# Louis Vermeulen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5299288/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 118 papers | 16,808 citations | 47 h-index | 108 g-index |
| | | 47006 | 25787 |
| 126 all docs | 126 docs citations | 126 times ranked | 22423 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The consensus molecular subtypes of colorectal cancer. Nature Medicine, 2015, 21, 1350-1356. | 30.7 | 3,596 |
| 2 | Wnt activity defines colon cancer stem cells and is regulated by the microenvironment. Nature Cell Biology, 2010, 12, 468-476. | 10.3 | 1,623 |
| 3 | Colon Cancer Stem Cells Dictate Tumor Growth and Resist Cell Death by Production of Interleukin-4. Cell Stem Cell, 2007, 1, 389-402. | 11.1 | 968 |
| 4 | Consensus molecular subtypes and the evolution of precision medicine in colorectal cancer. Nature Reviews Cancer, 2017, 17, 79-92. | 28.4 | 686 |
| 5 | Poor-prognosis colon cancer is defined by a molecularly distinct subtype and develops from serrated precursor lesions. Nature Medicine, 2013, 19, 614-618. | 30.7 | 656 |
| 6 | Single-cell cloning of colon cancer stem cells reveals a multi-lineage differentiation capacity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13427-13432. | 7.1 | 654 |
| 7 | Intestinal label-retaining cells are secretory precursors expressing Lgr5. Nature, 2013, 495, 65-69. | 27.8 | 653 |
| 8 | From tumour heterogeneity to advances in precision treatment of colorectal cancer. Nature Reviews Clinical Oncology, 2017, 14, 235-246. | 27.6 | 466 |
| 9 | Cancer Stem Cell Niche: The Place to Be. Cancer Research, 2011, 71, 634-639. | 0.9 | 460 |
| 10 | Microenvironmental regulation of stem cells in intestinal homeostasis and cancer. Nature, 2011, 474, 318-326. | 27.8 | 399 |
| 11 | Defining Stem Cell Dynamics in Models of Intestinal Tumor Initiation. Science, 2013, 342, 995-998. | 12.6 | 355 |
| 12 | The developing cancer stem-cell model: clinical challenges and opportunities. Lancet Oncology, The, 2012, 13, e83-e89. | 10.7 | 327 |
| 13 | The AC133 Epitope, but not the CD133 Protein, Is Lost upon Cancer Stem Cell Differentiation. Cancer Research, 2010, 70, 719-729. | 0.9 | 326 |
| 14 | Cancer stem cells â€“ old concepts, new insights. Cell Death and Differentiation, 2008, 15, 947-958. | 11.2 | 320 |
| 15 | Methylation of Cancer-Stem-Cell-Associated Wnt Target Genes Predicts Poor Prognosis in Colorectal Cancer Patients. Cell Stem Cell, 2011, 9, 476-485. | 11.1 | 291 |
| 16 | Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. Carcinogenesis, 2015, 36, S254-S296. | 2.8 | 239 |
| 17 | Somatic POLE proofreading domain mutation, immune response, and prognosis in colorectal cancer: a retrospective, pooled biomarker study. The Lancet Gastroenterology and Hepatology, 2016, 1, 207-216. | 8.1 | 227 |
| 18 | Cancer heterogeneityâ€”a multifaceted view. EMBO Reports, 2013, 14, 686-695. | 4.5 | 208 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Stem cell dynamics in homeostasis and cancer of the intestine. Nature Reviews Cancer, 2014, 14, 468-480. | 28.4 | 206 |
| 20 | Targeting Wnt Signaling in Colon Cancer Stem Cells. Clinical Cancer Research, 2011, 17, 647-653. | 7.0 | 199 |
| 21 | Continuous Clonal Labeling Reveals Small Numbers of Functional Stem Cells in Intestinal Crypts and Adenomas. Cell Stem Cell, 2013, 13, 626-633. | 11.1 | 188 |
| 22 | Cancer Stem Cell Tumor Model Reveals Invasive Morphology and Increased Phenotypical Heterogeneity. Cancer Research, 2010, 70, 46-56. | 0.9 | 180 |
| 23 | Wnt Signaling in Cancer Stem Cell Biology. Cancers, 2016, 8, 60. | 3.7 | 180 |
| 24 | Colorectal Cancer Heterogeneity and Targeted Therapy: A Case for Molecular Disease Subtypes. Cancer Research, 2015, 75, 245-249. | 0.9 | 163 |
