

# Thomas G Cotter

## List of Publications by Citations

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91  
papers

6,238  
citations

35  
h-index

78  
g-index

93  
ext. papers

6,855  
ext. citations

5.1  
avg, IF

6.44  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 91 | ROS signalling in the biology of cancer. <i>Seminars in Cell and Developmental Biology</i> , <b>2018</b> , 80, 50-64   | 7.5  | 703       |
| 90 | Apoptosis and cancer: the genesis of a research field. <i>Nature Reviews Cancer</i> , <b>2009</b> , 9, 501-7   | 31.3 | 598       |
| 89 | Bax-induced caspase activation and apoptosis via cytochrome c release from mitochondria is inhibitable by Bcl-xL. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 2225-33                                  | 5.4  | 561       |
| 88 | Regulation and measurement of oxidative stress in apoptosis. <i>Journal of Immunological Methods</i> , <b>2002</b> , 265, 49-72  | 2.5  | 450       |
| 87 | Hydrogen peroxide as a cell-survival signaling molecule. <i>Antioxidants and Redox Signaling</i> , <b>2009</b> , 11, 2658-71   | 3.7  | 238       |
| 86 | Redox regulation of protein kinases. <i>FEBS Journal</i> , <b>2013</b> , 280, 1944-65  | 5.7  | 180       |
| 85 | Role of peroxide and superoxide anion during tumour cell apoptosis. <i>FEBS Letters</i> , <b>1997</b> , 404, 27-33   | 3.8  | 178       |
| 84 | Control of mitochondrial integrity by Bcl-2 family members and caspase-independent cell death. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2004</b> , 1644, 133-47                             | 4.9  | 175       |
| 83 | Apoptosis or necrosis: intracellular levels of glutathione influence mode of cell death. <i>Biochemical Pharmacology</i> , <b>1994</b> , 48, 675-81  | 6    | 172       |
| 82 | Anti-apoptotic oncogenes prevent caspase-dependent and independent commitment for cell death. <i>Cell Death and Differentiation</i> , <b>1998</b> , 5, 298-306   | 12.7 | 160       |
| 81 | Inhibition of apoptosis by antioxidants in the human HL-60 leukemia cell line. <i>Biochemical Pharmacology</i> , <b>1995</b> , 50, 1021-9  | 6    | 160       |
| 80 | Live and let die: regulatory mechanisms in Fas-mediated apoptosis. <i>Cellular Signalling</i> , <b>2003</b> , 15, 983-92   | 4.9  | 156       |
| 79 | Caspase-independent photoreceptor apoptosis in mouse models of retinal degeneration. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 5723-31  | 6.6  | 139       |
| 78 | Light-induced photoreceptor apoptosis in vivo requires neuronal nitric-oxide synthase and guanylate cyclase activity and is caspase-3-independent. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 23000-8 | 5.4  | 123       |
| 77 | Antioxidant-mediated inhibition of the heat shock response leads to apoptosis. <i>FEBS Letters</i> , <b>1999</b> , 445, 98-102   | 3.8  | 110       |
| 76 | Cell shrinkage and apoptosis: a role for potassium and sodium ion efflux. <i>Cell Death and Differentiation</i> , <b>1997</b> , 4, 756-70  | 12.7 | 103       |
| 75 | Ceramide is the key mediator of oxidative stress-induced apoptosis in retinal photoreceptor cells. <i>Journal of Neurochemistry</i> , <b>2006</b> , 98, 1432-44  | 6    | 93        |

