

Alexa Klettner

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,647
citations

257450

24
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361022

35
g-index

65
all docs

65
docs citations

65
times ranked

1876
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Comparison of Bevacizumab, Ranibizumab, and Pegaptanib In Vitro: Efficiency and Possible Additional Pathways. , 2008, 49, 4523. | | 167 |
| 2 | Retina in a dish: Cell cultures, retinal explants and animal models for common diseases of the retina. Progress in Retinal and Eye Research, 2021, 81, 100880. | 15.5 | 71 |
| 3 | Cellular and molecular mechanisms of age-related macular degeneration: From impaired autophagy to neovascularization. International Journal of Biochemistry and Cell Biology, 2013, 45, 1457-1467. | 2.8 | 66 |
| 4 | Constitutive and oxidative-stress-induced expression of VEGF in the RPE are differently regulated by different Mitogen-activated protein kinases. Graefe's Archive for Clinical and Experimental Ophthalmology, 2009, 247, 1487-1492. | 1.9 | 65 |
| 5 | Oxidative stress induced cellular signaling in RPE cells. Frontiers in Bioscience - Scholar, 2012, S4, 392-411. | 2.1 | 65 |
| 6 | Fucoidan Reduces Secretion and Expression of Vascular Endothelial Growth Factor in the Retinal Pigment Epithelium and Reduces Angiogenesis In Vitro. PLoS ONE, 2014, 9, e89150. | 2.5 | 59 |
| 7 | Regulation of constitutive vascular endothelial growth factor secretion in retinal pigment epithelium/choroid organ cultures: p38, nuclear factor κ B, and the vascular endothelial growth factor receptor-2/phosphatidylinositol 3 kinase pathway. Molecular Vision, 2013, 19, 281-91. | 1.1 | 54 |
| 8 | Effects of aflibercept on primary RPE cells: toxicity, wound healing, uptake and phagocytosis. British Journal of Ophthalmology, 2014, 98, 1448-1452. | 3.9 | 44 |
| 9 | VEGF Antagonists Decrease Barrier Function of Retinal Pigment Epithelium In Vitro: Possible Participation of Intracellular Glutathione. Investigative Ophthalmology and Visual Science, 2010, 51, 4848-4855. | 3.3 | 43 |
| 10 | Comparison of the efficacy of aflibercept, ranibizumab, and bevacizumab in an RPE/choroid organ culture. Graefe's Archive for Clinical and Experimental Ophthalmology, 2014, 252, 1593-1598. | 1.9 | 42 |
| 11 | Oxidative stress induced cellular signaling in RPE cells. Frontiers in Bioscience - Scholar, 2012, S4, 392. | 2.1 | 41 |
| 12 | Intracellular bevacizumab reduces phagocytotic uptake in RPE cells. Graefe's Archive for Clinical and Experimental Ophthalmology, 2010, 248, 819-824. | 1.9 | 40 |
| 13 | Toll-like receptor 3 activation in retinal pigment epithelium cells κ Mitogen-activated protein kinase pathways of cell death and vascular endothelial growth factor secretion. Acta Ophthalmologica, 2013, 91, e211-8. | 1.1 | 38 |
| 14 | Deferoxamine mesylate is toxic for retinal pigment epithelium cells <i>in vitro</i> , and its toxicity is mediated by p38. Cutaneous and Ocular Toxicology, 2010, 29, 122-129. | 1.3 | 35 |
| 15 | Effects of Fucoidans from Five Different Brown Algae on Oxidative Stress and VEGF Interference in Ocular Cells. Marine Drugs, 2019, 17, 258. | 4.6 | 35 |
| 16 | Intracellular pathways following uptake of bevacizumab in RPE cells. Experimental Eye Research, 2015, 131, 29-41. | 2.6 | 33 |
| 17 | Fucoidan as a Potential Therapeutic for Major Blinding Diseases—A Hypothesis. Marine Drugs, 2016, 14, 31. | 4.6 | 33 |
| 18 | Release of Different Cell Mediators During Retinal Pigment Epithelium Regeneration Following Selective Retina Therapy. , 2018, 59, 1323. | | 33 |

