

Carlo C Maley

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

11,219
citations

71102

41
h-index

56724

83
g-index

96
all docs

96
docs citations

96
times ranked

13700
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Clonal evolution in cancer. <i>Nature</i> , 2012, 481, 306-313. | 27.8 | 2,570 |
| 2 | Cancer as an evolutionary and ecological process. <i>Nature Reviews Cancer</i> , 2006, 6, 924-935. | 28.4 | 1,470 |
| 3 | Genetic clonal diversity predicts progression to esophageal adenocarcinoma. <i>Nature Genetics</i> , 2006, 38, 468-473. | 21.4 | 635 |
| 4 | Pan-cancer analysis of the extent and consequences of intratumor heterogeneity. <i>Nature Medicine</i> , 2016, 22, 105-113. | 30.7 | 629 |
| 5 | Potential Mechanisms for Cancer Resistance in Elephants and Comparative Cellular Response to DNA Damage in Humans. <i>JAMA - Journal of the American Medical Association</i> , 2015, 314, 1850. | 7.4 | 346 |
| 6 | Is eating behavior manipulated by the gastrointestinal microbiota? Evolutionary pressures and potential mechanisms. <i>BioEssays</i> , 2014, 36, 940-949. | 2.5 | 328 |
| 7 | Cancer across the tree of life: cooperation and cheating in multicellularity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140219. | 4.0 | 303 |
| 8 | Classifying the evolutionary and ecological features of neoplasms. <i>Nature Reviews Cancer</i> , 2017, 17, 605-619. | 28.4 | 303 |
| 9 | Peto's Paradox: evolution's prescription for cancer prevention. <i>Trends in Ecology and Evolution</i> , 2011, 26, 175-182. | 8.7 | 290 |
| 10 | Progress in Chemoprevention Drug Development: The Promise of Molecular Biomarkers for Prevention of Intraepithelial Neoplasia and Cancer—A Plan to Move Forward. <i>Clinical Cancer Research</i> , 2006, 12, 3661-3697. | 7.0 | 263 |
| 11 | NSAIDs Modulate CDKN2A, TP53, and DNA Content Risk for Progression to Esophageal Adenocarcinoma. <i>PLoS Medicine</i> , 2007, 4, e67. | 8.4 | 228 |
| 12 | Life history trade-offs in cancer evolution. <i>Nature Reviews Cancer</i> , 2013, 13, 883-892. | 28.4 | 207 |
| 13 | Selectively Advantageous Mutations and Hitchhikers in Neoplasms. <i>Cancer Research</i> , 2004, 64, 3414-3427. | 0.9 | 199 |
| 14 | Genomic Instability in Cancer: Teetering on the Limit of Tolerance. <i>Cancer Research</i> , 2017, 77, 2179-2185. | 0.9 | 182 |
| 15 | The Combination of Genetic Instability and Clonal Expansion Predicts Progression to Esophageal Adenocarcinoma. <i>Cancer Research</i> , 2004, 64, 7629-7633. | 0.9 | 180 |
| 16 | A Comprehensive Survey of Clonal Diversity Measures in Barrett's Esophagus as Biomarkers of Progression to Esophageal Adenocarcinoma. <i>Cancer Prevention Research</i> , 2010, 3, 1388-1397. | 1.5 | 140 |
| 17 | Temporal and Spatial Evolution of Somatic Chromosomal Alterations: A Case-Cohort Study of Barrett's Esophagus. <i>Cancer Prevention Research</i> , 2014, 7, 114-127. | 1.5 | 135 |
| 18 | Extent of Low-Grade Dysplasia Is a Risk Factor for the Development of Esophageal Adenocarcinoma in Barrett's Esophagus. <i>American Journal of Gastroenterology</i> , 2007, 102, 483-493. | 0.4 | 121 |

