

Christopher A Makaroff

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Revised and Improved Procedure for Immunolocalization of Male Meiotic Chromosomal Proteins and Spindle in Plants without the Use of Enzymes. <i>Plants</i> , 2018, 7, 93. | 3.5 | 0 |
| 2 | In Favor of Establishment: Regulation of Chromatid Cohesion in Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 846. | 3.6 | 30 |
| 3 | The PHD Finger Protein MMD1/DUET Ensures the Progression of Male Meiotic Chromosome Condensation and Directly Regulates the Expression of the Condensin Gene <i><i>CAP-D3</i></i> . <i>Plant Cell</i> , 2016, 28, 1894-1909. | 6.6 | 46 |
| 4 | The Opposing Actions of Arabidopsis CHROMOSOME TRANSMISSION FIDELITY7 and WINGS APART-LIKE1 and 2 Differ in Mitotic and Meiotic Cells. <i>Plant Cell</i> , 2016, 28, 521-536. | 6.6 | 5 |
| 5 | Overexpression of a truncated CTF7 construct leads to pleiotropic defects in reproduction and vegetative growth in Arabidopsis. <i>BMC Plant Biology</i> , 2015, 15, 74. | 3.6 | 3 |
| 6 | Arabidopsis thaliana Glyoxalase 2-1 Is Required during Abiotic Stress but Is Not Essential under Normal Plant Growth. <i>PLoS ONE</i> , 2014, 9, e95971. | 2.5 | 39 |
| 7 | Arabidopsis thaliana WAPL Is Essential for the Prophase Removal of Cohesin during Meiosis. <i>PLoS Genetics</i> , 2014, 10, e1004497. | 3.5 | 47 |
| 8 | Expression of Epitope-Tagged SYN3 Cohesin Proteins Can Disrupt Meiosis in Arabidopsis. <i>Journal of Genetics and Genomics</i> , 2014, 41, 153-164. | 3.9 | 7 |
| 9 | Immunolocalization Protocols for Visualizing Meiotic Proteins in Arabidopsis thaliana: Method 3. <i>Methods in Molecular Biology</i> , 2013, 990, 109-118. | 0.9 | 4 |
| 10 | Arabidopsis CHROMOSOME TRANSMISSION FIDELITY 7 (AtCTF7 / ECO1) is required for DNA repair, mitosis and meiosis. <i>Plant Journal</i> , 2013, 75, 927-940. | 5.7 | 34 |
| 11 | Arabidopsis ETHE1 Encodes a Sulfur Dioxygenase That Is Essential for Embryo and Endosperm Development. <i>Plant Physiology</i> , 2012, 160, 226-236. | 4.8 | 62 |
| 12 | Hunting Down SYN3 in Chloroplasts of Arabidopsis thaliana. <i>Microscopy and Microanalysis</i> , 2012, 18, 92-93. | 0.4 | 0 |
| 13 | The Arabidopsis SYN3 cohesin protein is important for early meiotic events. <i>Plant Journal</i> , 2012, 71, 147-160. | 5.7 | 28 |
| 14 | Plant Cohesins, Common Themes and Unique Roles. <i>Current Protein and Peptide Science</i> , 2011, 12, 93-104. | 1.4 | 13 |
| 15 | The Radially Swollen 4 Separase Mutation of Arabidopsis thaliana Blocks Chromosome Disjunction and Disrupts the Radial Microtubule System in Meiocytes. <i>PLoS ONE</i> , 2011, 6, e19459. | 2.5 | 20 |
| 16 | Plant Cohesins, Common Themes and Unique Roles. <i>Current Protein and Peptide Science</i> , 2011, 999, 1-12. | 1.4 | 0 |
| 17 | The metal ion requirements of Arabidopsis thaliana Glx2-2 for catalytic activity. <i>Journal of Biological Inorganic Chemistry</i> , 2010, 15, 249-258. | 2.6 | 9 |
| 18 | Proper Levels of the Arabidopsis Cohesion Establishment Factor CTF7 Are Essential for Embryo and Megagametophyte, But Not Endosperm, Development. <i>Plant Physiology</i> , 2010, 154, 820-832. | 4.8 | 13 |

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|----|--|-----|-----------|
| 19 | Converting GLX2-1 into an Active Glyoxalase II. <i>Biochemistry</i> , 2010, 49, 8228-8236. | 2.5 | 9 |
| 20 | Arabidopsis Separase Functions beyond the Removal of Sister Chromatid Cohesion during Meiosis. <i>Plant Physiology</i> , 2009, 151, 323-333. | 4.8 | 21 |
| 21 | Human Glyoxalase II Contains an Fe(II)Zn(II) Center but Is Active as a Mononuclear Zn(II) Enzyme. <i>Biochemistry</i> , 2009, 48, 5426-5434. | 2.5 | 24 |