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|----|---|------|----|
| 74 | Oxidative stress-induced apoptosis in retinal photoreceptor cells is mediated by calpains and caspases and blocked by the oxygen radical scavenger CR-6. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 39268-78   | 5.4  | 93 |
| 73 | Reactive oxygen species as mediators of photoreceptor apoptosis in vitro. <i>Experimental Cell Research</i> , <b>1999</b> , 248, 520-30   | 4.2  | 91 |
| 72 | Chemotherapeutic drug-induced apoptosis in human leukaemic cells is independent of the Fas (APO-1/CD95) receptor/ligand system. <i>British Journal of Haematology</i> , <b>1998</b> , 101, 539-47   | 4.5  | 64 |
| 71 | ROS signalling, NADPH oxidases and cancer. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 934-8  | 5.1  | 57 |
| 70 | Molecular abnormalities in chronic myeloid leukemia: deregulation of cell growth and apoptosis. <i>Oncologist</i> , <b>2000</b> , 5, 405-15   | 5.7  | 57 |
| 69 | NADPH oxidase-generated hydrogen peroxide induces DNA damage in mutant FLT3-expressing leukemia cells. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 9348-61  | 5.4  | 50 |
| 68 | Enhancing survival of photoreceptor cells in vivo using the synthetic progestin Norgestrel. <i>Journal of Neurochemistry</i> , <b>2011</b> , 118, 915-27  | 6    | 49 |
| 67 | Stress-induced activation of Nox contributes to cell survival signalling via production of hydrogen peroxide. <i>Journal of Neurochemistry</i> , <b>2009</b> , 109, 1544-54   | 6    | 49 |
| 66 | New Insight into the Role of Reactive Oxygen Species (ROS) in Cellular Signal-Transduction Processes. <i>International Review of Cell and Molecular Biology</i> , <b>2015</b> , 319, 221-54   | 6    | 48 |
| 65 | Decreased expression of pro-apoptotic Bcl-2 family members during retinal development and differential sensitivity to cell death. <i>Developmental Biology</i> , <b>2006</b> , 291, 154-69  | 3.1  | 46 |
| 64 | H <sub>2</sub> O <sub>2</sub> production downstream of FLT3 is mediated by p22phox in the endoplasmic reticulum and is required for STAT5 signalling. <i>PLoS ONE</i> , <b>2012</b> , 7, e34050   | 3.7  | 46 |
| 63 | Key apoptosis regulating proteins are down-regulated during postnatal tissue development. <i>International Journal of Developmental Biology</i> , <b>2007</b> , 51, 415-23  | 1.9  | 45 |
| 62 | Use of flow cytometry techniques in studying mechanisms of apoptosis in leukemic cells. <i>Cytometry</i> , <b>1997</b> , 29, 97-105   |      | 41 |
| 61 | Basic fibroblast growth factor-induced protection from light damage in the mouse retina in vivo. <i>Journal of Neurochemistry</i> , <b>2008</b> , 105, 524-36   | 6    | 41 |
| 60 | Antibody-Targeted Cyclodextrin-Based Nanoparticles for siRNA Delivery in the Treatment of Acute Myeloid Leukemia: Physicochemical Characteristics, in Vitro Mechanistic Studies, and ex Vivo Patient Derived Therapeutic Efficacy. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 940-952 | 5.6  | 40 |
| 59 | Rod and cone photoreceptor cells produce ROS in response to stress in a live retinal explant system. <i>Molecular Vision</i> , <b>2010</b> , 16, 283-93   | 2.3  | 39 |
| 58 | Downregulation of Bcr-Abl in K562 cells restores susceptibility to apoptosis: characterization of the apoptotic death. <i>Cell Death and Differentiation</i> , <b>1997</b> , 4, 95-104  | 12.7 | 38 |
| 57 | Functional aspects of apoptosis in hematopoiesis and consequences of failure. <i>Advances in Cancer Research</i> , <b>1997</b> , 71, 121-64   | 5.9  | 36 |