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|----|---|------|-----------|
| 19 | Cancer in Light of Experimental Evolution. <i>Current Biology</i> , 2012, 22, R762-R771. | 3.9 | 103 |
| 20 | Chromosomal Instability and Copy Number Alterations in Barrett's Esophagus and Esophageal Adenocarcinoma. <i>Clinical Cancer Research</i> , 2009, 15, 3305-3314. | 7.0 | 99 |
| 21 | Overlooking Evolution: A Systematic Analysis of Cancer Relapse and Therapeutic Resistance Research. <i>PLoS ONE</i> , 2011, 6, e26100. | 2.5 | 88 |
| 22 | Cancer risk across mammals. <i>Nature</i> , 2022, 601, 263-267. | 27.8 | 86 |
| 23 | SYNTHESIS: Cancer research meets evolutionary biology. <i>Evolutionary Applications</i> , 2009, 2, 62-70. | 3.1 | 83 |
| 24 | An ecological measure of immune-cancer colocalization as a prognostic factor for breast cancer. <i>Breast Cancer Research</i> , 2015, 17, 131. | 5.0 | 81 |
| 25 | Exploiting evolutionary steering to induce collateral drug sensitivity in cancer. <i>Nature Communications</i> , 2020, 11, 1923. | 12.8 | 79 |
| 26 | Spatial structure increases the waiting time for cancer. <i>New Journal of Physics</i> , 2011, 13, 115014. | 2.9 | 77 |
| 27 | Dynamic clonal equilibrium and predetermined cancer risk in Barrett's oesophagus. <i>Nature Communications</i> , 2016, 7, 12158. | 12.8 | 75 |
| 28 | Return to the Sea, Get Huge, Beat Cancer: An Analysis of Cetacean Genomes Including an Assembly for the Humpback Whale (<i>Megaptera novaeangliae</i>). <i>Molecular Biology and Evolution</i> , 2019, 36, 1746-1763. | 8.9 | 75 |
| 29 | Single Nucleotide Polymorphism-Based Genome-Wide Chromosome Copy Change, Loss of Heterozygosity, and Aneuploidy in Barrett's Esophagus Neoplastic Progression. <i>Cancer Prevention Research</i> , 2008, 1, 413-423. | 1.5 | 70 |
| 30 | Solutions to Peto's paradox revealed by mathematical modelling and cross-species cancer gene analysis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140222. | 4.0 | 69 |
| 31 | Animal Cell Differentiation Patterns Suppress Somatic Evolution. <i>PLoS Computational Biology</i> , 2007, 3, e250. | 3.2 | 62 |
| 32 | Peto's Paradox: how has evolution solved the problem of cancer prevention?. <i>BMC Biology</i> , 2017, 15, 60. | 3.8 | 60 |
| 33 | NSAIDs Modulate Clonal Evolution in Barrett's Esophagus. <i>PLoS Genetics</i> , 2013, 9, e1003553. | 3.5 | 59 |
| 34 | Peto's paradox and the promise of comparative oncology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140177. | 4.0 | 58 |
| 35 | Identifying key questions in the ecology and evolution of cancer. <i>Evolutionary Applications</i> , 2021, 14, 877-892. | 3.1 | 58 |
| 36 | Prediction of Occult Invasive Disease in Ductal Carcinoma in Situ Using Deep Learning Features. <i>Journal of the American College of Radiology</i> , 2018, 15, 527-534. | 1.8 | 56 |