| 22 | Arabidopsis thaliana Mitochondrial Glyoxalase 2-1 Exhibits $\hat{\text{I}}^2$ -Lactamase Activity. <i>Biochemistry</i> , 2009, 48, 8491-8493. | 2.5 | 19 |
| 23 | <i>Arabidopsis thaliana</i> GLX2-1 contains a dinuclear metal binding site, but is not a glyoxalase 2. <i>Biochemical Journal</i> , 2009, 417, 323-330. | 3.7 | 12 |
| 24 | Spectroscopic studies on Arabidopsis ETHE1, a glyoxalase II-like protein. <i>Journal of Inorganic Biochemistry</i> , 2008, 102, 1825-1830. | 3.5 | 16 |
| 25 | SWI1 Is Required for Meiotic Chromosome Remodeling Events. <i>Molecular Plant</i> , 2008, 1, 620-633. | 8.3 | 38 |
| 26 | Methyl recycling activities are co-ordinately regulated during plant development. <i>Journal of Experimental Botany</i> , 2007, 58, 1083-1098. | 4.8 | 44 |
| 27 | Side Chain and Backbone Dynamics of Phospholamban in Phospholipid Bilayers Utilizing ^{15}N Solid-State NMR Spectroscopy. <i>Biochemistry</i> , 2007, 46, 11695-11706. | 2.5 | 20 |
| 28 | The Arabidopsis cohesin protein SYN3 localizes to the nucleolus and is essential for gametogenesis. <i>Plant Journal</i> , 2007, 50, 1020-1034. | 5.7 | 33 |
| 29 | Structure of an ETHE1-like protein from <i>Arabidopsis thaliana</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 964-970. | 2.5 | 40 |
| 30 | ASK1, a SKP1 homolog, is required for nuclear reorganization, presynaptic homolog juxtaposition and the proper distribution of cohesin during meiosis in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2006, 62, 99-110. | 3.9 | 43 |
| 31 | The <i>Arabidopsis</i> SKP1 homolog ASK1 controls meiotic chromosome remodeling and release of chromatin from the nuclear membrane and nucleolus. <i>Journal of Cell Science</i> , 2006, 119, 3754-3763. | 2.0 | 49 |
| 32 | <i>Arabidopsis</i> Separase AESP Is Essential for Embryo Development and the Release of Cohesin during Meiosis. <i>Plant Cell</i> , 2006, 18, 1213-1225. | 6.6 | 69 |
| 33 | The SYN3 mutation affects megagametogenesis and seed development in <i>Arabidopsis thaliana</i> . <i>FASEB Journal</i> , 2006, 20, A894. | 0.5 | 0 |
| 34 | The dsy10 mutation affects sister chromatid cohesion and synapsis during meiosis in <i>A. thaliana</i> . <i>FASEB Journal</i> , 2006, 20, A894. | 0.5 | 0 |
| 35 | Structural Studies on a Mitochondrial Glyoxalase II. <i>Journal of Biological Chemistry</i> , 2005, 280, 40668-40675. | 3.4 | 79 |
| 36 | The AtRAD51C Gene Is Required for Normal Meiotic Chromosome Synapsis and Double-Stranded Break Repair in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2005, 138, 965-976. | 4.8 | 90 |

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|----|--|-----|-----------|
| 37 | Characterization of Arabidopsis thaliana SMC1 and SMC3: evidence that AtSMC3 may function beyond chromosome cohesion. <i>Journal of Cell Science</i> , 2005, 118, 3037-3048. | 2.0 | 115 |
| 38 | The binding of iron and zinc to glyoxalase II occurs exclusively as di-metal centers and is unique within the metallo- β -lactamase family. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 429-438. | 2.6 | 46 |
| 39 | Characterization of an unusual Ds transposable element in Arabidopsis thaliana: Insertion of an abortive circular transposition intermediate. <i>Plant Molecular Biology</i> , 2004, 55, 905-917. | 3.9 | 9 |
| 40 | Characterization of an unusual Ds transposable element in Arabidopsis thaliana: insertion of an abortive circular transposition intermediate. <i>Plant Molecular Biology</i> , 2004, 55, 905-917. | 3.9 | 5 |
