

# Martin Widschwendter

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

10,250  
citations

48  
h-index

101  
g-index

108  
ext. papers

11,706  
ext. citations

10.2  
avg, IF

5.6  
L-index

#	Paper	IF	Citations
103	CpG island methylator phenotype underlies sporadic microsatellite instability and is tightly associated with BRAF mutation in colorectal cancer. <i>Nature Genetics</i> , <b>2006</b> , 38, 787-93	36.3	1514
102	Epigenetic stem cell signature in cancer. <i>Nature Genetics</i> , <b>2007</b> , 39, 157-8	36.3	909
101	Age-dependent DNA methylation of genes that are suppressed in stem cells is a hallmark of cancer. <i>Genome Research</i> , <b>2010</b> , 20, 440-6	9.7	638
100	Ovarian cancer screening and mortality in the UK Collaborative Trial of Ovarian Cancer Screening (UKCTOCS): a randomised controlled trial. <i>Lancet, The</i> , <b>2016</b> , 387, 945-956	40	563
99	Osteoclast differentiation factor RANKL controls development of progestin-driven mammary cancer. <i>Nature</i> , <b>2010</b> , 468, 98-102	50.4	434
98	DNA methylation and breast carcinogenesis. <i>Oncogene</i> , <b>2002</b> , 21, 5462-82	9.2	386
97	Association of breast cancer DNA methylation profiles with hormone receptor status and response to tamoxifen. <i>Cancer Research</i> , <b>2004</b> , 64, 3807-13	10.1	284
96	Menopause accelerates biological aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9327-32	11.5	248
95	An epigenetic signature in peripheral blood predicts active ovarian cancer. <i>PLoS ONE</i> , <b>2009</b> , 4, e8274	3.7	245
94	DNA methylation in serum of breast cancer patients: an independent prognostic marker. <i>Cancer Research</i> , <b>2003</b> , 63, 7641-5	10.1	222
93	Circulating tumor-specific DNA: a marker for monitoring efficacy of adjuvant therapy in cancer patients. <i>Cancer Research</i> , <b>2005</b> , 65, 1141-5	10.1	205
92	Independent surrogate variable analysis to deconvolve confounding factors in large-scale microarray profiling studies. <i>Bioinformatics</i> , <b>2011</b> , 27, 1496-505	7.2	194
91	DNA hypomethylation and ovarian cancer biology. <i>Cancer Research</i> , <b>2004</b> , 64, 4472-80	10.1	193
90	Hypomethylation and hypermethylation of DNA in Wilms tumors. <i>Oncogene</i> , <b>2002</b> , 21, 6694-702	9.2	154
89	Breast cancer DNA methylation profiles in cancer cells and tumor stroma: association with HER-2/neu status in primary breast cancer. <i>Cancer Research</i> , <b>2006</b> , 66, 29-33	10.1	153
88	Dose-Response Association of CD8+ Tumor-Infiltrating Lymphocytes and Survival Time in High-Grade Serous Ovarian Cancer. <i>JAMA Oncology</i> , <b>2017</b> , 3, e173290	13.4	152
87	DNA methylation outliers in normal breast tissue identify field defects that are enriched in cancer. <i>Nature Communications</i> , <b>2016</b> , 7, 10478	17.4	141