| 25 | Serrated neoplasiaâ€"role in colorectal carcinogenesis and clinical implications. Nature Reviews Gastroenterology and Hepatology, 2015, 12, 401-409. | 17.8 | 149 |
| 26 | Stem cell functionality is microenvironmentally defined during tumour expansion and therapy response in colon cancer. Nature Cell Biology, 2018, 20, 1193-1202. | 10.3 | 138 |
| 27 | DeepCC: a novel deep learning-based framework for cancer molecular subtype classification. Oncogenesis, 2019, 8, 44. | 4.9 | 138 |
| 28 | Consensus molecular subtypes of colorectal cancer are recapitulated in in vitro and in vivo models. Cell Death and Differentiation, 2018, 25, 616-633. | 11.2 | 137 |
| 29 | Cyclooxygenase-2 Inhibition Inhibits c-Met Kinase Activity and Wnt Activity in Colon Cancer. Cancer Research, 2008, 68, 1213-1220. | 0.9 | 130 |
| 30 | CFTR is a tumor suppressor gene in murine and human intestinal cancer. Oncogene, 2016, 35, 4191-4199. | 5.9 | 129 |
| 31 | Practical and Robust Identification of Molecular Subtypes in Colorectal Cancer by Immunohistochemistry. Clinical Cancer Research, 2017, 23, 387-398. | 7.0 | 128 |
| 32 | TGFÎ² signaling directs serrated adenomas to the mesenchymal colorectal cancer subtype. EMBO Molecular Medicine, 2016, 8, 745-760. | 6.9 | 119 |
| 33 | Apc-mutant cells act as supercompetitors in intestinal tumour initiation. Nature, 2021, 594, 436-441. | 27.8 | 108 |
| 34 | Immunogenomic Classification of Colorectal Cancer and Therapeutic Implications. International Journal of Molecular Sciences, 2017, 18, 2229. | 4.1 | 105 |
| 35 | Molecular subtypes in cancers of the gastrointestinal tract. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 333-342. | 17.8 | 99 |
| 36 | The effect of environmental chemicals on the tumor microenvironment. Carcinogenesis, 2015, 36, S160-S183. | 2.8 | 97 |

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|---|---|---|---|
| 37 | Collagen-rich stroma in aggressive colon tumors induces mesenchymal gene expression and tumor cell invasion. Oncogene, 2016, 35, 5263-5271. | 5.9 | 87 |
| 38 | ER-Stress-Induced Differentiation Sensitizes Colon Cancer Stem Cells to Chemotherapy. Cell Reports, 2015, 13, 489-494. | 6.4 | 83 |
| 39 | Mutations in the Rasâ€“Raf Axis Underlie the Prognostic Value of CD133 in Colorectal Cancer. Clinical Cancer Research, 2012, 18, 3132-3141. | 7.0 | 79 |
| 40 | Clinical Value of Consensus Molecular Subtypes in Colorectal Cancer: A Systematic Review and Meta-Analysis. Journal of the National Cancer Institute, 2022, 114, 503-516. | 6.3 | 70 |
| 41 | Reconciliation of classification systems defining molecular subtypes of colorectal cancer. Cell Cycle, 2014, 13, 353-357. | 2.6 | 69 |
| 42 | Spatiotemporal regulation of clonogenicity in colorectal cancer xenografts. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6140-6145. | 7.1 | 60 |
| 43 | Tumour budding is associated with the mesenchymal colon cancer subtype and RAS/RAF mutations: a study of 1320 colorectal cancers with Consensus Molecular Subgroup (CMS) data. British Journal of Cancer, 2018, 119, 1244-1251. | 6.4 | 57 |
| 44 | A cancer drug atlas enables synergistic targeting of independent drug vulnerabilities. Nature Communications, 2020, 11, 2935. | 12.8 | 57 |
| 45 | Bcl-2 is a critical mediator of intestinal transformation. Nature Communications, 2016, 7, 10916. | 12.8 | 55 |
| 46 | Itraconazole targets cell cycle heterogeneity in colorectal cancer. Journal of Experimental Medicine, 2018, 215, 1891-1912. | 8.5 | 54 |
| 47 | Kinome Analysis Reveals Nongenomic Glucocorticoid Receptor-Dependent Inhibition of Insulin Signaling. Endocrinology, 2006, 147, 3555-3562. | 2.8 | 53 |
| 48 | Modeling Evolutionary Dynamics of Epigenetic Mutations in Hierarchically Organized Tumors. PLoS Computational Biology, 2011, 7, e1001132. | 3.2 | 53 |
