

# M Sharon Stack

## List of Publications by Year in descending order

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120  
papers

7,546  
citations

53794

45  
h-index

60623

81  
g-index

123  
all docs

123  
docs citations

123  
times ranked

9379  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and evaluation of ActSeq: A targeted next-generation sequencing panel for clinical oncology use. PLoS ONE, 2022, 17, e0266914.	2.5	2
2	Metalloproteinases in Ovarian Cancer. International Journal of Molecular Sciences, 2021, 22, 3403.	4.1	35
3	In vivo selection of highly metastatic human ovarian cancer sublines reveals role for AMIGO2 in intra-peritoneal metastatic regulation. Cancer Letters, 2021, 503, 163-173.	7.2	11
4	Host Mesothelin Expression Increases Ovarian Cancer Metastasis in the Peritoneal Microenvironment. International Journal of Molecular Sciences, 2021, 22, 12443.	4.1	10
5	Ascites-induced compression alters the peritoneal microenvironment and promotes metastatic success in ovarian cancer. Scientific Reports, 2020, 10, 11913.	3.3	25
6	Lipid Regulatory Proteins as Potential Therapeutic Targets for Ovarian Cancer in Obese Women. Cancers, 2020, 12, 3469.	3.7	21
7	Large-Scale Image Analysis for Investigating Spatio-Temporal Changes in Nuclear DNA Damage Caused by Nitrogen Atmospheric Pressure Plasma Jets. International Journal of Molecular Sciences, 2020, 21, 4127.	4.1	6
8	Lysophosphatidic acid modulates ovarian cancer multicellular aggregate assembly and metastatic dissemination. Scientific Reports, 2020, 10, 10877.	3.3	7
9	Host Wnt5a Potentiates Microenvironmental Regulation of Ovarian Cancer Metastasis. Cancer Research, 2020, 80, 1156-1170.	0.9	31
10	Quantitative proteomic analysis of murine white adipose tissue for peritoneal cancer metastasis. Analytical and Bioanalytical Chemistry, 2018, 410, 1583-1594.	3.7	5
11	Methods for the visualization and analysis of extracellular matrix protein structure and degradation. Methods in Cell Biology, 2018, 143, 79-95.	1.1	34
12	Modeling the effect of ascites-induced compression on ovarian cancer multicellular aggregates. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	27
13	Epigenetic Targeting of Adipocytes Inhibits High-Grade Serous Ovarian Cancer Cell Migration and Invasion. Molecular Cancer Research, 2018, 16, 1226-1240.	3.4	17
14	Aging Increases Susceptibility to Ovarian Cancer Metastasis in Murine Allograft Models and Alters Immune Composition of Peritoneal Adipose Tissue. Neoplasia, 2018, 20, 621-631.	5.3	20
15	RNA-seq Reveals the Overexpression of IGSF9 in Endometrial Cancer. Journal of Oncology, 2018, 2018, 1-13.	1.3	12
16	With Great Age Comes Great Metastatic Ability: Ovarian Cancer and the Appeal of the Aging Peritoneal Microenvironment. Cancers, 2018, 10, 230.	3.7	27
17	Heterogeneous Cadherin Expression and Multicellular Aggregate Dynamics in Ovarian Cancer Dissemination. Neoplasia, 2017, 19, 549-563.	5.3	48
18	Multiparity activates interferon pathways in peritoneal adipose tissue and decreases susceptibility to ovarian cancer metastasis in a murine allograft model. Cancer Letters, 2017, 411, 74-81.	7.2	2