86	Correlation of Smoking-Associated DNA Methylation Changes in Buccal Cells With DNA Methylation Changes in Epithelial Cancer. <i>JAMA Oncology</i> , <b>2015</b> , 1, 476-85	13.4	136
85	Risk Algorithm Using Serial Biomarker Measurements Doubles the Number of Screen-Detected Cancers Compared With a Single-Threshold Rule in the United Kingdom Collaborative Trial of Ovarian Cancer Screening. <i>Journal of Clinical Oncology</i> , <b>2015</b> , 33, 2062-71	2.2	133
84	Epigenetic variability in cells of normal cytology is associated with the risk of future morphological transformation. <i>Genome Medicine</i> , <b>2012</b> , 4, 24	14.4	127
83	Epigenotyping in peripheral blood cell DNA and breast cancer risk: a proof of principle study. <i>PLoS ONE</i> , <b>2008</b> , 3, e2656	3.7	116
82	Correlation of an epigenetic mitotic clock with cancer risk. <i>Genome Biology</i> , <b>2016</b> , 17, 205	18.3	116
81	DNA methylation in serum and tumors of cervical cancer patients. <i>Clinical Cancer Research</i> , <b>2004</b> , 10, 565-71	12.9	112
80	HOTAIR and its surrogate DNA methylation signature indicate carboplatin resistance in ovarian cancer. <i>Genome Medicine</i> , <b>2015</b> , 7, 108	14.4	110
79	DNA hypomethylation is prevalent even in low-grade breast cancers. <i>Cancer Biology and Therapy</i> , <b>2004</b> , 3, 1225-31	4.6	107
78	Role of DNA methylation and epigenetic silencing of HAND2 in endometrial cancer development. <i>PLoS Medicine</i> , <b>2013</b> , 10, e1001551	11.6	100
77	The lncRNA HOTAIR impacts on mesenchymal stem cells via triple helix formation. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 10631-10643	20.1	94
76	The dynamics and prognostic potential of DNA methylation changes at stem cell gene loci in women's cancer. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002517	6	88
75	Neopterin Is an Independent Prognostic Variable in Females with Breast Cancer. <i>Clinical Chemistry</i> , <b>1999</b> , 45, 1998-2004	5.5	87
74	HOXA11 DNA methylation--a novel prognostic biomarker in ovarian cancer. <i>International Journal of Cancer</i> , <b>2008</b> , 123, 725-9	7.5	86
73	Genome-wide DNA methylation analysis of archival formalin-fixed paraffin-embedded tissue using the Illumina Infinium HumanMethylation27 BeadChip. <i>Methods</i> , <b>2010</b> , 52, 248-54	4.6	83
72	A comparison of feature selection and classification methods in DNA methylation studies using the Illumina Infinium platform. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 59	3.6	82
71	Differential variability improves the identification of cancer risk markers in DNA methylation studies profiling precursor cancer lesions. <i>Bioinformatics</i> , <b>2012</b> , 28, 1487-94	7.2	82
70	Epigenetic drift, epigenetic clocks and cancer risk. <i>Epigenomics</i> , <b>2016</b> , 8, 705-19	4.4	81
69	The potential of circulating tumor DNA methylation analysis for the early detection and management of ovarian cancer. <i>Genome Medicine</i> , <b>2017</b> , 9, 116	14.4	79