| 49 | Regulation of stem cell self-renewal and differentiation by Wnt and Notch are conserved throughout the adenoma-carcinoma sequence in the colon. Molecular Cancer, 2013, 12, 126. | 19.2 | 50 |
| 50 | A multidimensional network approach reveals microRNAs as determinants of the mesenchymal colorectal cancer subtype. Oncogene, 2016, 35, 6026-6037. | 5.9 | 49 |
| 51 | Unsupervised class discovery in pancreatic ductal adenocarcinoma reveals cell-intrinsic mesenchymal features and high concordance between existing classification systems. Scientific Reports, 2020, 10, 337. | 3.3 | 46 |
| 52 | Stem cells in homeostasis and cancer of the gut. Molecular Cancer, 2019, 18, 66. | 19.2 | 44 |
| 53 | Chromosomal copy number heterogeneity predicts survival rates across cancers. Nature Communications, 2021, 12, 3188. | 12.8 | 43 |
| 54 | Integrative network biology analysis identifies miR-508-3p as the determinant for the mesenchymal identity and a strong prognostic biomarker of ovarian cancer. Oncogene, 2019, 38, 2305-2319. | 5.9 | 41 |

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|---|---|---|---|
| 55 | Predictors of 30-Day Mortality Among Dutch Patients Undergoing Colorectal Cancer Surgery, 2011-2016. JAMA Network Open, 2021, 4, e217737. | 5.9 | 37 |
| 56 | Neoadjuvant chemotherapy affects molecular classification of colorectal tumors. Oncogenesis, 2017, 6, e357-e357. | 4.9 | 35 |
| 57 | Loss of KCNQ1 expression in stage II and stage III colon cancer is a strong prognostic factor for disease recurrence. British Journal of Cancer, 2016, 115, 1565-1574. | 6.4 | 34 |
| 58 | Exploring cancer stem cell niche directed tumor growth. Cell Cycle, 2010, 9, 1472-1479. | 2.6 | 32 |
| 59 | Classification of Colorectal Cancer in Molecular Subtypes by Immunohistochemistry. Methods in Molecular Biology, 2018, 1765, 179-191. | 0.9 | 31 |
| 60 | Emerging Role and Therapeutic Potential of lncRNAs in Colorectal Cancer. Cancers, 2020, 12, 3843. | 3.7 | 29 |
| 61 | Dissecting cancer heterogeneity â€“ An unsupervised classification approach. International Journal of Biochemistry and Cell Biology, 2013, 45, 2574-2579. | 2.8 | 28 |
| 62 | Turning Cold Tumors Hot by Blocking TGF-Î². Trends in Cancer, 2018, 4, 335-337. | 7.4 | 26 |
| 63 | Esophageal Adenocarcinoma Cells and Xenograft Tumors Exposed to Erb-b2 Receptor Tyrosine Kinase 2 and 3 Inhibitors Activate Transforming Growth Factor Beta Signaling, Which Induces Epithelial to Mesenchymal Transition. Gastroenterology, 2017, 153, 63-76.e14. | 1.3 | 25 |
| 64 | Primary tumour immune response and lymph node yields in colon cancer. British Journal of Cancer, 2022, 126, 1178-1185. | 6.4 | 24 |
| 65 | The interplay between intrinsic and extrinsic Wnt signaling in controlling intestinal transformation. Differentiation, 2019, 108, 17-23. | 1.9 | 23 |
| 66 | CD44 Expression in Intestinal Epithelium and Colorectal Cancer Is Independent of p53 Status. PLoS ONE, 2013, 8, e72849. | 2.5 | 23 |
| 67 | One renegade cancer stem cell?. Cell Cycle, 2009, 8, 803-808. | 2.6 | 22 |
| 68 | Bidirectional interconversion of stem and non-stem cancer cell populations: A reassessment of theoretical models for tumor heterogeneity. Molecular and Cellular Oncology, 2016, 3, e1098791. | 0.7 | 19 |
| 69 | Fusion of intestinal epithelial cells with bone marrow derived cells is dispensable for tissue homeostasis. Scientific Reports, 2012, 2, 271. | 3.3 | 17 |
| 70 | Histological phenotypic subtypes predict recurrence risk and response to adjuvant chemotherapy in patients with stage III colorectal cancer. Journal of Pathology: Clinical Research, 2020, 6, 283-296. | 3.0 | 17 |
