

Muriel Golzio

List of Publications by Year in descending order

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122
papers

5,830
citations

81900

39
h-index

76900

74
g-index

127
all docs

127
docs citations

127
times ranked

5874
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of cell membrane electropermeabilization: A minireview of our present (lack of ?) knowledge. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 270-280.	2.4	496
2	In vivo electrically mediated protein and gene transfer in murine melanoma. <i>Nature Biotechnology</i> , 1998, 16, 168-171.	17.5	393
3	Direct visualization at the single-cell level of electrically mediated gene delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1292-1297.	7.1	379
4	Adipocyte Exosomes Promote Melanoma Aggressiveness through Fatty Acid Oxidation: A Novel Mechanism Linking Obesity and Cancer. <i>Cancer Research</i> , 2016, 76, 4051-4057.	0.9	246
5	Overview of Carbon Nanotubes for Biomedical Applications. <i>Materials</i> , 2019, 12, 624.	2.9	237
6	Periprostatic adipocytes act as a driving force for prostate cancer progression in obesity. <i>Nature Communications</i> , 2016, 7, 10230.	12.8	206
7	Effect of electric field induced transmembrane potential on spheroidal cells: theory and experiment. <i>European Biophysics Journal</i> , 2003, 32, 519-528.	2.2	197
8	Sphingosine Kinase-1 as a Chemotherapy Sensor in Prostate Adenocarcinoma Cell and Mouse Models. <i>Cancer Research</i> , 2005, 65, 11667-11675.	0.9	183
9	Efficiency of High- and Low-Voltage Pulse Combinations for Gene Electrotransfer in Muscle, Liver, Tumor, and Skin. <i>Human Gene Therapy</i> , 2008, 19, 1261-1272.	2.7	145
10	FTY720 (Fingolimod) Sensitizes Prostate Cancer Cells to Radiotherapy by Inhibition of Sphingosine Kinase-1. <i>Cancer Research</i> , 2010, 70, 8651-8661.	0.9	134
11	Control by Osmotic Pressure of Voltage-Induced Permeabilization and Gene Transfer in Mammalian Cells. <i>Biophysical Journal</i> , 1998, 74, 3015-3022.	0.5	126
12	Direct visualization at the single-cell level of siRNA electrotransfer into cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10443-10447.	7.1	117
13	Electric field-responsive nanoparticles and electric fields: physical, chemical, biological mechanisms and therapeutic prospects. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 56-67.	13.7	113
14	Chemosensitizing effects of sphingosine kinase-1 inhibition in prostate cancer cell and animal models. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 1836-1845.	4.1	110
15	Electro-mediated gene transfer and expression are controlled by the life-time of DNA/membrane complex formation. <i>Journal of Gene Medicine</i> , 2010, 12, 117-125.	2.8	104
16	Inhibition of gene expression in mice muscle by in vivo electrically mediated siRNA delivery. <i>Gene Therapy</i> , 2005, 12, 246-251.	4.5	99
17	In vivo gene silencing in solid tumors by targeted electrically mediated siRNA delivery. <i>Gene Therapy</i> , 2007, 14, 752-759.	4.5	94
18	In vitro and in vivo electric field-mediated permeabilization, gene transfer, and expression. <i>Methods</i> , 2004, 33, 126-135.	3.8	92

