2E selectively inhibits phagolysosomal degradation of photoreceptor phospholipid by the retinal pigment epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3842-3847.	7.1	254
3	Essential role for MFG-E8 as ligand for Î±vÎ²5 integrin in diurnal retinal phagocytosis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12005-12010.	7.1	203
4	Focal adhesion kinase signaling promotes phagocytosis of integrin-bound photoreceptors. EMBO Journal, 2003, 22, 4143-4154.	7.8	176
5	Understanding photoreceptor outer segment phagocytosis: Use and utility of RPE cells in culture. Experimental Eye Research, 2014, 126, 51-60.	2.6	167
6	Ezrin Promotes Morphogenesis of Apical Microvilli and Basal Infoldings in Retinal Pigment Epithelium. Journal of Cell Biology, 1999, 147, 1533-1548.	5.2	145
7	The lipofuscin fluorophore A2E perturbs cholesterol metabolism in retinal pigment epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11026-11031.	7.1	145
8	Light-induced Oxidation of Photoreceptor Outer Segment Phospholipids Generates Ligands for CD36-mediated Phagocytosis by Retinal Pigment Epithelium. Journal of Biological Chemistry, 2006, 281, 4222-4230.	3.4	142
9	Macrophage and Retinal Pigment Epithelium Phagocytosis. Journal of Experimental Medicine, 1999, 190, 861-874.	8.5	138
10	Differential Roles of CD36 and Î±vÎ²5 Integrin in Photoreceptor Phagocytosis by the Retinal Pigment Epithelium. Journal of Experimental Medicine, 2001, 194, 1289-1298.	8.5	138
11	The Age Lipid A2E and Mitochondrial Dysfunction Synergistically Impair Phagocytosis by Retinal Pigment Epithelial Cells. Journal of Biological Chemistry, 2008, 283, 24770-24780.	3.4	135
12	Diurnal, localized exposure of phosphatidylserine by rod outer segment tips in wild-type but notItgb5^{â^'/â^'}orMfge8^{â^'/â^'}mouse retina. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8145-8148.	7.1	131
13	Regulation of phagocytosis by Rho GTPases. Small GTPases, 2015, 6, 89-99.	1.6	115
14	Expression of ABCA4 in the retinal pigment epithelium and its implications for Stargardt macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11120-E11127.	7.1	112
15	Morphogenesis of the Retinal Pigment Epithelium: Toward Understanding Retinal Degenerative Diseasesa. Annals of the New York Academy of Sciences, 1998, 857, 1-12.	3.8	88
16	Tetraspanin CD81 is required for the Î±vÎ²5-integrin-dependent particle-binding step of RPE phagocytosis. Journal of Cell Science, 2007, 120, 3053-3063.	2.0	77
17	Novel role for Î±_vÎ²₅-integrin in retinal adhesion and its diurnal peak. American Journal of Physiology - Cell Physiology, 2006, 290, C1256-C1262.	4.6	66
18	Essential diurnal Rac1 activation during retinal phagocytosis requires Î±vÎ²5 integrin but not tyrosine kinases focal adhesion kinase or Mer tyrosine kinase. Molecular Biology of the Cell, 2012, 23, 1104-1114.	2.1	66

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19	Analysis of Photoreceptor Outer Segment Phagocytosis by RPE Cells in Culture. Methods in Molecular Biology, 2012, 935, 285-295.	0.9	59
20	Dietary antioxidants prevent age-related retinal pigment epithelium actin damage and blindness in mice lacking Î±vÎ²5 integrin. Free Radical Biology and Medicine, 2012, 52, 660-670.	2.9	55
21	Mertk Activation During RPE Phagocytosis in Vivo Requires Î±VÎ²5 Integrin. , 2006, 572, 499-503.		55
22	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. Nature Communications, 2016, 7, 12832.	12.8	54
23	Apical Polarity of N-CAM and EMMPRIN in Retinal Pigment Epithelium Resulting from Suppression of Basolateral Signal Recognition. Journal of Cell Biology, 1998, 142, 697-710.	5.2	53
24	The Developmental Stage of Adult Human Stem Cell-Derived Retinal Pigment Epithelium Cells Influences Transplant Efficacy for Vision Rescue. Stem Cell Reports, 2017, 9, 42-49.	4.8	53
25	Regulation of Phagolysosomal Digestion by Caveolin-1 of the Retinal Pigment Epithelium Is Essential for Vision. Journal of Biological Chemistry, 2016, 291, 6494-6506.	3.4	46
26	Retinal pigment epithelial cells use a MerTKâ€dependent mechanism to limit the phagocytic particle binding activity of Î±vÎ²5 integrin. Biology of the Cell, 2012, 104, 326-341.	2.0	38
27	PI 3-kinase independent role for AKT in F-actin regulation during outer segment phagocytosis by RPE cells. Experimental Eye Research, 2013, 113, 9-18.	2.6	37
28	Large-Scale Purification of Porcine or Bovine Photoreceptor Outer Segments for Phagocytosis Assays on Retinal Pigment Epithelial Cells. Journal of Visualized Experiments, 2014, , .	0.3	36
29	Quantified F-Actin Morphology Is Predictive of Phagocytic Capacity of Stem Cell-Derived Retinal Pigment Epithelium. Stem Cell Reports, 2018, 10, 1075-1087.	4.8	33
30	Microglia Inhibition Delays Retinal Degeneration Due to MerTK Phagocytosis Receptor Deficiency. Frontiers in Immunology, 2020, 11, 1463.	4.8	31
31	Analysis of Photoreceptor Rod Outer Segment Phagocytosis by RPE Cells In Situ. Methods in Molecular Biology, 2012, 935, 245-254.	0.9	27
32	Cell culture models to study retinal pigment epithelium-related pathogenesis in age-related macular degeneration. Experimental Eye Research, 2022, 222, 109170.	2.6	27
33	Role of Î±vÎ²5 Integrin in Regulating Phagocytosis by the Retinal Pigment Epithelium. Advances in Experimental Medicine and Biology, 2003, 533, 337-342.	1.6	24
34	Annexin A5 regulates surface Î±vÎ²5 integrin for retinal clearance phagocytosis. Journal of Cell Science, 2019, 132, .	2.0	24
35	Non-invasive in vivo fluorescence imaging of apoptotic retinal photoreceptors. Scientific Reports, 2019, 9, 1590.	3.3	21
36	Changes in Retinal Pigment Epithelial Gene Expression Induced by Rod Outer Segment Uptake. , 2004, 45, 2098.		20

