RESEARCH & PUBLICATIONS

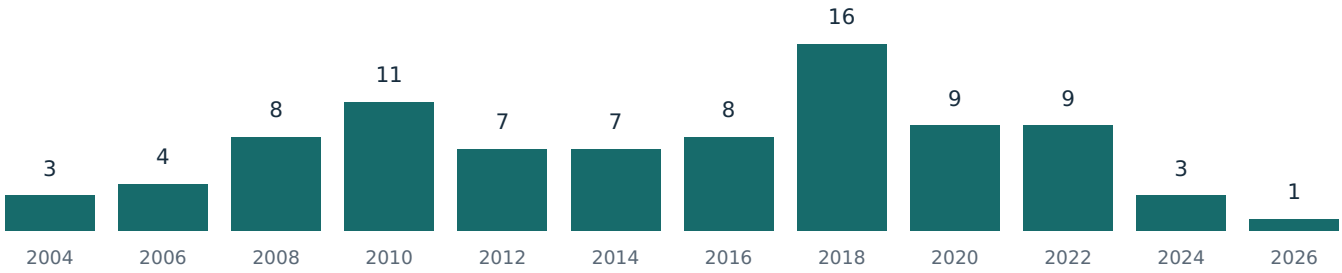
Anita B Hjelmeland

A publication record at a glance

87	16,550	42
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



1 articles have no publication year in the database.

MOST CITED IN THIS LIST

Glioma Stem Cells Promote Radioresistance by Preferential Activation of the DNA Damage Response — 5,993

2006 Nature

Hypoxia-Inducible Factors Regulate Tumorigenic Capacity of Glioma Stem Cells — 1,333

2009 Cancer Cell

Stem Cell–Like Glioma Cells Promote Tumor Angiogenesis Through Vascular Endothelial Growth Factor — 1,270

2006 Cancer Research

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Ordered by publication year, newest first

2026

01 **Abstract 5878: Tumor Treating Fields Remain Effective in Therapy-Resistant Glioblastoma With Kinome Shifts Revealing Novel Therapeutic Opportunities**

0 citations

Cancer Research · 86, 5878

https://exaly.com/article/212263975

2025

02 **Endothelial-Secreted Endocan Activates PDGFRA and Regulates Vascularity and Spatial Phenotype in Glioblastoma**

29 citations

Nature Communications · 16, 1-20

https://exaly.com/article/196428710

2024

03 **Signature Reversion of Three Disease-Associated Gene Signatures Prioritizes Cancer Drug Repurposing Candidates**

7 citations

FEBS Open Bio · 14, 803-830

https://exaly.com/article/184606337

04 **Temozolomide and the PARP Inhibitor Niraparib Enhance Expression of Natural Killer Group 2D Ligand ULBP1 and Gamma-Delta T Cell Cytotoxicity in Glioblastoma**

16 citations

Cancers · 16, 2852

https://exaly.com/article/188341066

2023

05 **GAP43-Dependent Mitochondria Transfer From Astrocytes Enhances Glioblastoma Tumorigenicity**

251 citations

Nature Cancer · 4, 648-664

https://exaly.com/article/163259271

06 **Tumor Treating Fields Alter the Kinomic Landscape in Glioblastoma Revealing Therapeutic Vulnerabilities**

6 citations

Cells · 12, 2171

https://exaly.com/article/167373895

07 **Breaking the Feed Forward Inflammatory Cytokine Loop in the Tumor Microenvironment of PDGFB-Driven Glioblastomas**

10 citations

Journal of Clinical Investigation

https://exaly.com/article/172695385

08 **Carmofur Prevents Cell Cycle Progression by Reducing E2F8 Transcription in Temozolomide-Resistant Glioblastoma Cells**

13 citations

Cell Death Discovery · 9, 1-9

https://exaly.com/article/173397568

Ordered by publication year, newest first

2022

09 **Metastatic Human Hepatoblastoma Cells Exhibit Enhanced Tumorigenicity, Invasiveness and a Stem Cell-Like Phenotype** — 9 citations

Journal of Pediatric Surgery · 57, 1018-1025

https://exaly.com/article/134477997

10 **Regulation of NKG2D Stress Ligands and Its Relevance in Cancer Progression** — 57 citations