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19	Chemical Analysis of Morphological Changes in Lysophosphatidic Acid-Treated Ovarian Cancer Cells. <i>Scientific Reports</i> , 2017, 7, 15295.	3.3	12
20	Post-translational modification of the membrane type 1 matrix metalloproteinase (MT1-MMP) cytoplasmic tail impacts ovarian cancer multicellular aggregate dynamics. <i>Journal of Biological Chemistry</i> , 2017, 292, 13111-13121.	3.4	13
21	Complex Determinants of Epithelial: Mesenchymal Phenotypic Plasticity in Ovarian Cancer. <i>Cancers</i> , 2017, 9, 104.	3.7	73
22	Assessment of common somatic mutations of EGFR, KRAS, BRAF, NRAS in pulmonary non-small cell carcinoma using iPLEX <sup>®</sup> HS, a new highly sensitive assay for the MassARRAY <sup>®</sup> System. <i>PLoS ONE</i> , 2017, 12, e0183715.	2.5	15
23	Wnt5a Signaling in Cancer. <i>Cancers</i> , 2016, 8, 79.	3.7	182
24	Current Technologies and Recent Developments for Screening of HPV-Associated Cervical and Oropharyngeal Cancers. <i>Cancers</i> , 2016, 8, 85.	3.7	41
25	Quantitation of Intra-peritoneal Ovarian Cancer Metastasis. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	11
26	Protease-activated Receptor-2 (PAR-2)-mediated Nf- $\kappa$ B Activation Suppresses Inflammation-associated Tumor Suppressor MicroRNAs in Oral Squamous Cell Carcinoma. <i>Journal of Biological Chemistry</i> , 2016, 291, 6936-6945.	3.4	40
27	Integrin-linked kinase activity modulates the pro-metastatic behavior of ovarian cancer cells. <i>Oncotarget</i> , 2016, 7, 21968-21981.	1.8	23
28	Identification of a Human Papillomavirus <sup>®</sup> -Associated Oncogenic miRNA Panel in Human Oropharyngeal Squamous Cell Carcinoma Validated by Bioinformatics Analysis of The Cancer Genome Atlas. <i>American Journal of Pathology</i> , 2015, 185, 679-692.	3.8	49
29	Integrated, DC voltage-driven nucleic acid diagnostic platform for real sample analysis: Detection of oral cancer. <i>Talanta</i> , 2015, 145, 35-42.	5.5	30
30	Decrease of miR-146a is associated with the aggressiveness of human oral squamous cell carcinoma. <i>Archives of Oral Biology</i> , 2015, 60, 1416-1427.	1.8	33
31	Lysophosphatidic Acid Initiates Epithelial to Mesenchymal Transition and Induces $\beta$ -Catenin-mediated Transcription in Epithelial Ovarian Carcinoma. <i>Journal of Biological Chemistry</i> , 2015, 290, 22143-22154.	3.4	47
32	MicroRNA Profiles of HPV-Associated Oropharyngeal Squamous Cell Carcinoma (OPSCC). , 2015, , 133-152.		1
33	In vivo tumor growth of high-grade serous ovarian cancer cell lines. <i>Gynecologic Oncology</i> , 2015, 138, 372-377.	1.4	149
34	Obesity Contributes to Ovarian Cancer Metastatic Success through Increased Lipogenesis, Enhanced Vasculature, and Decreased Infiltration of M1 Macrophages. <i>Cancer Research</i> , 2015, 75, 5046-5057.	0.9	74
35	Matrix Metalloproteinases. , 2015, , 2673-2677.		0
36	3D Mapping of plasma effective areas via detection of cancer cell damage induced by atmospheric pressure plasma jets. <i>Journal of Physics: Conference Series</i> , 2014, 565, 012011.	0.4	2