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|----|--|-----|-----------|
| 19 | Oxidative Stress Induces Biphasic ERK1/2 Activation in the RPE with Distinct Effects on Cell Survival at Early and Late Activation. <i>Current Eye Research</i> , 2015, 40, 853-857. | 1.5 | 30 |
| 20 | Compromised Barrier Function in Human Induced Pluripotent Stem-Cell-Derived Retinal Pigment Epithelial Cells from Type 2 Diabetic Patients. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3773. | 4.1 | 30 |
| 21 | Change of Morphological and Functional Characteristics of Retinal Pigment Epithelium Cells during Cultivation of Retinal Pigment Epithelium-Choroid Perfusion Tissue Culture. <i>Ophthalmic Research</i> , 2010, 43, 122-133. | 1.9 | 29 |
| 22 | Thermal Stimulation of the Retina Reduces Bruch's Membrane Thickness in Age Related Macular Degeneration Mouse Models. <i>Translational Vision Science and Technology</i> , 2018, 7, 2. | 2.2 | 29 |
| 23 | Basal and apical regulation of VEGF-A and placenta growth factor in the RPE/choroid and primary RPE. <i>Molecular Vision</i> , 2015, 21, 736-48. | 1.1 | 29 |
| 24 | Comparison of the Effects of Fucoidans on the Cell Viability of Tumor and Non-Tumor Cell Lines. <i>Marine Drugs</i> , 2019, 17, 441. | 4.6 | 28 |
| 25 | Compatibility of recombinant tissue plasminogen activator (rtPA) and aflibercept or ranibizumab coapplied for neovascular age-related macular degeneration with submacular haemorrhage. <i>British Journal of Ophthalmology</i> , 2015, 99, 864-869. | 3.9 | 25 |
| 26 | The role of Fc-receptors in the uptake and transport of therapeutic antibodies in the retinal pigment epithelium. <i>Experimental Eye Research</i> , 2016, 145, 187-205. | 2.6 | 25 |
| 27 | Fucoidan Does Not Exert Anti-Tumorigenic Effects on Uveal Melanoma Cell Lines. <i>Marine Drugs</i> , 2017, 15, 193. | 4.6 | 25 |
| 28 | Effects of Cytokine Activation and Oxidative Stress on the Function of the Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells. , 2015, 56, 6265. | | 22 |
| 29 | Retinal pigment epithelium cells alter the pro-inflammatory response of retinal microglia to TLR β stimulation. <i>Acta Ophthalmologica</i> , 2014, 92, e621-9. | 1.1 | 21 |
| 30 | Effects of Sulfated Fucans from <i>Laminaria hyperborea</i> Regarding VEGF Secretion, Cell Viability, and Oxidative Stress and Correlation with Molecular Weight. <i>Marine Drugs</i> , 2019, 17, 548. | 4.6 | 21 |
| 31 | Effects of a Newly Developed Enzyme-Assisted Extraction Method on the Biological Activities of Fucoidans in Ocular Cells. <i>Marine Drugs</i> , 2020, 18, 282. | 4.6 | 21 |
| 32 | Hyperthermia-induced upregulation of vascular endothelial growth factor in retinal pigment epithelial cells is regulated by mitogen-activated protein kinases. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2014, 252, 1737-1745. | 1.9 | 20 |
| 33 | Pre-Analytical Parameters Affecting Vascular Endothelial Growth Factor Measurement in Plasma: Identifying Confounders. <i>PLoS ONE</i> , 2016, 11, e0145375. | 2.5 | 20 |
| 34 | Intravitreal injection of anti-Interleukin (IL)-6 antibody attenuates experimental autoimmune uveitis in mice. <i>Cytokine</i> , 2017, 96, 8-15. | 3.2 | 19 |
| 35 | Effect of long-term inflammation on viability and function of RPE cells. <i>Experimental Eye Research</i> , 2020, 200, 108214. | 2.6 | 19 |
| 36 | Quantifying FITC-Labeled Latex Beads Opsonized with Photoreceptor Outer Segment Fragments: An Easy and Inexpensive Method of Investigating Phagocytosis in Retinal Pigment Epithelium Cells. <i>Ophthalmic Research</i> , 2011, 46, 88-91. | 1.9 | 18 |