Cancers · 14, 2339

https://exaly.com/article/145312128

11 **Targeting Acid Ceramidase Inhibits Glioblastoma Cell Migration Through Decreased AKT Signaling** — 19 citations

Cells · 11, 1873

https://exaly.com/article/148411515

12 **ST6Gal1: Oncogenic Signaling Pathways and Targets** — 51 citations

Frontiers in Molecular Biosciences · 9, 962908

https://exaly.com/article/154768062

13 **Protein Kinase D1 Signaling in Cancer Stem Cells With Epithelial-Mesenchymal Plasticity** — 9 citations

Cells · 11, 3885

https://exaly.com/article/158016215

2021

14 **Glioma Stem Cells and Their Roles Within the Hypoxic Tumor Microenvironment** — 203 citations

Theranostics · 11, 665-683

https://exaly.com/article/77997083

15 **A Role for GLUT3 in Glioblastoma Cell Invasion That Is Not Recapitulated by GLUT1** — 36 citations

Cell Adhesion and Migration · 15, 101-115

https://exaly.com/article/78873966

16 **Novel Dopamine Receptor 3 Antagonists Inhibit the Growth of Primary and Temozolomide Resistant Glioblastoma Cells** — 17 citations

PLoS ONE · 16, e0250649

https://exaly.com/article/80377099

17 **Reactive Oxygen Species Produced by Altered Tumor Metabolism Impacts Cancer Stem Cell Maintenance** — 101 citations

Redox Biology · 44, 101953

https://exaly.com/article/81768730

Ordered by publication year, newest first

2021 / continued

18 Fine-Tuned Repression of Drp1-Driven Mitochondrial Fission Primes a 'Stem/Progenitor-Like State' to Support Neoplastic Transformation. 14 citations
ELife
https://exaly.com/article/82359509

19 Author Response: Fine-Tuned Repression of Drp1-Driven Mitochondrial Fission Primes a ‘Stem/Progenitor-Like State’ to Support Neoplastic Transformation 0 citations
Journal unavailable
https://exaly.com/article/90950085

20 Metastatic Hepatoblastoma Cells Exhibit a Distinct Cancer Stem Cell-Like Phenotype 0 citations
Journal of the American College of Surgeons · 233, S179
https://exaly.com/article/120771929

2020

21 The Role of Metabolic Plasticity in Blood and Brain Stem Cell Pathophysiology 25 citations
Cancer Research · 80, 5-16
https://exaly.com/article/75361464

22 Sphingolipid Metabolism in Glioblastoma and Metastatic Brain Tumors: A Review of Sphingomyelinases and Sphingosine-1-Phosphate 57 citations
Biomolecules · 10, 1357
https://exaly.com/article/75461702

2019

23 Deletion of the RNA Regulator HuR in Tumor-Associated Microglia and Macrophages Stimulates Anti-Tumor Immunity and Attenuates Glioma Growth 40 citations
Glia · 67, 2424-2439
https://exaly.com/article/71911634

24 Sox2 Promotes Expression of the ST6Gal-I Glycosyltransferase in Ovarian Cancer Cells 45 citations
Journal of Ovarian Research · 12, 1-13
https://exaly.com/article/72294513

25 SOD2 Acetylation and Deacetylation: Another Tale of Jekyll and Hyde in Cancer 25 citations
Proceedings of the National Academy of Sciences of the United States of America · 116, 23376-23378
https://exaly.com/article/72441389

Ordered by publication year, newest first

2019 / continued

26 Chromodomain Helicase DNA-Binding Protein 7 Is Suppressed in the Perinecrotic/Ischemic Microenvironment and Is a Novel Regulator of Glioblastoma Angiogenesis
19 citations
Stem Cells · 37, 453-462
https://exaly.com/article/72470558

27 HPAanalyze: An R Package That Facilitates the Retrieval and Analysis of the Human Protein Atlas Data
62 citations
BMC Bioinformatics · 20, 1-11
https://exaly.com/article/72675718

28 BEERE: A Web Server for Biomedical Entity Expansion, Ranking and Explorations.
8 citations
Nucleic Acids Research · 47, W578-W586
https://exaly.com/article/73090105

