

# Silvia C Finnemann

## List of Publications by Year in descending order

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61  
papers

3,492  
citations

186265

28  
h-index

189892

50  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3643  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Photoreceptor Outer Segment Phagocytosis by the RPE In Vivo: Models and Methodologies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3661.	4.1	9
2	Sex-specific multi-level 3D genome dynamics in the mouse brain. <i>Nature Communications</i> , 2022, 13, .	12.8	15
3	Cell culture models to study retinal pigment epithelium-related pathogenesis in age-related macular degeneration. <i>Experimental Eye Research</i> , 2022, 222, 109170.	2.6	27
4	Diurnal Photoreceptor Outer Segment Renewal in Mice Is Independent of Galectin-3. , 2021, 62, 7.		9
5	Lack of the antioxidant enzyme methionine sulfoxide reductase A in mice impairs RPE phagocytosis and causes photoreceptor cone dysfunction. <i>Redox Biology</i> , 2021, 42, 101918.	9.0	8
6	Acute RhoA/Rho Kinase Inhibition Is Sufficient to Restore Phagocytic Capacity to Retinal Pigment Epithelium Lacking the Engulfment Receptor MerTK. <i>Cells</i> , 2021, 10, 1927.	4.1	6
7	Microglia Inhibition Delays Retinal Degeneration Due to MerTK Phagocytosis Receptor Deficiency. <i>Frontiers in Immunology</i> , 2020, 11, 1463.	4.8	31
8	RPE Phagocytosis. , 2020, , 47-63.		5
9	Annexin A5 regulates surface $\alpha 5 \beta 1$ integrin for retinal clearance phagocytosis. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	24
10	Effects of Grape-Enriched Antioxidant Diet on Retinal Pigment Epithelium Organelles Under Oxidative Stress. , 2019, , 351-365.		0
11	Non-invasive in vivo fluorescence imaging of apoptotic retinal photoreceptors. <i>Scientific Reports</i> , 2019, 9, 1590.	3.3	21
12	Advanced Analysis of Photoreceptor Outer Segment Phagocytosis by RPE Cells in Culture. <i>Methods in Molecular Biology</i> , 2019, 1834, 95-108.	0.9	19
13	No Difference Between Age-Matched Male and Female C57BL/6J Mice in Photopic and Scotopic Electroretinogram a- and b-Wave Amplitudes or $\alpha$ Peak Diurnal Outer Segment Phagocytosis by the Retinal Pigment Epithelium. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1185, 507-511.	1.6	9
14	Quantified F-Actin Morphology Is Predictive of Phagocytic Capacity of Stem Cell-Derived Retinal Pigment Epithelium. <i>Stem Cell Reports</i> , 2018, 10, 1075-1087.	4.8	33
15	Expression and characterization of $\alpha 5 \beta 1$ integrin on intestinal macrophages. <i>European Journal of Immunology</i> , 2018, 48, 1181-1187.	2.9	17
16	Semaphorin4D-PlexinB1 Signaling Attenuates Photoreceptor Outer Segment Phagocytosis by Reducing Rac1 Activity of RPE Cells. <i>Molecular Neurobiology</i> , 2018, 55, 4320-4332.	4.0	14
17	Expression of ABCA4 in the retinal pigment epithelium and its implications for Stargardt macular degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11120-E11127.	7.1	112
18	The Developmental Stage of Adult Human Stem Cell-Derived Retinal Pigment Epithelium Cells Influences Transplant Efficacy for Vision Rescue. <i>Stem Cell Reports</i> , 2017, 9, 42-49.	4.8	53