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37	Correlation of X-Ray Computed Tomography with Quantitative Nuclear Magnetic Resonance Methods for Pre-Clinical Measurement of Adipose and Lean Tissues in Living Mice. <i>Sensors</i> , 2014, 14, 18526-18542.	3.8	23
38	Membrane-type I matrix metalloproteinase-dependent ectodomain shedding of mucin16/ CA-125 on ovarian cancer cells modulates adhesion and invasion of peritoneal mesothelium. <i>Biological Chemistry</i> , 2014, 395, 1221-1231.	2.5	36
39	Inhibitors of NF-kappaB reverse cellular invasion and target gene upregulation in an experimental model of aggressive oral squamous cell carcinoma. <i>Oral Oncology</i> , 2014, 50, 468-477.	1.5	18
40	An ion-exchange nanomembrane sensor for detection of nucleic acids using a surface charge inversion phenomenon. <i>Biosensors and Bioelectronics</i> , 2014, 60, 92-100.	10.1	61
41	DNA damage in oral cancer cells induced by nitrogen atmospheric pressure plasma jets. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	60
42	Matrix Rigidity Activates Wnt Signaling through Down-regulation of Dickkopf-1 Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 141-151.	3.4	42
43	The Cell Surface Glycoprotein CLUB Domain-containing Protein 1 (CDCP1) Contributes to Epidermal Growth Factor Receptor-mediated Cell Migration. <i>Journal of Biological Chemistry</i> , 2012, 287, 9792-9803.	3.4	36
44	Fluorescence In Situ Hybridization for MicroRNA Detection in Archived Oral Cancer Tissues. <i>Journal of Oncology</i> , 2012, 2012, 1-8.	1.3	25
45	Virology and molecular pathogenesis of HPV (human papillomavirus) associated oropharyngeal squamous cell carcinoma. <i>Biochemical Journal</i> , 2012, 443, 339-353.	3.7	60
46	3 Pathophysiology of Kallikrein-related Peptidases in Head and Neck Cancer. , 2012, , 45-60.		0
47	Lysophosphatidic Acid Disrupts Junctional Integrity and Epithelial Cohesion in Ovarian Cancer Cells. <i>Journal of Oncology</i> , 2012, 2012, 1-8.	1.3	22
48	Nonsteroidal antiinflammatory drugs and progestins synergistically enhance cell death in ovarian epithelial cells. <i>American Journal of Obstetrics and Gynecology</i> , 2012, 206, 253.e1-253.e9.	1.3	6
49	Diverse mechanisms for activation of Wnt signalling in the ovarian tumour microenvironment. <i>Biochemical Journal</i> , 2011, 437, 1-12.	3.7	83
50	Urinary-type plasminogen activator receptor (uPAR) modulates oral cancer cell behavior with alteration in p130cas. <i>Molecular and Cellular Biochemistry</i> , 2011, 357, 151-161.	3.1	12
51	Integrin Regulation of $\beta$ -Catenin Signaling in Ovarian Carcinoma. <i>Journal of Biological Chemistry</i> , 2011, 286, 23467-23475.	3.4	46
52	Kallikrein-5 Promotes Cleavage of Desmoglein-1 and Loss of Cell-Cell Cohesion in Oral Squamous Cell Carcinoma. <i>Journal of Biological Chemistry</i> , 2011, 286, 9127-9135.	3.4	47
53	Matrix Metalloproteinases. , 2011, , 2183-2187.		0
54	Masticatory Loading, Function, and Plasticity: A Microanatomical Analysis of Mammalian Circumorbital Soft Tissue Structures. <i>Anatomical Record</i> , 2010, 293, 642-650.	1.4	15