29 Anti-Cancer Effects of the HuR Inhibitor, MS-444, in Malignant Glioma Cells
63 citations
Cancer Biology and Therapy · 20, 979-988
https://exaly.com/article/73266765

30 New Quantitative Approach Reveals Heterogeneity in Mitochondrial Structure–Function Relations in Tumor-Initiating Cells
20 citations
Journal of Cell Science
https://exaly.com/article/73473877

31 Recasting the Cancer Stem Cell Hypothesis: Unification Using a Continuum Model of Microenvironmental Forces
8 citations
Current Stem Cell Reports · 5, 22-30
https://exaly.com/article/73706168

2018

32 The ST6Gal-I Sialyltransferase Protects Tumor Cells Against Hypoxia by Enhancing HIF-1α Signaling
75 citations
Journal of Biological Chemistry · 293, 5659-5667
https://exaly.com/article/68801746

33 The Pro-Tumorigenic Effects of Metabolic Alterations in Glioblastoma Including Brain Tumor Initiating Cells
87 citations
Biochimica Et Biophysica Acta: Reviews on Cancer · 1869, 175-188
https://exaly.com/article/68995199

34 Reactive Species Balance via GTP Cyclohydrolase I Regulates Glioblastoma Growth and Tumor Initiating Cell Maintenance
28 citations
Neuro-Oncology · 20, 1055-1067
https://exaly.com/article/69080815

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2018 / continued

35 IGFBP6 Controls the Expansion of Chemoresistant Glioblastoma Through Paracrine IGF2/IGF-1R Signaling — 38 citations

Cell Communication and Signaling · 16, 1-14

https://exaly.com/article/70792828

36 Kinomic Profiling of Glioblastoma Cells Reveals PLCG1 as a Target in Restricted Glucose — 12 citations

Biomarker Research · 6, 1-9

https://exaly.com/article/71297752

37 UAB30, A Novel RXR Agonist, Decreases Tumorigenesis and Leptomeningeal Disease in Group 3 Medulloblastoma Patient-Derived Xenografts — 15 citations

Journal of Neuro-Oncology · 140, 209-224

https://exaly.com/article/71634228

38 Identification of Compounds That Decrease Glioblastoma Growth and Glucose Uptake in Vitro — 33 citations

ACS Chemical Biology · 13, 2048-2057

https://exaly.com/article/71735062

2017

39 Protein Kinase CK2 Is Important for the Function of Glioblastoma Brain Tumor Initiating Cells — 26 citations

Journal of Neuro-Oncology · 132, 219-229

https://exaly.com/article/66015834

40 The Arf Activator GBF1 Localizes to Plasma Membrane Sites Involved in Cell Adhesion and Motility — 7 citations

Cellular Logistics · 7, e1308900

https://exaly.com/article/66212453

41 NOS Expression and NO Function in Glioma and Implications for Patient Therapies — 60 citations

Antioxidants and Redox Signaling · 26, 986-999

https://exaly.com/article/67766641

42 Addition of Carbonic Anhydrase 9 Inhibitor SLC-0111 to Temozolomide Treatment Delays Glioblastoma Growth in Vivo — 110 citations

JCI Insight

https://exaly.com/article/86344306

43 Modeling Physiologic Microenvironments in Three-Dimensional Microtumors Maintains Brain Tumor Initiating Cells. — 3 citations

Journal of Cancer Stem Cell Research · 5, 1

https://exaly.com/article/87111703

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2017 / continued

44 **Abstract 1925: Modeling Physiologic Microenvironments in Three-Dimensional Microtumors Facilitates Brain Tumor Initiating Cell Maintenance**

Cancer Research · 77, 1925-1925

https://exaly.com/article/111648682

0 citations

45 **Abstract 171: Targeting the Tumor Microenvironment: Inhibition of Carbonic Anhydrase 9 Impedes Brain Tumor Initiating Cell Chemoresistance and Delays Glioblastoma Growth in Vivo**

Cancer Research · 77, 171-171

https://exaly.com/article/111682418

0 citations

2016

46 **Metabolic, Autophagic, and Mitophagic Activities in Cancer Initiation and Progression**