| 41 | The Arabidopsis SYN1 cohesin protein is required for sister chromatid arm cohesion and homologous chromosome pairing. <i>Journal of Cell Science</i> , 2003, 116, 2999-3007. | 2.0 | 220 |
| 42 | Flexible Metal Binding of the Metallo- β -lactamase Domain: Glyoxalase II Incorporates Iron, Manganese, and Zinc in Vivo. <i>Biochemistry</i> , 2003, 42, 11777-11786. | 2.5 | 82 |
| 43 | Explaining the inhibition of glyoxalase II by 9-fluorenylmethoxycarbonyl-protected glutathione derivatives. <i>Archives of Biochemistry and Biophysics</i> , 2003, 414, 271-278. | 3.0 | 6 |
| 44 | The Arabidopsis MALE MEIOCYTE DEATH1 Gene Encodes a PHD-Finger Protein That Is Required for Male Meiosis. <i>Plant Cell</i> , 2003, 15, 1281-1295. | 6.6 | 168 |
| 45 | The meiotic protein SWI1 is required for axial element formation and recombination initiation in Arabidopsis. <i>Development (Cambridge)</i> , 2003, 130, 3309-3318. | 2.5 | 130 |
| 46 | The Arabidopsis MALE MEIOCYTE DEATH1 gene encodes a PHD-finger protein that is required for male meiosis. <i>Plant Cell</i> , 2003, 15, 1281-95. | 6.6 | 73 |
| 47 | Cloning and characterization of two Arabidopsis genes that belong to the RAD21/REC8 family of chromosome cohesin proteins. <i>Gene</i> , 2001, 271, 99-108. | 2.2 | 60 |
| 48 | The dsy10 Mutation of Arabidopsis results in desynapsis and a general breakdown in meiosis. <i>Sexual Plant Reproduction</i> , 2001, 14, 63-67. | 2.2 | 21 |
| 49 | DEX1, a Novel Plant Protein, Is Required for Exine Pattern Formation during Pollen Development in Arabidopsis. <i>Plant Physiology</i> , 2001, 127, 1739-1749. | 4.8 | 185 |
| 50 | Arabidopsis Glyoxalase II Contains a Zinc/Iron Binuclear Metal Center That Is Essential for Substrate Binding and Catalysis. <i>Journal of Biological Chemistry</i> , 2001, 276, 4788-4795. | 3.4 | 85 |
| 51 | Isolation and Characterization of SYN1, a RAD21-Like Gene Essential for Meiosis in Arabidopsis. <i>Plant Cell</i> , 1999, 11, 417. | 6.6 | 3 |
| 52 | Integrin-Like Proteins are Localized to Plasma Membrane Fractions, not Plastids, in Arabidopsis. <i>Plant and Cell Physiology</i> , 1999, 40, 173-183. | 3.1 | 34 |
| 53 | Isolation and Characterization of SYN1, a RAD21-like Gene Essential for Meiosis in Arabidopsis. <i>Plant Cell</i> , 1999, 11, 417-430. | 6.6 | 206 |
| 54 | The radish (<i>Raphanus sativus</i> L.) mitochondrial cox2 gene contains an ACG at the predicted translation initiation site. <i>Current Genetics</i> , 1998, 34, 79-87. | 1.7 | 16 |

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|----|--|-----|-----------|
| 55 | Analysis of the four <i>cox2</i> genes found in turnip (<i>Brassica campestris</i> , Brassicaceae) mitochondria. <i>American Journal of Botany</i> , 1998, 85, 153-161. | 1.7 | 13 |
| 56 | Glyoxalase II from <i>A. thaliana</i> requires Zn(II) for catalytic activity. <i>FEBS Letters</i> , 1997, 418, 351-354. | 2.8 | 57 |
| 57 | Immunolocalization of integrin-like proteins in <i>Arabidopsis</i> and <i>Chara</i> . <i>Physiologia Plantarum</i> , 1997, 99, 7-14. | 5.2 | 51 |
| 58 | Molecular characterization of glyoxalase II from <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 1997, 35, 471-481. | 3.9 | 74 |
| 59 | A comparative ultrastructural analysis of exine pattern development in wild-type <i>Arabidopsis</i> and a mutant defective in pattern formation. <i>Protoplasma</i> , 1997, 198, 53-65. | 2.1 | 107 |
| 60 | A defect in synapsis causes male sterility in a <i>DNA</i> -tagged <i>Arabidopsis thaliana</i> mutant. <i>Plant Journal</i> , 1997, 11, 659-669. | 5.7 | 85 |