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55	Targeting the EGF Receptor for Ovarian Cancer Therapy. <i>Journal of Oncology</i> , 2010, 2010, 1-11.	1.3	53
56	Microenvironmental Regulation of Chemokine (C-X-C-Motif) Receptor 4 in Ovarian Carcinoma. <i>Molecular Cancer Research</i> , 2010, 8, 653-664.	3.4	50
57	Urinary-Type Plasminogen Activator Receptor/β3 Integrin Signaling, Altered Gene Expression, and Oral Tumor Progression. <i>Molecular Cancer Research</i> , 2010, 8, 145-158.	3.4	23
58	Integrins and Cancer. , 2010, , 509-529.		3
59	Molecules of cell adhesion and extracellular matrix proteolysis in oral squamous cell carcinoma. <i>Histology and Histopathology</i> , 2010, 25, 917-32.	0.7	11
60	Modulation of the Membrane Type 1 Matrix Metalloproteinase Cytoplasmic Tail Enhances Tumor Cell Invasion and Proliferation in Three-dimensional Collagen Matrices. <i>Journal of Biological Chemistry</i> , 2009, 284, 19791-19799.	3.4	45
61	Ovarian Cancer Cell Detachment and Multicellular Aggregate Formation Are Regulated by Membrane Type 1 Matrix Metalloproteinase: A Potential Role in I.p. Metastatic Dissemination. <i>Cancer Research</i> , 2009, 69, 7121-7129.	0.9	93
62	EGF-receptor regulation of matrix metalloproteinases in epithelial ovarian carcinoma. <i>Future Oncology</i> , 2009, 5, 323-338.	2.4	30
63	Epidermal Growth Factor Receptor-Mediated Membrane Type 1 Matrix Metalloproteinase Endocytosis Regulates the Transition between Invasive versus Expansive Growth of Ovarian Carcinoma Cells in Three-Dimensional Collagen. <i>Molecular Cancer Research</i> , 2009, 7, 809-820.	3.4	32
64	Expression of membrane type 1 matrix metalloproteinase (MMP-14) in epithelial ovarian cancer: High level expression in clear cell carcinoma. <i>Gynecologic Oncology</i> , 2009, 112, 319-324.	1.4	43
65	Downregulation of connective tissue growth factor by three-dimensional matrix enhances ovarian carcinoma cell invasion. <i>International Journal of Cancer</i> , 2009, 125, 816-825.	5.1	39
66	Microenvironmental Regulation of Ovarian Cancer Metastasis. <i>Cancer Treatment and Research</i> , 2009, 149, 319-334.	0.5	46
67	Activated Epidermal Growth Factor Receptor in Ovarian Cancer. <i>Cancer Treatment and Research</i> , 2009, 149, 203-226.	0.5	34
68	Multiple kallikrein (KLK 5, 7, 8, and 10) expression in squamous cell carcinoma of the oral cavity. <i>Histology and Histopathology</i> , 2009, 24, 197-207.	0.7	39
69	Phenotypic plasticity of neoplastic ovarian epithelium: unique cadherin profiles in tumor progression. <i>Clinical and Experimental Metastasis</i> , 2008, 25, 643-655.	3.3	163
70	Wilms tumor gene protein 1 is associated with ovarian cancer metastasis and modulates cell invasion. <i>Cancer</i> , 2008, 112, 1632-1641.	4.1	41
71	Motility-related actinin alpha-4 is associated with advanced and metastatic ovarian carcinoma. <i>Laboratory Investigation</i> , 2008, 88, 602-614.	3.7	52
72	SV40 early genes induce neoplastic properties in serous borderline ovarian tumor cells. <i>Gynecologic Oncology</i> , 2008, 111, 125-131.	1.4	6