Biomedical Journal · 39, 98-106

https://exaly.com/article/63419653

25 citations

2015

47 **Kinome-Wide shRNA Screen Identifies the Receptor Tyrosine Kinase AXL as a Key Regulator for Mesenchymal Glioblastoma Stem-Like Cells**

Stem Cell Reports · 4, 899-913

https://exaly.com/article/61498759

49 citations

48 **Development of a Sox2 Reporter System Modeling Cellular Heterogeneity in Glioma.**

Neuro-Oncology · 17, 361-71

https://exaly.com/article/61802434

22 citations

49 **A New Mitochondrial Pool of Cyclin E, Regulated by Drp1, Is Linked to Cell-Density-Dependent Cell Proliferation**

Journal of Cell Science · 128, 4171-4182

https://exaly.com/article/62589949

40 citations

2014

50 **Microenvironmental Variables Must Influence Intrinsic Phenotypic Parameters of Cancer Stem Cells to Affect Tumourigenicity**

PLoS Computational Biology · 10, e1003433

https://exaly.com/article/57922221

33 citations

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2014 / continued

51 Glioma Cancer Stem Cells Secrete Gremlin1 to Promote Their Maintenance Within the Tumor Hierarchy
139 citations
Genes and Development · 28, 1085-1100
https://exaly.com/article/59601021

52 High-Throughput Flow Cytometry Screening Reveals a Role for Junctional Adhesion Molecule a as a Cancer Stem Cell Maintenance Factor
95 citations
Cell Reports · 6, 117-129
https://exaly.com/article/59799010

53 Method for Efficient Transduction of Cancer Stem Cells.
15 citations
Journal of Cancer Stem Cell Research · 2, 1
https://exaly.com/article/87111690

2013

54 Brain Tumor Initiating Cells Adapt to Restricted Nutrition Through Preferential Glucose Uptake
473 citations
Nature Neuroscience · 16, 1373-1382
https://exaly.com/article/54954862

55 Aptamer Identification of Brain Tumor–Initiating Cells
57 citations
Cancer Research · 73, 4923-4936
https://exaly.com/article/55051986

56 Microenvironmental Variables Need to Effect Intrinsic Phenotypic Parameters of Cancer Stem Cells to Affect Tumourigenicity
1 citations
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https://exaly.com/article/100847195

57 Microenvironmental Variables Need to Effect Intrinsic Phenotypic Parameters of Cancer Stem Cells to Affect Tumourigenicity
0 citations
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https://exaly.com/article/144261354

2012

58 Platelet-Derived Growth Factor Receptors Differentially Inform Intertumoral and Intratumoral Heterogeneity
117 citations
Genes and Development · 26, 1247-1262
https://exaly.com/article/52766950

59 Laminin Alpha 2 Enables Glioblastoma Stem Cell Growth
162 citations
Annals of Neurology · 72, 766-778
https://exaly.com/article/53190915

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2012 / continued

60 The Quest for Self-Identity: Not All Cancer Stem Cells Are the Same — 15 citations
Clinical Cancer Research · 18, 3495-3498
https://exaly.com/article/53562125

2011

61 Glioma Stem Cell Proliferation and Tumor Growth Are Promoted by Nitric Oxide Synthase-2 — 301 citations
Cell · 146, 53-66
https://exaly.com/article/50241339

62 Direct in Vivo Evidence for Tumor Propagation by Glioblastoma Cancer Stem Cells — 136 citations
PLoS ONE · 6, e24807
https://exaly.com/article/50427826

63 Glioma Stem Cell Maintenance: The Role of the Microenvironment — 81 citations
Current Pharmaceutical Design · 17, 2386-2401
https://exaly.com/article/50712253

64 Nonreceptor Tyrosine Kinase BMX Maintains Self-Renewal and Tumorigenic Potential of Glioblastoma Stem Cells by Activating STAT3 — 251 citations
Cancer Cell · 19, 498-511
https://exaly.com/article/51192057

65 Twisted Tango: Brain Tumor Neurovascular Interactions — 69 citations
Nature Neuroscience · 14, 1375-1381
https://exaly.com/article/51204750

66 Molecular Targeting of Neural Cancer Stem Cells: TTAGGG, You're It! — 4 citations
Clinical Cancer Research · 17, 3-5
https://exaly.com/article/52041375