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|----|--|------|-----------|
| 37 | Lifetime cancer prevalence and life history traits in mammals. <i>Evolution, Medicine and Public Health</i> , 2020, 2020, 187-195. | 2.5 | 56 |
| 38 | Accurate Reconstruction of the Temporal Order of Mutations in Neoplastic Progression. <i>Cancer Prevention Research</i> , 2011, 4, 1135-1144. | 1.5 | 54 |
| 39 | The role of genetic diversity in cancer. <i>Journal of Clinical Investigation</i> , 2010, 120, 401-403. | 8.2 | 52 |
| 40 | Solving the Puzzle of Metastasis: The Evolution of Cell Migration in Neoplasms. <i>PLoS ONE</i> , 2011, 6, e17933. | 2.5 | 51 |
| 41 | Natural selection in neoplastic progression of Barrett's esophagus. <i>Seminars in Cancer Biology</i> , 2005, 15, 474-483. | 9.6 | 49 |
| 42 | Natural Selection in Cancer Biology: From Molecular Snowflakes to Trait Hallmarks. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2017, 7, a029652. | 6.2 | 48 |
| 43 | Evolution of Barrett's esophagus through space and time at single-crypt and whole-biopsy levels. <i>Nature Communications</i> , 2018, 9, 794. | 12.8 | 47 |
| 44 | Multistage carcinogenesis in Barrett's esophagus. <i>Cancer Letters</i> , 2007, 245, 22-32. | 7.2 | 46 |
| 45 | Natural resistance to cancers: a Darwinian hypothesis to explain Peto's paradox. <i>BMC Cancer</i> , 2012, 12, 387. | 2.6 | 44 |
| 46 | Assessment of Esophageal Adenocarcinoma Risk Using Somatic Chromosome Alterations in Longitudinal Samples in Barrett's Esophagus. <i>Cancer Prevention Research</i> , 2015, 8, 845-856. | 1.5 | 44 |
| 47 | Modelling the evolution of genetic instability during tumour progression. <i>Evolutionary Applications</i> , 2013, 6, 20-33. | 3.1 | 41 |
| 48 | Cancer prevention strategies that address the evolutionary dynamics of neoplastic cells: simulating benign cell boosters and selection for chemosensitivity. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2004, 13, 1375-84. | 2.5 | 41 |
| 49 | Deletion at Fragile Sites Is a Common and Early Event in Barrett's Esophagus. <i>Molecular Cancer Research</i> , 2010, 8, 1084-1094. | 3.4 | 40 |
| 50 | Derivation of genetic biomarkers for cancer risk stratification in Barrett's oesophagus: a prospective cohort study. <i>Gut</i> , 2016, 65, 1602-1610. | 12.1 | 39 |
| 51 | Dispersal Evolution in Neoplasms: The Role of Disregulated Metabolism in the Evolution of Cell Motility. <i>Cancer Prevention Research</i> , 2012, 5, 266-275. | 1.5 | 38 |
| 52 | Genetic Mechanisms of TP53 Loss of Heterozygosity in Barrett's Esophagus: Implications for Biomarker Validation. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2006, 15, 509-516. | 2.5 | 37 |
| 53 | Modeling the Subclonal Evolution of Cancer Cell Populations. <i>Cancer Research</i> , 2018, 78, 830-839. | 0.9 | 37 |
| 54 | Preneoplastic lesion growth driven by the death of adjacent normal stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15034-15039. | 7.1 | 36 |

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|----|---|------|-----------|
| 55 | Exploring the Relationship between Neutral and Selective Mutations in Cancer. <i>Artificial Life</i> , 2000, 6, 325-345. | 1.3 | 34 |
| 56 | NCI First International Workshop on the Biology, Prevention, and Treatment of Relapse After Allogeneic Hematopoietic Stem Cell Transplantation: Report from the Committee on the Biological Considerations of Hematological Relapse following Allogeneic Stem Cell Transplantation Unrelated to Graft-versus-Tumor Effects: State of the Science. <i>Biology of Blood and Marrow Transplantation</i> , 2010, 16, 709-728. | 2.0 | 34 |
| 57 | Elephant Genomes Reveal Accelerated Evolution in Mechanisms Underlying Disease Defenses. <i>Molecular Biology and Evolution</i> , 2021, 38, 3606-3620. | 8.9 | 33 |
| 58 | Can oncology recapitulate paleontology? Lessons from species extinctions. <i>Nature Reviews Clinical Oncology</i> , 2015, 12, 273-285. | 27.6 | 31 |
| 59 | The Evolution of Human Cancer Gene Duplications across Mammals. <i>Molecular Biology and Evolution</i> , 2020, 37, 2875-2886. | 8.9 | 31 |
| 60 | New Strategies in Barrett's Esophagus: Integrating Clonal Evolutionary Theory with Clinical Management. <i>Clinical Cancer Research</i> , 2011, 17, 3512-3519. | 7.0 | 30 |
| 61 | The Spatiotemporal Evolution of Lymph Node Spread in Early Breast Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 4763-4770. | 7.0 | 30 |
| 62 | Minimal barriers to invasion during human colorectal tumor growth. <i>Nature Communications</i> , 2020, 11, 1280. | 12.8 | 28 |
| 63 | Mapping the breast cancer metastatic cascade onto ctDNA using genetic and epigenetic clonal tracking. <i>Nature Communications</i> , 2020, 11, 1446. | 12.8 | 28 |
| 64 | Barrett's Esophagus and Its Progression to Adenocarcinoma. <i>Journal of the National Comprehensive Cancer Network: JNCCN</i> , 2006, 4, 367-374. | 4.9 | 25 |
| 65 | An evolutionary explanation for the presence of cancer nonstem cells in neoplasms. <i>Evolutionary Applications</i> , 2013, 6, 92-101. | 3.1 | 25 |
| 66 | Polyploidy, Aneuploidy and the Evolution of Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2010, 676, 1-13. | 1.6 | 22 |
| 67 | Bulk Genotyping of Biopsies Can Create Spurious Evidence for Heterogeneity in Mutation Content. <i>PLoS Computational Biology</i> , 2016, 12, e1004413. | 3.2 | 21 |
| 68 | Prediction of Upstaged Ductal Carcinoma <i>In Situ</i> Using Forced Labeling and Domain Adaptation. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 1565-1572. | 4.2 | 19 |
| 69 | Can Occult Invasive Disease in Ductal Carcinoma <i>In Situ</i> Be Predicted Using Computer-extracted Mammographic Features?. <i>Academic Radiology</i> , 2017, 24, 1139-1147. | 2.5 | 18 |
| 70 | Prediction of Upstaging in Ductal Carcinoma <i>In Situ</i> Based on Mammographic Radiomic Features. <i>Radiology</i> , 2022, 303, 54-62. | 7.3 | 17 |
| 71 | An <i>in vitro</i> co-culture model of esophageal cells identifies ascorbic acid as a modulator of cell competition. <i>BMC Cancer</i> , 2011, 11, 461. | 2.6 | 16 |
| 72 | Somatic whole genome dynamics of precancer in Barrett's esophagus reveals features associated with disease progression. <i>Nature Communications</i> , 2022, 13, 2300. | 12.8 | 13 |