68	The sex hormone system in carriers of BRCA1/2 mutations: a case-control study. <i>Lancet Oncology, The</i> , <b>2013</b> , 14, 1226-32	21.7	73
67	Epigenome-based cancer risk prediction: rationale, opportunities and challenges. <i>Nature Reviews Clinical Oncology</i> , <b>2018</b> , 15, 292-309	19.4	72
66	Prognostic DNA methylation marker in serum of cancer patients. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1022, 44-9	6.5	71
65	CDH1 and CDH13 methylation in serum is an independent prognostic marker in cervical cancer patients. <i>International Journal of Cancer</i> , <b>2004</b> , 109, 163-6	7.5	67
64	A novel cell-type deconvolution algorithm reveals substantial contamination by immune cells in saliva, buccal and cervix. <i>Epigenomics</i> , <b>2018</b> , 10, 925-940	4.4	66
63	Personalized early detection and prevention of breast cancer: ENVISION consensus statement. <i>Nature Reviews Clinical Oncology</i> , <b>2020</b> , 17, 687-705	19.4	64
62	DNA methylation markers for early detection of women's cancer: promise and challenges. <i>Epigenomics</i> , <b>2014</b> , 6, 311-27	4.4	61
61	Analysis of aberrant DNA methylation and human papillomavirus DNA in cervicovaginal specimens to detect invasive cervical cancer and its precursors. <i>Clinical Cancer Research</i> , <b>2004</b> , 10, 3396-400	12.9	58
60	Toll-like receptor 9 expression in breast and ovarian cancer is associated with poorly differentiated tumors. <i>Cancer Science</i> , <b>2010</b> , 101, 1059-66	6.9	54
59	An integrative pan-cancer-wide analysis of epigenetic enzymes reveals universal patterns of epigenomic deregulation in cancer. <i>Genome Biology</i> , <b>2015</b> , 16, 140	18.3	51
58	Testing breast cancer serum biomarkers for early detection and prognosis in pre-diagnosis samples. <i>British Journal of Cancer</i> , <b>2017</b> , 116, 501-508	8.7	50
57	HOXA methylation in normal endometrium from premenopausal women is associated with the presence of ovarian cancer: a proof of principle study. <i>International Journal of Cancer</i> , <b>2009</b> , 125, 2214-8	7.5	50
56	A BRCA1-mutation associated DNA methylation signature in blood cells predicts sporadic breast cancer incidence and survival. <i>Genome Medicine</i> , <b>2014</b> , 6, 47	14.4	48
55	Pre-eclampsia: a disorder of placental mitochondria?. <i>Trends in Molecular Medicine</i> , <b>1998</b> , 4, 286-91		46
54	Association between the cervicovaginal microbiome, BRCA1 mutation status, and risk of ovarian cancer: a case-control study. <i>Lancet Oncology, The</i> , <b>2019</b> , 20, 1171-1182	21.7	45
53	Distinctive topology of age-associated epigenetic drift in the human interactome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 14138-43	11.5	45
52	Genome-scale screen for DNA methylation-based detection markers for ovarian cancer. <i>PLoS ONE</i> , <b>2011</b> , 6, e28141	3.7	45
51	DNA methylation analysis in liquid-based cytology for cervical cancer screening. <i>International Journal of Cancer</i> , <b>2009</b> , 125, 2995-3002	7.5	44