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|----|--|-----|-----------|
| 37 | <scp>A</scp>lpha synuclein and crystallin expression in human lens in <scp>P</scp>arkinson's disease. <i>Movement Disorders</i> , 2016, 31, 600-601. | 3.9 | 18 |
| 38 | Effects of Crude <i>Fucus distichus</i> Subspecies <i>evanescens</i> Fucoïdan Extract on Retinal Pigment Epithelium Cellsâ€•Implications for Use in Age-Related Macular Degeneration. <i>Marine Drugs</i> , 2019, 17, 538. | 4.6 | 18 |
| 39 | Selective Retina Therapy Reduces Bruch's Membrane Thickness and Retinal Pigment Epithelium Pathology in Age-Related Macular Degeneration Mouse Models. <i>Translational Vision Science and Technology</i> , 2019, 8, 11. | 2.2 | 17 |
| 40 | SAFETY TESTING OF INDOCYANINE GREEN WITH DIFFERENT SURGICAL LIGHT SOURCES AND THE PROTECTIVE EFFECT OF OPTICAL FILTERS. <i>Retina</i> , 2010, 30, 1685-1691. | 1.7 | 16 |
| 41 | Evaluation of the Effects of Fucoïdians from <i>Fucus</i> Species and <i>Laminaria hyperborea</i> against Oxidative Stress and Iron-Dependent Cell Death. <i>Marine Drugs</i> , 2021, 19, 557. | 4.6 | 16 |
| 42 | Fucoïdians as Potential Therapeutics for Age-Related Macular Degenerationâ€•Current Evidence from In Vitro Research. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9272. | 4.1 | 15 |
| 43 | Retinal Pigment Epithelium Expressed Toll-like Receptors and Their Potential Role in Age-Related Macular Degeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8387. | 4.1 | 14 |
| 44 | Interaction of inflammatorily activated retinal pigment epithelium with retinal microglia and neuronal cells. <i>Experimental Eye Research</i> , 2020, 199, 108167. | 2.6 | 13 |
| 45 | The retinal pigment epithelium (RPE) induces FasL and reduces iNOS and Cox2 in primary monocytes. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2014, 252, 1747-1754. | 1.9 | 12 |
| 46 | Long-term treatment with anti-VEGF does not induce cell aging in primary retinal pigment epithelium. <i>Experimental Eye Research</i> , 2018, 171, 1-11. | 2.6 | 12 |
| 47 | The Influence of Melatonin and Light on VEGF Secretion in Primary RPE Cells. <i>Biomolecules</i> , 2021, 11, 114. | 4.0 | 12 |
| 48 | <scp>R</scp>eduction of <scp>GAPDH</scp> in lenses of <scp>P</scp>arkinson's disease patients: <scp>A</scp> possible new biomarker. <i>Movement Disorders</i> , 2017, 32, 459-462. | 3.9 | 10 |
| 49 | Basolateral activation with TLR agonists induces polarized cytokine release and reduces barrier function in RPE in vitro. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2021, 259, 413-424. | 1.9 | 10 |
| 50 | Ocular Trauma Score as prognostic value in traumatic ocular injuries due to rotating wire brushes. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2017, 255, 1037-1042. | 1.9 | 9 |
| 51 | Emulsified silicone oil is taken up by and induces pro-inflammatory response in primary retinal microglia. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2020, 258, 1965-1974. | 1.9 | 8 |
| 52 | The Antiproliferative Effect of Bevacizumab on Human Tenon Fibroblasts Is Not Mediated by Vascular Endothelial Growth Factor Inhibition. , 2016, 57, 4970. | | 7 |
| 53 | CRB1rd8 mutation influences the age-related macular degeneration phenotype of NRF2 knockout mice and favors choroidal neovascularization. <i>Advances in Medical Sciences</i> , 2020, 65, 71-77. | 2.1 | 7 |
| 54 | Isolation of porcine monocyte population: a simple and efficient method. <i>Veterinary Research Communications</i> , 2013, 37, 239-241. | 1.6 | 6 |

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|----|--|-----|-----------|
| 55 | Porcine RPE/Choroidal Explant Cultures. <i>Methods in Molecular Biology</i> , 2019, 1834, 109-118. | 0.9 | 6 |
| 56 | Evaluation of a Brown Seaweed Extract from <i>Dictyosiphon foeniculaceus</i> as a Potential Therapeutic Agent for the Treatment of Glioblastoma and Uveal Melanoma. <i>Marine Drugs</i> , 2020, 18, 625. | 4.6 | 4 |
| 57 | Differences in uptake and intracellular fate between Bevacizumab and Aflibercept after repetitive long-term treatment in the RPE. <i>Ophthalmic Research</i> , 2020, 64, 369-388. | 1.9 | 3 |
| 58 | Response of Retinal Pigment Epithelium (RPE)â€Choroid Explants to Thermal Stimulation Therapy of the RPE (TSR). <i>Lasers in Surgery and Medicine</i> , 2021, 53, 359-369. | 2.1 | 3 |
| 59 | Effect of Long-term Anti-VEGF Treatment on Viability and Function of RPE Cells. <i>Current Eye Research</i> , 2021, , 1-8. | 1.5 | 3 |
| 60 | Open globe injuries by rotating wire brushes. <i>Acta Ophthalmologica</i> , 2013, 91, e653-e654. | 1.1 | 2 |
| 61 | Modulation of inflammatory processes by thermal stimulating and RPE regenerative laser therapies in age related macular degeneration mouse models. <i>Cytokine: X</i> , 2020, 2, 100031. | 1.4 | 2 |
| 62 | Pro-inflammatory activation changes intracellular transport of bevacizumab in the retinal pigment epithelium in vitro. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2022, 260, 857-872. | 1.9 | 2 |
| 63 | Selective retina therapy and thermal stimulation of the retina: different regenerative properties - implications for AMD therapy. <i>BMC Ophthalmology</i> , 2021, 21, 412. | 1.4 | 2 |
| 64 | Influence of carrier materials and coatings on retinal pigment epithelium cultivation and functions. <i>Experimental Eye Research</i> , 2022, 219, 109063. | 2.6 | 1 |