| 71 | A mouse model for peritoneal metastases of colorectal origin recapitulates patient heterogeneity. Laboratory Investigation, 2020, 100, 1465-1474. | 3.7 | 17 |
| 72 | Associations of non-pedunculated T1 colorectal adenocarcinoma outcome with consensus molecular subtypes, immunoscore, and microsatellite status: a multicenter case-cohort study. Modern Pathology, 2020, 33, 2626-2636. | 5.5 | 17 |

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| 73 | AKT3 Expression in Mesenchymal Colorectal Cancer Cells Drives Growth and Is Associated with Epithelial-Mesenchymal Transition. Cancers, 2021, 13, 801. | 3.7 | 16 |
| 74 | Cancer stem cells donâ€™t waste their time cleaningâ€”low proteasome activity, a marker for cancer stem cell function. Annals of Translational Medicine, 2016, 4, 519-519. | 1.7 | 15 |
| 75 | Interconnectivity between molecular subtypes and tumor stage in colorectal cancer. BMC Cancer, 2020, 20, 850. | 2.6 | 14 |
| 76 | Integrated single-cell analysis unveils diverging immune features of COVID-19, influenza, and other community-acquired pneumonia. ELife, 2021, 10, . | 6.0 | 12 |
| 77 | Continuous clonal labeling reveals uniform progenitor potential in the adult exocrine pancreas. Cell Stem Cell, 2021, 28, 2009-2019.e4. | 11.1 | 11 |
| 78 | The Use of Targeted Therapies for Precision Medicine in Oncology. Clinical Chemistry, 2016, 62, 1556-1564. | 3.2 | 10 |
| 79 | Molecular subtype-specific efficacy of anti-EGFR therapy in colorectal cancer is dependent on the chemotherapy backbone. British Journal of Cancer, 2021, 125, 1080-1088. | 6.4 | 10 |
| 80 | Mimicking and surpassing the xenograft model with cancer-on-chip technology. EBioMedicine, 2021, 66, 103303. | 6.1 | 9 |
| 81 | Intestinal stem cell dynamics in homeostasis and cancer. Trends in Cancer, 2022, 8, 416-425. | 7.4 | 9 |
| 82 | Keeping Stem Cells in Check: A Hippo Balancing Act. Cell Stem Cell, 2013, 12, 3-5. | 11.1 | 8 |
| 83 | Balancing signals in the intestinal niche. EMBO Journal, 2017, 36, 389-391. | 7.8 | 8 |
| 84 | Intestinal region-specific Wnt signalling profiles reveal interrelation between cell identity and oncogenic pathway activity in cancer development. Cancer Cell International, 2020, 20, 578. | 4.1 | 8 |
| 85 | High-Fat Diet Impacts on Tumor Development in the Gut. Trends in Cancer, 2021, 7, 664-665. | 7.4 | 8 |
| 86 | Marker-free lineage tracing reveals an environment-instructed clonogenic hierarchy in pancreatic cancer. Cell Reports, 2021, 37, 109852. | 6.4 | 8 |
| 87 | Stem Cells in the Exocrine Pancreas during Homeostasis, Injury, and Cancer. Cancers, 2021, 13, 3295. | 3.7 | 7 |
| 88 | Serum-based measurements of stromal activation through ADAM12 associate with poor prognosis in colorectal cancer. BMC Cancer, 2022, 22, 394. | 2.6 | 7 |
| 89 | Stem cell competition: how speeding mutants beat the rest. EMBO Journal, 2014, 33, 2277-2278. | 7.8 | 6 |
| 90 | The recurring features of molecular subtypes in distinct gastrointestinal malignanciesâ€”A systematic review. Critical Reviews in Oncology/Hematology, 2021, 164, 103428. | 4.4 | 6 |

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|---|---|---|---|
| 91 | Exploiting KRAS-mediated metabolic reprogramming as a therapeutic target. Nature Genetics, 2021, 53, 9-10. | 21.4 | 6 |
| 92 | Development of a miRNAâ€based classifier for detection of colorectal cancer molecular subtypes. Molecular Oncology, 2022, 16, 2693-2709. | 4.6 | 6 |
| 93 | A marker-independent lineage-tracing system to quantify clonal dynamics and stem cell functionality in cancer tissue. Nature Protocols, 2019, 14, 2648-2671. | 12.0 | 4 |
| 94 | Intestinal organoid co-culture protocol to study cell competition in vitro. STAR Protocols, 2022, 3, 101050. | 1.2 | 4 |