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37	Lack of αvβ5 Integrin Receptor or Its Ligand MFG-E8: Distinct Effects on Retinal Function. Ophthalmic Research, 2008, 40, 120-123.	1.9	20
38	Advanced Analysis of Photoreceptor Outer Segment Phagocytosis by RPE Cells in Culture. Methods in Molecular Biology, 2019, 1834, 95-108.	0.9	19
39	Expression and characterization of Î±vÎ²5 integrin on intestinal macrophages. European Journal of Immunology, 2018, 48, 1181-1187.	2.9	17
40	Live Imaging of LysoTracker-Labelled Phagolysosomes Tracks Diurnal Phagocytosis of Photoreceptor Outer Segment Fragments in Rat RPE Tissue Ex Vivo. Advances in Experimental Medicine and Biology, 2016, 854, 717-723.	1.6	15
41	Sex-specific multi-level 3D genome dynamics in the mouse brain. Nature Communications, 2022, 13, .	12.8	15
42	Nonsynaptic localization of the excitatory amino acid transporter 4 in photoreceptors. Molecular and Cellular Neurosciences, 2005, 28, 440-451.	2.2	14
43	Semaphorin4D-PlexinB1 Signaling Attenuates Photoreceptor Outer Segment Phagocytosis by Reducing Rac1 Activity of RPE Cells. Molecular Neurobiology, 2018, 55, 4320-4332.	4.0	14
44	Independent roles of methionine sulfoxide reductase A in mitochondrial ATP synthesis and as antioxidant in retinal pigment epithelial cells. Free Radical Biology and Medicine, 2013, 65, 1340-1351.	2.9	12
45	Neural Retina and MerTK-Independent Apical Polarity of Î±vÎ²5 Integrin Receptors in the Retinal Pigment Epithelium. Advances in Experimental Medicine and Biology, 2010, 664, 123-131.	1.6	12
46	Galectin-3 Promotes MÃ¼ller Glia Clearance Phagocytosis via MERTK and Reduces Harmful MÃ¼ller Glia Activation in Inherited and Induced Retinal Degeneration. Frontiers in Cellular Neuroscience, 0, 16, .	3.7	11
47	Diurnal Photoreceptor Outer Segment Renewal in Mice Is Independent of Galectin-3. , 2021, 62, 7.		9
48	No Difference Between Age-Matched Male and Female C57BL/6J Mice in Photopic and Scotopic Electroretinogram a- and b-Wave Amplitudes orÂin Peak Diurnal Outer Segment Phagocytosis by the Retinal Pigment Epithelium. Advances in Experimental Medicine and Biology, 2019, 1185, 507-511.	1.6	9
49	Probing Photoreceptor Outer Segment Phagocytosis by the RPE In Vivo: Models and Methodologies. International Journal of Molecular Sciences, 2022, 23, 3661.	4.1	9
50	Lack of the antioxidant enzyme methionine sulfoxide reductase A in mice impairs RPE phagocytosis and causes photoreceptor cone dysfunction. Redox Biology, 2021, 42, 101918.	9.0	8
51	Acute RhoA/Rho Kinase Inhibition Is Sufficient to Restore Phagocytic Capacity to Retinal Pigment Epithelium Lacking the Engulfment Receptor MerTK. Cells, 2021, 10, 1927.	4.1	6
52	RPE Phagocytosis. , 2020, , 47-63.		5
53	Retinal Pre-Conditioning by CD59a Knockout Protects against Light-Induced Photoreceptor Degeneration. PLoS ONE, 2016, 11, e0166348.	2.5	4
54	Rhythmicity of the Retinal Pigment Epithelium. , 2014, , 95-112.		2

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55	Roles of Integrin Receptors in the Daily Phagocytosis of Photoreceptor Outer Segment Fragments by the RPE. , 2004, , 371-395.		1
56	Comment on â€˜Integrin Î±vÎ²2 is not required for the phagocytosis of photoreceptor outer segments by cultured retinal pigment epithelial cellsâ€™ by M.O. Hall, T.A. Abrams and B.L. Burgess [Exp. Eye Res. 77 (2003) 281â€“286]. Experimental Eye Research, 2004, 78, 309-310.	2.6	1
57	Efficiency of Membrane Protein Expression Following Infection with Recombinant Adenovirus of Polarized Non-Transformed Human Retinal Pigment Epithelial Cells. Advances in Experimental Medicine and Biology, 2016, 854, 731-737.	1.6	1
58	The age lipid A2E and mitochondrial dysfunction synergistically impair phagocytosis by retinal pigment epithelial cells.. Journal of Biological Chemistry, 2013, 288, 32639.	3.4	0
59	Dietary Antioxidants, Î±vÎ²5 Integrin, and Ocular Protection. , 2014, , 567-576.		0
60	Effects of Grape-Enriched Antioxidant Diet on Retinal Pigment Epithelium Organelles Under Oxidative Stress. , 2019, , 351-365.		0
61	Grapes and Vision. , 2016, , 213-235.		0