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|----|---|------|----|
| 56 | NOX-driven ROS formation in cell transformation of FLT3-ITD-positive AML. <i>Experimental Hematology</i> , <b>2016</b> , 44, 1113-1122  | 3.1  | 35 |
| 55 | Microglial-induced Müller cell gliosis is attenuated by progesterone in a mouse model of retinitis pigmentosa. <i>Glia</i> , <b>2018</b> , 66, 295-310  | 9    | 34 |
| 54 | Progesterone Attenuates Microglial-Driven Retinal Degeneration and Stimulates Protective Fractalkine-CX3CR1 Signaling. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165197   | 3.7  | 34 |
| 53 | Histone deacetylase activity in conjunction with E2F-1 and p53 regulates Apaf-1 expression in 661W cells and the retina. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 887-905                                  | 4.4  | 33 |
| 52 | bFGF promotes photoreceptor cell survival in vitro by PKA-mediated inactivation of glycogen synthase kinase 3beta and CREB-dependent Bcl-2 up-regulation. <i>Journal of Neurochemistry</i> , <b>2007</b> , 103, 860-70        | 6    | 33 |
| 51 | BCR-ABL: an anti-apoptosis gene in chronic myelogenous leukemia. <i>Leukemia and Lymphoma</i> , <b>1995</b> , 18, 231-6   | 1.9  | 33 |
| 50 | Reactive oxygen species regulate prosurvival ERK1/2 signaling and bFGF expression in gliosis within the retina <b>2012</b> , 53, 6645-54  |      | 31 |
| 49 | Rosiglitazone acts as a neuroprotectant in retinal cells via up-regulation of sestrin-1 and SOD-2. <i>Journal of Neurochemistry</i> , <b>2009</b> , 109, 631-43   | 6    | 31 |
| 48 | Progesterone receptor signalling in retinal photoreceptor neuroprotection. <i>Journal of Neurochemistry</i> , <b>2016</b> , 136, 63-77  | 6    | 31 |
| 47 | Age-dependent susceptibility of the retinal ganglion cell layer to cell death. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 807-14   |      | 30 |
| 46 | Bcr-Abl upregulates cytosolic p21WAF-1/CIP-1 by a phosphoinositide-3-kinase (PI3K)-independent pathway. <i>British Journal of Haematology</i> , <b>2003</b> , 123, 34-44  | 4.5  | 30 |
| 45 | ROS and protein oxidation in early stages of cytotoxic drug induced apoptosis. <i>Free Radical Research</i> , <b>2006</b> , 40, 1124-37   | 4    | 28 |
| 44 | Cell death in the myeloid lineage. <i>Immunological Reviews</i> , <b>1994</b> , 142, 93-112   | 11.3 | 28 |
| 43 | Histone deacetylase activity regulates apaf-1 and caspase 3 expression in the developing mouse retina. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 2765-72                                      |      | 27 |
| 42 | Comparative structural and functional analysis of photoreceptor neurons of Rho-/- mice reveal increased survival on C57BL/6J in comparison to 129Sv genetic background. <i>Visual Neuroscience</i> , <b>2001</b> , 18, 437-43 | 1.7  | 27 |
| 41 | Subcellular localization of the FLT3-ITD oncogene plays a significant role in the production of NOX- and p22-derived reactive oxygen species in acute myeloid leukemia. <i>Leukemia Research</i> , <b>2017</b> , 52, 34-42    | 2.7  | 26 |
| 40 | Bim expression indicates the pathway to retinal cell death in development and degeneration. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 10887-94   | 6.6  | 26 |
| 39 | The ability to cleave 28S ribosomal RNA during apoptosis is a cell-type dependent trait unrelated to DNA fragmentation. <i>Cell Death and Differentiation</i> , <b>1997</b> , 4, 289-93                                       | 12.7 | 24 |