| 95 | Polycomb complex PRC1 as gatekeeper of intestinal stem cell identity. Stem Cell Investigation, 2016, 3, 22-22. | 3.0 | 3 |
| 96 | Stem Cells: All that Is Solid Melts into Air. Cell Stem Cell, 2017, 21, 5-7. | 11.1 | 3 |
| 97 | What Will We Expect From Novel Therapies to Esophageal and Gastric Malignancies?. American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting, 2018, 38, 249-261. | 3.8 | 3 |
| 98 | CD31-positive microvessel density within adenomas of Lynch Syndrome patients is similar compared to adenomas of non-Lynch patients. Endoscopy International Open, 2019, 07, E701-E707. | 1.8 | 3 |
| 99 | Prognostic value of low CDX2 expression in colorectal cancers with a high stromal content â€“ a short report. Cellular Oncology (Dordrecht), 2019, 42, 397-403. | 4.4 | 3 |
| 100 | Rebuttal to: Digesting the Importance of Cell Fusion in the Intestine. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 303. | 4.5 | 2 |
| 101 | Pre-Operative Decitabine in Colon Cancer Patients: Analyses on WNT Target Methylation and Expression. Cancers, 2021, 13, 2357. | 3.7 | 2 |
| 102 | Turning off the BCL-2 switch to prevent intestinal tumorigenesis. Oncotarget, 2016, 7, 28763-28764. | 1.8 | 2 |
| 103 | The Effect of Dynamic, In Vivo-like Oxaliplatin on HCT116 Spheroids in a Cancer-on-Chip Model Is Representative of the Response in Xenografts. Micromachines, 2022, 13, 739. | 2.9 | 2 |
| 104 | A Cancer Stem Cell Perspective on Minimal Residual Disease in Solid Malignancies. Resistance To Targeted Anti-cancer Therapeutics, 2019, , 31-49. | 0.1 | 1 |
| 105 | Cancer stem cells: here, there, and everywhere. Molecular and Cellular Oncology, 2019, 6, 1540235. | 0.7 | 1 |
| 106 | 474P Prognostic and predictive role of Consensus Molecular Subtypes (CMS) determined by immunohistochemistry in metastatic colorectal cancer (mCRC). Annals of Oncology, 2020, 31, S442-S443. | 1.2 | 1 |
| 107 | Predicting survival of cancer patients by chromosomal copy number heterogeneity. Molecular and Cellular Oncology, 2021, 8, 1949956. | 0.7 | 1 |
| 108 | Cancer Stem Cells in Colorectal Cancer. , 2009, , 223-250. | | 1 |

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| 109 | Copyâ€number heterogeneity as highâ€risk feature of stage <scp>II</scp> colon cancer <sup>â€</sup>. Journal of Pathology, 2022, , . | 4.5 | 1 |
| 110 | Quantitative models for the inference of intratumor heterogeneity. Computational and Systems Oncology, 2022, 2, . | 1.5 | 1 |
| 111 | Confusion on Cell Fusion. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 304-306. | 4.5 | 0 |
| 112 | Systems biology and molecular characterization of subtypes to guide targeted therapies in gastric cancer. , 2021, , 259-288. | | 0 |
| 113 | Early Cost-effectiveness Analysis of Risk-Based Selection Strategies for Adjuvant Treatment in Stage II Colon Cancer: The Potential Value of Prognostic Molecular Markers. Cancer Epidemiology Biomarkers and Prevention, 2021, 30, 1726-1734. | 2.5 | 0 |
| 114 | Abstract 603: Consensus molecular subtyping through a community of experts advances unsupervised gene expression-based disease classification and facilitates clinical translation. , 2015, , . | | 0 |
| 115 | Abstract LB-108: Automated immunohistochemistry-based identification of molecular subtypes in colorectal cancer. , 2015, , . | | 0 |
| 116 | Abstract 5177: Heterogeneity of pancreatic ductal adenocarcinoma visualized. , 2015, , . | | 0 |
| 117 | Abstract 5273: Role of methylation of Wnt target genes in tumorigenesis and effect of re-expression with demethylating agent decitabine in colon cancer. , 2015, , . | | 0 |
| 118 | Phenotypic subtypes as a novel validated prognostic classification system for patients with colorectal cancer.. Journal of Clinical Oncology, 2018, 36, 625-625. | 1.6 | 0 |