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73	Membrane type 1-matrix metalloproteinase: Substrate diversity in pericellular proteolysis. Seminars in Cell and Developmental Biology, 2008, 19, 24-33.	5.0	125
74	Polypyrimidine Tract-binding Protein (PTB) Differentially Affects Malignancy in a Cell Line-dependent Manner. Journal of Biological Chemistry, 2008, 283, 20277-20287.	3.4	53
75	Matrix Metalloproteinase 9 Is a Mediator of Epidermal Growth Factor-Dependent E-Cadherin Loss in Ovarian Carcinoma Cells. Cancer Research, 2008, 68, 4606-4613.	0.9	168
76	Using "Mighty Mouse" to understand masticatory plasticity: myostatin-deficient mice and musculoskeletal function. Integrative and Comparative Biology, 2008, 48, 345-359.	2.0	29
77	Adaptive Plasticity in the Mammalian Masticatory Complex: You Are What, and How, You Eat. , 2008, , 293-328.		38
78	Lysophosphatidic Acid Down-Regulates Stress Fibers and Up-Regulates Pro-Matrix Metalloproteinase-2 Activation in Ovarian Cancer Cells. Molecular Cancer Research, 2007, 5, 121-131.	3.4	36
79	Microenvironmental Regulation of Membrane Type 1 Matrix Metalloproteinase Activity in Ovarian Carcinoma Cells via Collagen-induced EGR1 Expression. Journal of Biological Chemistry, 2007, 282, 4924-4931.	3.4	83
80	Engagement of Collagen-Binding Integrins Promotes Matrix Metalloproteinase-9-Dependent E-Cadherin Ectodomain Shedding in Ovarian Carcinoma Cells. Cancer Research, 2007, 67, 2030-2039.	0.9	209
81	Pushing the limit: masticatory stress and adaptive plasticity in mammalian craniomandibular joints. Journal of Experimental Biology, 2007, 210, 628-641.	1.7	88
82	Activation-coupled membrane-type 1 matrix metalloproteinase membrane trafficking. Biochemical Journal, 2007, 407, 171-177.	3.7	12
83	Urinary-type plasminogen activator (uPA) and its receptor (uPAR) in squamous cell carcinoma of the oral cavity. Biochemical Journal, 2007, 407, 153-159.	3.7	49
84	Multi-step pericellular proteolysis controls the transition from individual to collective cancer cell invasion. Nature Cell Biology, 2007, 9, 893-904.	10.3	888
85	Functional Relevance of Urinary-type Plasminogen Activator Receptor-1 Integrin Association in Proteinase Regulatory Pathways. Journal of Biological Chemistry, 2006, 281, 13021-13029.	3.4	52
86	Mesenchymal transformation in epithelial ovarian tumor cells expressing epidermal growth factor receptor variant III. Molecular Carcinogenesis, 2006, 45, 851-860.	2.7	28
87	Down-regulation of Integrin $\alpha 2$ Surface Expression by Mutant Epidermal Growth Factor Receptor (EGFRvIII) Induces Aberrant Cell Spreading and Focal Adhesion Formation. Cancer Research, 2005, 65, 9280-9286.	0.9	50
88	Cyclooxygenase-2 Functions as a Downstream Mediator of Lysophosphatidic Acid to Promote Aggressive Behavior in Ovarian Carcinoma Cells. Cancer Research, 2005, 65, 2234-2242.	0.9	105
89	Epidermal Growth Factor Receptor Inhibition Promotes Desmosome Assembly and Strengthens Intercellular Adhesion in Squamous Cell Carcinoma Cells. Journal of Biological Chemistry, 2004, 279, 37191-37200.	3.4	135
90	Membrane protease proteomics: Isotope-coded affinity tag MS identification of undescribed MT1-matrix metalloproteinase substrates. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6917-6922.	7.1	273

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91	Proinvasive Properties of Ovarian Cancer Ascites-Derived Membrane Vesicles. <i>Cancer Research</i> , 2004, 64, 7045-7049.	0.9	228
92	Calcium-induced Matrix Metalloproteinase 9 Gene Expression Is Differentially Regulated by ERK1/2 and p38 MAPK in Oral Keratinocytes and Oral Squamous Cell Carcinoma. <i>Journal of Biological Chemistry</i> , 2004, 279, 33139-33146.	3.4	49
93	Glycosylation Broadens the Substrate Profile of Membrane Type 1 Matrix Metalloproteinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 8278-8289.	3.4	79
94	Differential Regulation of Membrane Type 1-Matrix Metalloproteinase Activity by ERK 1/2- and p38 MAPK-modulated Tissue Inhibitor of Metalloproteinases 2 Expression Controls Transforming Growth Factor- $\beta$ 1-induced Pericellular Collagenolysis. <i>Journal of Biological Chemistry</i> , 2004, 279, 39042-39050.	3.4	130
95	Proteases, Extracellular Matrix, and Cancer. <i>American Journal of Pathology</i> , 2004, 164, 1131-1139.	3.8	202
96	Collagen Binding Properties of the Membrane Type-1 Matrix Metalloproteinase (MT1-MMP) Hemopexin C Domain. <i>Journal of Biological Chemistry</i> , 2002, 277, 39005-39014.	3.4	123
97	Analysis of matrix degradation. <i>Methods in Cell Biology</i> , 2002, 69, 195-205.	1.1	18
98	Calcium Regulation of Matrix Metalloproteinase-mediated Migration in Oral Squamous Cell Carcinoma Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 41480-41488.	3.4	49
99	Proteinase Suppression by E-cadherin-mediated Cell-Cell Attachment in Premalignant Oral Keratinocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 38159-38167.	3.4	47
100	Loss of adhesion-regulated proteinase production is correlated with invasive activity in oral squamous cell carcinoma. <i>Cancer</i> , 2002, 95, 2524-2533.	4.1	31
101	Critical Role of Lysophospholipids in the Pathophysiology, Diagnosis, and Management of Ovarian Cancer. , 2002, 107, 259-283.		90
102	Ovarian Cancer- Associated Proteinases. <i>Cancer Treatment and Research</i> , 2002, 107, 331-351.	0.5	24
103	Functional Interplay between Type I Collagen and Cell Surface Matrix Metalloproteinase Activity. <i>Journal of Biological Chemistry</i> , 2001, 276, 24833-24842.	3.4	151
104	Proteolytic modification of laminins: Functional consequences. <i>Microscopy Research and Technique</i> , 2000, 51, 238-246.	2.2	42
105	Spatial Regulation and Activity Modulation of Plasmin by High Affinity Binding to the G domain of the $\beta$ 3 Subunit of Laminin-5. <i>Journal of Biological Chemistry</i> , 2000, 275, 34887-34893.	3.4	38
106	Urinary-type Plasminogen Activator (uPA) Expression and uPA Receptor Localization Are Regulated by $\beta$ 3 Integrin in Oral Keratinocytes. <i>Journal of Biological Chemistry</i> , 2000, 275, 23869-23876.	3.4	73
107	Membrane associated matrix metalloproteinases in metastasis. <i>BioEssays</i> , 1999, 21, 940-949.	2.5	138
108	Angiostatin inhibits endothelial and melanoma cellular invasion by blocking matrix-enhanced plasminogen activation. <i>Biochemical Journal</i> , 1999, 340, 77-84.	3.7	101