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19	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. <i>Nature Communications</i> , 2016, 7, 12832.	12.8	54
20	Regulation of Phagolysosomal Digestion by Caveolin-1 of the Retinal Pigment Epithelium Is Essential for Vision. <i>Journal of Biological Chemistry</i> , 2016, 291, 6494-6506.	3.4	46
21	Efficiency of Membrane Protein Expression Following Infection with Recombinant Adenovirus of Polarized Non-Transformed Human Retinal Pigment Epithelial Cells. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 731-737.	1.6	1
22	Live Imaging of LysoTracker-Labelled Phagolysosomes Tracks Diurnal Phagocytosis of Photoreceptor Outer Segment Fragments in Rat RPE Tissue Ex Vivo. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 717-723.	1.6	15
23	Retinal Pre-Conditioning by CD59a Knockout Protects against Light-Induced Photoreceptor Degeneration. <i>PLoS ONE</i> , 2016, 11, e0166348.	2.5	4
24	Grapes and Vision. , 2016, , 213-235.		0
25	Regulation of phagocytosis by Rho GTPases. <i>Small GTPases</i> , 2015, 6, 89-99.	1.6	115
26	Dietary Antioxidants, $\alpha$ 25 Integrin, and Ocular Protection. , 2014, , 567-576.		0
27	Understanding photoreceptor outer segment phagocytosis: Use and utility of RPE cells in culture. <i>Experimental Eye Research</i> , 2014, 126, 51-60.	2.6	167
28	Large-Scale Purification of Porcine or Bovine Photoreceptor Outer Segments for Phagocytosis Assays on Retinal Pigment Epithelial Cells. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	36
29	Rhythmicity of the Retinal Pigment Epithelium. , 2014, , 95-112.		2
30	Independent roles of methionine sulfoxide reductase A in mitochondrial ATP synthesis and as antioxidant in retinal pigment epithelial cells. <i>Free Radical Biology and Medicine</i> , 2013, 65, 1340-1351.	2.9	12
31	PI 3-kinase independent role for AKT in F-actin regulation during outer segment phagocytosis by RPE cells. <i>Experimental Eye Research</i> , 2013, 113, 9-18.	2.6	37
32	The age lipid A2E and mitochondrial dysfunction synergistically impair phagocytosis by retinal pigment epithelial cells.. <i>Journal of Biological Chemistry</i> , 2013, 288, 32639.	3.4	0
33	Essential diurnal Rac1 activation during retinal phagocytosis requires $\alpha$ 25 integrin but not tyrosine kinases focal adhesion kinase or Mer tyrosine kinase. <i>Molecular Biology of the Cell</i> , 2012, 23, 1104-1114.	2.1	66
34	Diurnal, localized exposure of phosphatidylserine by rod outer segment tips in wild-type but not <i>Itgb5</i> <sup>-/-</sup> or <i>Mfge8</i> <sup>-/-</sup> mouse retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8145-8148.	7.1	131
35	Dietary antioxidants prevent age-related retinal pigment epithelium actin damage and blindness in mice lacking $\alpha$ 25 integrin. <i>Free Radical Biology and Medicine</i> , 2012, 52, 660-670.	2.9	55
36	Retinal pigment epithelial cells use a MerTK-dependent mechanism to limit the phagocytic particle binding activity of $\alpha$ 25 integrin. <i>Biology of the Cell</i> , 2012, 104, 326-341.	2.0	38