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|----|--|------|-----------|
| 73 | Cooperation and cheating as innovation: insights from cellular societies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160421. | 4.0 | 12 |
| 74 | New models of neoplastic progression in Barrett's oesophagus. <i>Biochemical Society Transactions</i> , 2010, 38, 331-336. | 3.4 | 10 |
| 75 | Upregulation of DNA repair genes and cell extrusion underpin the remarkable radiation resistance of <i>Trichoplax adhaerens</i> . <i>PLoS Biology</i> , 2021, 19, e3001471. | 5.6 | 9 |
| 76 | Anomaly Detection of Calcifications in Mammography Based on 11,000 Negative Cases. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1639-1650. | 4.2 | 9 |
| 77 | Analysis of tumour ecological balance reveals resource-dependent adaptive strategies of ovarian cancer. <i>EBioMedicine</i> , 2019, 48, 224-235. | 6.1 | 8 |
| 78 | Diet, Microbes, and Cancer Across the Tree of Life: a Systematic Review. <i>Current Nutrition Reports</i> , 2022, 11, 508-525. | 4.3 | 8 |
| 79 | Open questions in oesophageal adenocarcinogenesis. <i>Gut</i> , 2007, 56, 897-898. | 12.1 | 7 |
| 80 | Somatic Evolution in Neoplastic Progression and Cancer Prevention. , 2011, , 111-127. | | 6 |
| 81 | A new method to accurately identify single nucleotide variants using small FFPE breast samples. <i>Briefings in Bioinformatics</i> , 2021, 22, . | 6.5 | 4 |
| 82 | Cooperation and Cancer. , 2010, , 471-485. | | 4 |
| 83 | The evolution of metapopulation dynamics and the number of stem cells in intestinal crypts and other tissue structures in multicellular bodies. <i>Evolutionary Applications</i> , 2020, 13, 1771-1783. | 3.1 | 3 |
| 84 | When (distant) relatives stay too long: implications for cancer medicine. <i>Genome Biology</i> , 2016, 17, 34. | 8.8 | 2 |
| 85 | Improving classification with forced labeling of other related classes: application to prediction of upstaged ductal carcinoma in situ using mammographic features. , 2018, , . | | 1 |
| 86 | The life history theory of the Lord of the Rings: a randomized controlled trial of using fact versus fiction to teach life history theory. <i>Evolution: Education and Outreach</i> , 2022, 15, 2. | 0.8 | 1 |
| 87 | Application of simultaneous selective pressures slows adaptation. <i>Evolutionary Applications</i> , 2020, 13, 1615-1625. | 3.1 | 0 |
| 88 | Barbara Natterson-Horowitz and Kathryn Bowers, <i>Wildhood: The Epic Journey from Adolescence to Adulthood in Humans and Other Animals</i> . <i>Evolution, Medicine and Public Health</i> , 2020, 2020, 158-160. | 2.5 | 0 |
| 89 | The Evolutionary Foundations of Cancer Research. , 2016, , 1-16. | | 0 |