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|----|---|------|----|
| 38 | Molecular Events and Mechanisms of Apoptosis. <i>Sepsis</i> , <b>1998</b> , 2, 9-19   |      | 24 |
| 37 | Imatinib and Nilotinib inhibit Bcr-Abl-induced ROS through targeted degradation of the NADPH oxidase subunit p22phox. <i>Leukemia Research</i> , <b>2013</b> , 37, 183-9  | 2.7  | 23 |
| 36 | Alterations to retinal architecture prior to photoreceptor loss in a mouse model of retinitis pigmentosa. <i>International Journal of Developmental Biology</i> , <b>2016</b> , 60, 127-39  | 1.9  | 22 |
| 35 | The synthetic progestin norgestrel modulates Nrf2 signaling and acts as an antioxidant in a model of retinal degeneration. <i>Redox Biology</i> , <b>2016</b> , 10, 128-139   | 11.3 | 22 |
| 34 | Preventing retinal apoptosis--is there a common therapeutic theme?. <i>Experimental Cell Research</i> , <b>2012</b> , 318, 1278-84  | 4.2  | 21 |
| 33 | Redox-regulated growth factor survival signaling. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 19, 1815-27   | 8.4  | 21 |
| 32 | Inhibition of caspase activity delays apoptosis in a transfected NS/O myeloma cell line. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 165-176  | 4.9  | 21 |
| 31 | Analysis of apoptotic and survival mediators in the early post-natal and mature retina. <i>Experimental Eye Research</i> , <b>2006</b> , 83, 1482-92  | 3.7  | 20 |
| 30 | Fractalkine-CX3CR1 signaling is critical for progesterone-mediated neuroprotection in the retina. <i>Scientific Reports</i> , <b>2017</b> , 7, 43067  | 4.9  | 19 |
| 29 | bFGF-mediated redox activation of the PI3K/Akt pathway in retinal photoreceptor cells. <i>European Journal of Neuroscience</i> , <b>2011</b> , 33, 632-41   | 3.5  | 17 |
| 28 | Inhibition of protein-tyrosine phosphatase 1B (PTP1B) mediates ubiquitination and degradation of Bcr-Abl protein. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 32313-23  | 5.4  | 17 |
| 27 | Cell death in brain development and degeneration: control of caspase expression may be key!. <i>Molecular Neurobiology</i> , <b>2008</b> , 37, 1-6  | 6.2  | 17 |
| 26 | 7-formyl-10-methylisoellipticine, a novel ellipticine derivative, induces mitochondrial reactive oxygen species (ROS) and shows anti-leukaemic activity in mice. <i>Investigational New Drugs</i> , <b>2016</b> , 34, 15-23   | 4.3  | 16 |
| 25 | A stress survival response in retinal cells mediated through inhibition of the serine/threonine phosphatase PP2A. <i>European Journal of Neuroscience</i> , <b>2010</b> , 32, 322-34  | 3.5  | 16 |
| 24 | Bcr-Abl regulates osteopontin transcription via Ras, PI-3K, aPKC, Raf-1, and MEK. <i>Journal of Leukocyte Biology</i> , <b>2005</b> , 78, 289-300   | 6.5  | 16 |
| 23 | The synthetic progestin norgestrel acts to increase LIF levels in the rd10 mouse model of retinitis pigmentosa. <i>Molecular Vision</i> , <b>2016</b> , 22, 264-74  | 2.3  | 16 |
| 22 | The synthetic progesterone Norgestrel is neuroprotective in stressed photoreceptor-like cells and retinal explants, mediating its effects via basic fibroblast growth factor, protein kinase A and glycogen synthase kinase 3 signalling. <i>European Journal of Neuroscience</i> , <b>2016</b> , 43, 899-911 | 3.5  | 15 |
| 21 | Pro-survival redox signalling in progesterone-mediated retinal neuroprotection. <i>European Journal of Neuroscience</i> , <b>2017</b> , 46, 1663-1672   | 3.5  | 14 |