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37	Analysis of Photoreceptor Rod Outer Segment Phagocytosis by RPE Cells In Situ. <i>Methods in Molecular Biology</i> , 2012, 935, 245-254.	0.9	27
38	Analysis of Photoreceptor Outer Segment Phagocytosis by RPE Cells in Culture. <i>Methods in Molecular Biology</i> , 2012, 935, 285-295.	0.9	59
39	Neural Retina and MerTK-Independent Apical Polarity of $\alpha_5\beta_1$ Integrin Receptors in the Retinal Pigment Epithelium. <i>Advances in Experimental Medicine and Biology</i> , 2010, 664, 123-131.	1.6	12
40	Lack of $\alpha_5\beta_1$ Integrin Receptor or Its Ligand MFG-E8: Distinct Effects on Retinal Function. <i>Ophthalmic Research</i> , 2008, 40, 120-123.	1.9	20
41	The Age Lipid A2E and Mitochondrial Dysfunction Synergistically Impair Phagocytosis by Retinal Pigment Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 24770-24780.	3.4	135
42	Essential role for MFG-E8 as ligand for $\alpha_5\beta_1$ integrin in diurnal retinal phagocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12005-12010.	7.1	203
43	The lipofuscin fluorophore A2E perturbs cholesterol metabolism in retinal pigment epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11026-11031.	7.1	145
44	Tetraspanin CD81 is required for the $\alpha_5\beta_1$ -integrin-dependent particle-binding step of RPE phagocytosis. <i>Journal of Cell Science</i> , 2007, 120, 3053-3063.	2.0	77
45	Novel role for $\alpha_5\beta_1$ -integrin in retinal adhesion and its diurnal peak. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1256-C1262.	4.6	66
46	Light-induced Oxidation of Photoreceptor Outer Segment Phospholipids Generates Ligands for CD36-mediated Phagocytosis by Retinal Pigment Epithelium. <i>Journal of Biological Chemistry</i> , 2006, 281, 4222-4230.	3.4	142
47	Mertk Activation During RPE Phagocytosis in Vivo Requires $\alpha_5\beta_1$ Integrin. , 2006, 572, 499-503.		55
48	Nonsynaptic localization of the excitatory amino acid transporter 4 in photoreceptors. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 440-451.	2.2	14
49	Roles of Integrin Receptors in the Daily Phagocytosis of Photoreceptor Outer Segment Fragments by the RPE. , 2004, , 371-395.		1
50	Changes in Retinal Pigment Epithelial Gene Expression Induced by Rod Outer Segment Uptake. , 2004, 45, 2098.		20
51	Loss of Synchronized Retinal Phagocytosis and Age-related Blindness in Mice Lacking $\alpha_5\beta_1$ Integrin. <i>Journal of Experimental Medicine</i> , 2004, 200, 1539-1545.	8.5	295
52	Comment on "Integrin $\alpha_5\beta_1$ is not required for the phagocytosis of photoreceptor outer segments by cultured retinal pigment epithelial cells" by M.O. Hall, T.A. Abrams and B.L. Burgess [ <i>Exp. Eye Res.</i> 77 (2003) 281-286]. <i>Experimental Eye Research</i> , 2004, 78, 309-310.	2.6	1
53	Focal adhesion kinase signaling promotes phagocytosis of integrin-bound photoreceptors. <i>EMBO Journal</i> , 2003, 22, 4143-4154.	7.8	176
54	Role of $\alpha_5\beta_1$ Integrin in Regulating Phagocytosis by the Retinal Pigment Epithelium. <i>Advances in Experimental Medicine and Biology</i> , 2003, 533, 337-342.	1.6	24

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55	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
56	Differential Roles of CD36 and $\alpha$ 5 $\beta$ 2 Integrin in Photoreceptor Phagocytosis by the Retinal Pigment Epithelium. Journal of Experimental Medicine, 2001, 194, 1289-1298.	8.5	138
57	Ezrin Promotes Morphogenesis of Apical Microvilli and Basal Infoldings in Retinal Pigment Epithelium. Journal of Cell Biology, 1999, 147, 1533-1548.	5.2	145
58	Macrophage and Retinal Pigment Epithelium Phagocytosis. Journal of Experimental Medicine, 1999, 190, 861-874.	8.5	138
59	Morphogenesis of the Retinal Pigment Epithelium: Toward Understanding Retinal Degenerative Diseases. Annals of the New York Academy of Sciences, 1998, 857, 1-12.	3.8	88
60	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
61	Galectin-3 Promotes Müller Glia Clearance Phagocytosis via MERTK and Reduces Harmful Müller Glia Activation in Inherited and Induced Retinal Degeneration. Frontiers in Cellular Neuroscience, 0, 16, .	3.7	11