50	The dynamics of DNA methylation covariation patterns in carcinogenesis. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003709	5	43
49	Osteoprotegerin (OPG), The Endogenous Inhibitor of Receptor Activator of NF- $\kappa$ B Ligand (RANKL), is Dysregulated in BRCA Mutation Carriers. <i>EBioMedicine</i> , <b>2015</b> , 2, 1331-9	8.8	41
48	Epigenetic reprogramming of fallopian tube fimbriae in BRCA mutation carriers defines early ovarian cancer evolution. <i>Nature Communications</i> , <b>2016</b> , 7, 11620	17.4	38
47	Methylated DNA as a possible screening marker for neoplastic disease in several body fluids. <i>Expert Review of Molecular Diagnostics</i> , <b>2003</b> , 3, 443-58	3.8	36
46	PPM1D Mosaic Truncating Variants in Ovarian Cancer Cases May Be Treatment-Related Somatic Mutations. <i>Journal of the National Cancer Institute</i> , <b>2016</b> , 108,	9.7	34
45	Analysis of methylated genes in peritoneal fluids of ovarian cancer patients: a new prognostic tool. <i>Clinical Chemistry</i> , <b>2004</b> , 50, 2171-3	5.5	34
44	Underlying mechanisms of ovarian cancer risk reduction after tubal ligation. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , <b>2011</b> , 90, 559-63	3.8	33
43	Methylated NEUROD1 promoter is a marker for chemosensitivity in breast cancer. <i>Clinical Cancer Research</i> , <b>2008</b> , 14, 3494-502	12.9	33
42	Methylation patterns in serum DNA for early identification of disseminated breast cancer. <i>Genome Medicine</i> , <b>2017</b> , 9, 115	14.4	32
41	Association of serum sex steroid receptor bioactivity and sex steroid hormones with breast cancer risk in postmenopausal women. <i>Endocrine-Related Cancer</i> , <b>2012</b> , 19, 137-47	5.7	28
40	The potential prognostic, predictive, and therapeutic values of DNA methylation in cancer. Commentary re: J. Kwong et al., Promoter hypermethylation of multiple genes in nasopharyngeal carcinoma. <i>Clin. Cancer Res.</i> , 8: 131-137, 2002, and H-Z. Zou et al., Detection of aberrant p16 methylation in the serum of colorectal cancer patients. <i>Clin. Cancer Res.</i> , 8: 188-191, 2002. <i>Clinical Cancer Research</i> , <b>2002</b> , 8, 17-21	12.9	28
39	Circulating methylated DNA: a new generation of tumor markers. <i>Clinical Cancer Research</i> , <b>2006</b> , 12, 7205-28	5.28	26
38	Methylome analysis of extreme chemoresponsive patients identifies novel markers of platinum sensitivity in high-grade serous ovarian cancer. <i>BMC Medicine</i> , <b>2017</b> , 15, 116	11.4	25
37	Stochastic epigenetic outliers can define field defects in cancer. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 178	3.6	22
36	DNA methylation changes in sera of women in early pregnancy are similar to those in advanced breast cancer patients. <i>Clinical Chemistry</i> , <b>2004</b> , 50, 1065-8	5.5	22
35	Development and Validation of the Gene Expression Predictor of High-grade Serous Ovarian Carcinoma Molecular SubTYPE (ProTYPE). <i>Clinical Cancer Research</i> , <b>2020</b> , 26, 5411-5423	12.9	21
34	Relationship between genome and epigenome--challenges and requirements for future research. <i>BMC Genomics</i> , <b>2014</b> , 15, 487	4.5	21
33	The multi-omic landscape of transcription factor inactivation in cancer. <i>Genome Medicine</i> , <b>2016</b> , 8, 89	14.4	20

32	A DNA methylation pattern similar to normal tissue is associated with better prognosis in human cervical cancer. <i>Cancer Letters</i> , <b>2004</b> , 209, 231-6	9.9	19
31	Emerging promise of epigenetics and DNA methylation for the diagnosis and management of women's cancers. <i>Epigenomics</i> , <b>2010</b> , 2, 9-38	4.4	18
30	The integrative epigenomic-transcriptomic landscape of ER positive breast cancer. <i>Clinical Epigenetics</i> , <b>2015</b> , 7, 126	7.7	17
29	Corruption of the intra-gene DNA methylation architecture is a hallmark of cancer. <i>PLoS ONE</i> , <b>2013</b> , 8, e68285	3.7	17
28	GALR1 methylation in vaginal swabs is highly accurate in identifying women with endometrial cancer. <i>International Journal of Gynecological Cancer</i> , <b>2013</b> , 23, 1050-5	3.5	16
27	Integration of genetic and epigenetic markers for risk stratification: opportunities and challenges. <i>Personalized Medicine</i> , <b>2016</b> , 13, 93-95	2.2	14
26	DNA Methylation Patterns in Normal Tissue Correlate more Strongly with Breast Cancer Status than Copy-Number Variants. <i>EBioMedicine</i> , <b>2018</b> , 31, 243-252	8.8	13
25	Epigenetics makes its mark on women-specific cancers--an opportunity to redefine oncological approaches?. <i>Gynecologic Oncology</i> , <b>2013</b> , 128, 134-143	4.9	13
24	Prediction models for endometrial cancer for the general population or symptomatic women: A systematic review. <i>Critical Reviews in Oncology/Hematology</i> , <b>2018</b> , 126, 92-99	7	11
23	Comparison of two protocols for the management of asymptomatic postmenopausal women with adnexal tumours - a randomised controlled trial of RMI/RCOG vs Simple Rules. <i>British Journal of Cancer</i> , <b>2017</b> , 116, 584-591	8.7	10
22	Intra-Gene DNA Methylation Variability Is a Clinically Independent Prognostic Marker in Women's Cancers. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143178	3.7	10
21	DNA methylation of polycomb group target genes in cores taken from breast cancer centre and periphery. <i>Breast Cancer Research and Treatment</i> , <b>2010</b> , 120, 345-55	4.4	9
20	Targeting progesterone signaling prevents metastatic ovarian cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 31993-32004	11.5	9
19	Accounting for differential variability in detecting differentially methylated regions. <i>Briefings in Bioinformatics</i> , <b>2019</b> , 20, 47-57	13.4	9
18	Outcome of patients with advanced ovarian cancer who do not undergo debulking surgery: A single institution retrospective review. <i>Gynecologic Oncology</i> , <b>2017</b> , 144, 57-60	4.9	8
17	Ethical, Legal, and Regulatory Issues for the Implementation of Omics-Based Risk Prediction of Women's Cancer: Points to Consider. <i>Public Health Genomics</i> , <b>2018</b> , 21, 37-44	1.9	8
16	A Mouse Model That Reproduces the Developmental Pathways and Site Specificity of the Cancers Associated With the Human BRCA1 Mutation Carrier State. <i>EBioMedicine</i> , <b>2015</b> , 2, 1318-30	8.8	7
15	What do European women know about their female cancer risks and cancer screening? A cross-sectional online intervention survey in five European countries. <i>BMJ Open</i> , <b>2018</b> , 8, e023789	3	7