| 61 | Immunolocalization of integrin-like proteins in <i>Arabidopsis</i> and <i>Chara</i> . <i>Physiologia Plantarum</i> , 1997, 99, 7-14. | 5.2 | 4 |
| 62 | Characterization of the radish mitochondrial <i>nad3/rps12</i> locus: analysis of recombination repeats and RNA editing. <i>Current Genetics</i> , 1996, 29, 564-571. | 1.7 | 8 |
| 63 | Characterization of three male-sterile mutants of <i>Arabidopsis thaliana</i> exhibiting alterations in meiosis. <i>Sexual Plant Reproduction</i> , 1996, 9, 1. | 2.2 | 60 |
| 64 | Characterization of the radish mitochondrial <i>nad3/rps12</i> locus: analysis of recombination repeats and RNA editing. <i>Current Genetics</i> , 1996, 29, 564-571. | 1.7 | 0 |
| 65 | Ultrastructure of microsporogenesis and microgametogenesis in <i>Arabidopsis thaliana</i> (L.) Heynh. ecotype <i>Wassilewskija</i> (Brassicaceae). <i>Protoplasma</i> , 1995, 185, 7-21. | 2.1 | 250 |
| 66 | Cytoplasmic Male Sterility in Brassica species. <i>Advances in Cellular and Molecular Biology of Plants</i> , 1995, , 515-555. | 0.2 | 9 |
| 67 | Intron loss from the NADH dehydrogenase subunit 4 gene of lettuce mitochondrial DNA: evidence for homologous recombination of a cDNA intermediate. <i>Molecular Genetics and Genomics</i> , 1994, 243, 97-105. | 2.4 | 54 |
| 68 | Organ-specific reduction in the abundance of a mitochondrial protein accompanies fertility restoration in cytoplasmic male-sterile radish. <i>Plant Molecular Biology</i> , 1994, 26, 935-946. | 3.9 | 78 |
| 69 | Subunit 6 of the Fo-ATP synthase complex from cytoplasmic male-sterile radish: RNA editing and NH2-terminal protein sequencing. <i>Plant Molecular Biology</i> , 1994, 24, 129-141. | 3.9 | 28 |
| 70 | Characterization of the radish mitochondrial <i>orfB</i> locus: possible relationship with male sterility in Ogura radish. <i>Current Genetics</i> , 1993, 24, 156-163. | 1.7 | 104 |
| 71 | Variable intron content of the NADH dehydrogenase subunit 4 gene of plant mitochondria. <i>Current Genetics</i> , 1992, 21, 423-430. | 1.7 | 34 |
| 72 | Novel mitochondrial genomes in <i>Brassica napus</i> somatic hybrids. <i>Current Genetics</i> , 1992, 22, 243-249. | 1.7 | 48 |

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|----|--|------|-----------|
| 73 | Atrazine-resistant cytoplasmic male-sterile-nigra broccoli obtained by protoplast fusion between cytoplasmic male-sterile Brassica oleracea and atrazine-resistant Brassica campestris. Theoretical and Applied Genetics, 1991, 83, 201-208. | 3.6 | 39 |
| 74 | The role of coxI-associated repeated sequences in plant mitochondrial DNA rearrangements and radish cytoplasmic male sterility. Current Genetics, 1991, 19, 183-190. | 1.7 | 47 |
| 75 | Characterization of radish mitochondrial atpA: influence of nuclear background on transcription of atpA-associated sequences and relationship with male sterility. Plant Molecular Biology, 1990, 15, 735-746. | 3.9 | 62 |
| 76 | Extensive mitochondrial specific transcription of the Brassica campestris mitochondrial genome. Nucleic Acids Research, 1987, 15, 5141-5156. | 14.5 | 92 |
| 77 | Alkaline opening of imidazole ring of 7-methylguanosine. 1. Analysis of the resulting pyrimidine derivatives. Chemico-Biological Interactions, 1982, 41, 217-233. | 4.0 | 22 |
| 78 | Alkaline opening of imidazole ring of 7-methylguanosine. 2. Further studies on reaction mechanisms and products. Chemico-Biological Interactions, 1982, 41, 235-249. | 4.0 | 33 |
| 79 | Purification and characterization of Escherichia coli formamidopyrimidine-DNA glycosylase that excises damaged 7-methylguanine from deoxyribonucleic acid. Biochemistry, 1981, 20, 5201-5207. | 2.5 | 78 |