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109	Autocrine regulation of growth stimulation in human epithelial ovarian carcinoma by serine-proteinase-catalysed release of the urinary-type-plasminogen-activator N-terminal fragment. <i>Biochemical Journal</i> , 1999, 341, 765-769.	3.7	15
110	Angiostatin inhibits endothelial and melanoma cellular invasion by blocking matrix-enhanced plasminogen activation. <i>Biochemical Journal</i> , 1999, 340, 77.	3.7	50
111	Autocrine regulation of growth stimulation in human epithelial ovarian carcinoma by serine-proteinase-catalysed release of the urinary-type-plasminogen-activator N-terminal fragment. <i>Biochemical Journal</i> , 1999, 341, 765.	3.7	7
112	Proteinase requirements of epidermal growth factor-induced ovarian cancer cell invasion. , 1998, 78, 331-337.		70
113	Intact Vitronectin Induces Matrix Metalloproteinase-2 and Tissue Inhibitor of Metalloproteinases-2 Expression and Enhanced Cellular Invasion by Melanoma Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 143-149.	3.4	115
114	Processing of Laminin-5 and Its Functional Consequences: Role of Plasmin and Tissue-type Plasminogen Activator. <i>Journal of Cell Biology</i> , 1998, 141, 255-265.	5.2	300
115	Metastatic Dissemination of Human Ovarian Epithelial Carcinoma Is Promoted by $\alpha 2 \beta 1$ -Integrin-Mediated Interaction with Type I Collagen. <i>Invasion &amp; Metastasis</i> , 1998, 18, 15-26.	0.5	75
116	Production of extracellular matrix-degrading proteinases by primary cultures of human epithelial ovarian carcinoma cells. , 1997, 80, 1457-1463.		86
117	Evidence for preferential adhesion of ovarian epithelial carcinoma cells to type I collagen mediated by the $\alpha 2 \beta 1$ integrin. , 1996, 67, 695-701.		100
118	Secretion of extracellular matrix-degrading proteinases is increased in epithelial ovarian carcinoma. <i>International Journal of Cancer</i> , 1994, 56, 552-559.	5.1	114
119	Comparison of Plasminogen Binding and Activation on Extracellular Matrices Produced by Vascular Smooth Muscle and Endothelial Cells. <i>FEBS Journal</i> , 1994, 226, 937-943.	0.2	17
120	Coordinate expression of urinary-type plasminogen activator and its receptor accompanies malignant transformation of the ovarian surface epithelium. <i>American Journal of Obstetrics and Gynecology</i> , 1994, 170, 1285-1296.	1.3	31