14	The WID-BC-index identifies women with primary poor prognostic breast cancer based on DNA methylation in cervical samples.. <i>Nature Communications</i> , <b>2022</b> , 13, 449	17.4	5
13	Mechanism of cytokinesis failure in ovarian cystadenomas with defective BRCA1 and P53 pathways. <i>International Journal of Cancer</i> , <b>2018</b> , 143, 2932-2942	7.5	4
12	A donor-specific epigenetic classifier for acute graft-versus-host disease severity in hematopoietic stem cell transplantation. <i>Genome Medicine</i> , <b>2015</b> , 7, 128	14.4	4
11	The DNA methylome of cervical cells can predict the presence of ovarian cancer.. <i>Nature Communications</i> , <b>2022</b> , 13, 448	17.4	3
10	A Systematic Review on Cost-effectiveness Studies Evaluating Ovarian Cancer Early Detection and Prevention Strategies. <i>Cancer Prevention Research</i> , <b>2020</b> , 13, 429-442	3.2	3
9	Brca1 Mutations Enhance Mouse Reproductive Functions by Increasing Responsiveness to Male-Derived Scent. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139013	3.7	2
8	DNA methylation signatures to predict the cervicovaginal microbiome status. <i>Clinical Epigenetics</i> , <b>2020</b> , 12, 180	7.7	2
7	Non-Surgical Cancer Risk Reduction in Mutation Carriers: Disabling the Remote Control. <i>Cancers</i> , <b>2020</b> , 12,	6.6	1
6	The Dark Side of Antihormonal Action in Breast Cancer <b>2009</b> , 63-84		1
5	A Network Systems Approach to Identify Functional Epigenetic Drivers in Cancer. <i>Translational Bioinformatics</i> , <b>2013</b> , 131-152		1
4	Cost-Effectiveness of Early Detection and Prevention Strategies for Endometrial Cancer-A Systematic Review. <i>Cancers</i> , <b>2020</b> , 12,	6.6	1
3	Susceptibility to hormone-mediated cancer is reflected by different tick rates of the epithelial and general epigenetic clock.. <i>Genome Biology</i> , <b>2022</b> , 23, 52	18.3	0
2	Pregnancy and breast cancer229-242		
1	Feasibility of circulating tumour cell (CTC) enumeration and molecular profiling (MP) as a biomarker in advanced endometrial cancer (aEC).. <i>Journal of Clinical Oncology</i> , <b>2014</b> , 32, 5600-5600	2.2	