67 The Cancer Stem Cell Paradigm — 0 citations
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https://exaly.com/article/97964032

2010

68 Notch Promotes Radioresistance of Glioma Stem Cells — 565 citations
Stem Cells · 28, 17-28
https://exaly.com/article/46284138

69 Targeting A20 Decreases Glioma Stem Cell Survival and Tumor Growth — 123 citations
PLoS Biology · 8, e1000319
https://exaly.com/article/49122256

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2010 / continued

70 Erythropoietin Receptor Signaling Through STAT3 Is Required for Glioma Stem Cell Maintenance
75 citations
Genes and Cancer · 1, 50-61
https://exaly.com/article/49183033

71 Integrin Alpha 6 Regulates Glioblastoma Stem Cells
651 citations
Cell Stem Cell · 6, 421-432
https://exaly.com/article/49553090

2009

72 The Hypoxic Microenvironment Maintains Glioblastoma Stem Cells and Promotes Reprogramming Towards a Cancer Stem Cell Phenotype
796 citations
Cell Cycle · 8, 3274-84
https://exaly.com/article/45383215

73 Turning Cancer Stem Cells Inside Out: An Exploration of Glioma Stem Cell Signaling Pathways
93 citations
Journal of Biological Chemistry · 284, 16705-16709
https://exaly.com/article/45814849

74 Hypoxia-Inducible Factors Regulate Tumorigenic Capacity of Glioma Stem Cells
1,333 citations
Cancer Cell · 15, 501-513
https://exaly.com/article/46016229

75 Targeting Interleukin 6 Signaling Suppresses Glioma Stem Cell Survival and Tumor Growth
315 citations
Stem Cells · 27, 2393-2404
https://exaly.com/article/46284058

2008

76 Brain Cancer Stem Cells Display Preferential Sensitivity to Akt Inhibition.
217 citations
Stem Cells · 26, 3027-36
https://exaly.com/article/43588090

77 Targeting Cancer Stem Cells Through L1CAM Suppresses Glioma Growth
409 citations
Cancer Research · 68, 6043-6048
https://exaly.com/article/44529585

78 C-Myc Is Required for Maintenance of Glioma Cancer Stem Cells
382 citations
PLoS ONE · 3, e3769
https://exaly.com/article/45137432

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2008 / continued

79 The Rationale for and Effects of Targeting TGF-β for Glioma Therapy
0 citations
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2007

80 The Combination of Novel Low Molecular Weight Inhibitors of RAF (LBT613) and Target of Rapamycin (RAD001) Decreases Glioma Proliferation and Invasion
42 citations
Molecular Cancer Therapeutics · 6, 2449-2457
https://exaly.com/article/41726739

81 A Novel Low-Molecular Weight Inhibitor of Focal Adhesion Kinase, TAE226, Inhibits Glioma Growth
169 citations
Molecular Carcinogenesis · 46, 488-496
https://exaly.com/article/42625959

2006

82 Glioma Stem Cells Promote Radioresistance by Preferential Activation of the DNA Damage Response
5,993 citations
Nature · 444, 756-760
https://exaly.com/article/40444574

83 Stem Cell–Like Glioma Cells Promote Tumor Angiogenesis Through Vascular Endothelial Growth Factor
1,270 citations
Cancer Research · 66, 7843-7848
https://exaly.com/article/41222276

2005

84 Loss of Phosphatase and Tensin Homologue Increases Transforming Growth Factor β–Mediated Invasion With Enhanced SMAD3 Transcriptional Activity
38 citations
Cancer Research · 65, 11276-11281
https://exaly.com/article/38974095

2004

85 Selective Deficiency of the “Bone-Related” Runx2-II Unexpectedly Preserves Osteoblast-Mediated Skeletogenesis
96 citations
Journal of Biological Chemistry · 279, 20307-20313
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2004 / continued

86 **SB-431542, a Small Molecule Transforming Growth Factor-β-Receptor Antagonist, Inhibits Human Glioma Cell Line Proliferation and Motility**

184 citations

Molecular Cancer Therapeutics · 3, 737-745

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Year unavailable

87 **Title unavailable**

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