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|----|---|-----|----|
| 20 | Differential roles of ERK1/2 and JNK in retinal development and degeneration. <i>Journal of Neurochemistry</i> , <b>2011</b> , 116, 33-42   | 6   | 14 |
| 19 | Age-dependent rat retinal ganglion cell susceptibility to apoptotic stimuli: implications for glaucoma. <i>Clinical and Experimental Ophthalmology</i> , <b>2011</b> , 39, 243-51                         | 2.4 | 13 |
| 18 | Induction of BIM(EL) following growth factor withdrawal is a key event in caspase-dependent apoptosis of 661W photoreceptor cells. <i>European Journal of Neuroscience</i> , <b>2006</b> , 24, 981-90     | 3.5 | 13 |
| 17 | Progesterone analogue protects stressed photoreceptors via bFGF-mediated calcium influx. <i>European Journal of Neuroscience</i> , <b>2016</b> , 44, 3067-3079  | 3.5 | 12 |
| 16 | Inhibition of PI3-kinase sensitises HL60 human leukaemia cells to both chemotherapeutic drug- and Fas-induced apoptosis by a JNK independent pathway. <i>Leukemia Research</i> , <b>2001</b> , 25, 801-11 | 2.7 | 12 |
| 15 | DUOX enzyme activity promotes AKT signalling in prostate cancer cells. <i>Anticancer Research</i> , <b>2012</b> , 32, 5175-81   | 2.3 | 12 |
| 14 | Norgestrel, a Progesterone Analogue, Promotes Significant Long-Term Neuroprotection of Cone Photoreceptors in a Mouse Model of Retinal Disease <b>2019</b> , 60, 3221-3235                                |     | 11 |
| 13 | A novel free radical scavenger rescues retinal cells in vivo. <i>Experimental Eye Research</i> , <b>2011</b> , 93, 65-74  | 3.7 | 10 |
| 12 | FLT3-driven redox-modulation of Ezrin regulates leukaemic cell migration. <i>Free Radical Research</i> , <b>2013</b> , 47, 20-34  | 4   | 6  |
| 11 | Nuclear membrane-localised NOX4D generates pro-survival ROS in FLT3-ITD-expressing AML. <i>Oncotarget</i> , <b>2017</b> , 8, 105440-105457  | 3.3 | 5  |
| 10 | Leukocyte Bim deficiency does not impact atherogenesis in ldlr mice, despite a pronounced induction of autoimmune inflammation. <i>Scientific Reports</i> , <b>2017</b> , 7, 3086                         | 4.9 | 3  |
| 9  | Rapid detection of rod photoreceptor apoptosis by flow cytometry. <i>Cytometry</i> , <b>1998</b> , 33, 89-92  |     | 3  |
| 8  | Rod Photoreceptor Neuroprotection in Dark-Reared Pde6brd10 Mice <b>2020</b> , 61, 14  |     | 3  |
| 7  | Light-induced Photoreceptor Apoptosis in vivo is Caspase Independent and Mediated by Nitric Oxide. <i>Scientific World Journal, The</i> , <b>2001</b> , 1, 52   | 2.2 | 2  |
| 6  | Clinical Implications of the Mechanisms Driving Breast Cancer Local Recurrence. <i>Annals of Surgical Oncology</i> , <b>2009</b> , 16, 785-786  | 3.1 | 1  |
| 5  | Oxidative Stress Biomarkers and ROS Molecular Probes. <i>ACS Symposium Series</i> , <b>2015</b> , 353-374   | 0.4 | 0  |
| 4  | A PLASMA FACTOR PROMOTES ERYTHROCYTE SURVIVAL IN CULTURE. <i>Biochemical Society Transactions</i> , <b>2000</b> , 28, A29-A29   | 5.1 |    |
| 3  | Apoptosis, the dermatologist, the venereologist and the patient. <i>Journal of the European Academy of Dermatology and Venereology</i> , <b>1995</b> , 5, 1-8   | 4.6 |    |

- 2 A Novel Bcr-Abl Mediated Pro-Survival Pathway: Reduction of Releasable Calcium Levels in the Endoplasmic Reticulum Inhibits Calcium Dependent Apoptotic Signaling.. *Blood*, **2005**, 106, 2621-2621 2.2
- 1 Cell Death Analysis in Retinal Cultures. *Methods in Molecular Biology*, **2019**, 1834, 143-152 1.4