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19	Electrically-Assisted Nucleic Acids Delivery to Tissues In Vivo: Where Do We Stand?. <i>Current Pharmaceutical Design</i> , 2006, 12, 3817-25.	1.9	88
20	Effect of electric field vectoriality on electrically mediated gene delivery in mammalian cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1665, 92-100.	2.6	86
21	Successful treatment of equine sarcoids with cisplatin electrochemotherapy: A retrospective study of 48 cases. <i>Equine Veterinary Journal</i> , 2012, 44, 214-220.	1.7	79
22	EFFICIENCY OF HIGH AND LOW VOLTAGE PULSE COMBINATIONS FOR GENE ELECTROTRANSFER IN MUSCLE, LIVER, TUMOR AND SKIN. <i>Human Gene Therapy</i> , 2008, 19, 081015093227032.	2.7	74
23	Hospicells (ascites-derived stromal cells) promote tumorigenicity and angiogenesis. <i>International Journal of Cancer</i> , 2010, 126, 2090-2101.	5.1	70
24	Cell synchronization effect on mammalian cell permeabilization and gene delivery by electric field. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1563, 23-28.	2.6	67
25	Control by ATP and ADP of voltage-induced mammalian-cell-membrane permeabilization, gene transfer and resulting expression. <i>FEBS Journal</i> , 1998, 254, 382-388.	0.2	66
26	The sphingosine kinase-1 survival pathway is a molecular target for the tumor-suppressive tea and wine polyphenols in prostate cancer. <i>FASEB Journal</i> , 2010, 24, 3882-3894.	0.5	66
27	Minicircle DNA electrotransfer for efficient tissue-targeted gene delivery. <i>Gene Therapy</i> , 2013, 20, 62-68.	4.5	62
28	Non invasive contact electrodes for in vivo localized cutaneous electropulsation and associated drug and nucleic acid delivery. <i>Journal of Controlled Release</i> , 2009, 134, 125-131.	9.9	61
29	Intravital microscopy at the single vessel level brings new insights of vascular modification mechanisms induced by electropermeabilization. <i>Journal of Controlled Release</i> , 2012, 163, 396-403.	9.9	61
30	Control by pulse parameters of DNA electrotransfer into solid tumors in mice. <i>Gene Therapy</i> , 2009, 16, 635-644.	4.5	59
31	New insights in the visualization of membrane permeabilization and DNA/membrane interaction of cells submitted to electric pulses. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 248-254.	2.4	53
32	In vivo restoration of RhoB expression leads to ovarian tumor regression. <i>Cancer Gene Therapy</i> , 2008, 15, 456-464.	4.6	52
33	Sphingosine Kinase-1 Is Central to Androgen-Regulated Prostate Cancer Growth and Survival. <i>PLoS ONE</i> , 2009, 4, e8048.	2.5	48
34	Tumor cells educate mesenchymal stromal cells to release chemoprotective and immunomodulatory factors. <i>Journal of Molecular Cell Biology</i> , 2020, 12, 202-215.	3.3	47
35	A novel antiangiogenic and vascular normalization therapy targeted against human CD160 receptor. <i>Journal of Experimental Medicine</i> , 2011, 208, 973-986.	8.5	46
36	Hyaluronidase and Collagenase Increase the Transfection Efficiency of Gene Electrotransfer in Various Murine Tumors. <i>Human Gene Therapy</i> , 2012, 23, 128-137.	2.7	46

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37	Anti-Cancer Potential of Two Plasma-Activated Liquids: Implication of Long-Lived Reactive Oxygen and Nitrogen Species. <i>Cancers</i> , 2020, 12, 721.	3.7	43
38	In Vivo Molecular Imaging and Histological Analysis of Changes Induced by Electric Pulses Used for Plasmid DNA Electrotransfer to the Skin: A Study in a Dorsal Window Chamber in Mice. <i>Journal of Membrane Biology</i> , 2012, 245, 545-554.	2.1	42
39	Time dependence of electric field effects on cell membranes. A review for a critical selection of pulse duration for therapeutical applications. <i>Radiology and Oncology</i> , 2008, 42, .	1.7	41
40	Increased permeability of blood vessels after reversible electroporation is facilitated by alterations in endothelial cell-to-cell junctions. <i>Journal of Controlled Release</i> , 2018, 276, 30-41.	9.9	41
41	Elucidation of in vitro cellular steps induced by antitumor treatment with plasma-activated medium. <i>Scientific Reports</i> , 2019, 9, 4866.	3.3	40
42	Cell and Animal Imaging of Electrically Mediated Gene Transfer. <i>DNA and Cell Biology</i> , 2003, 22, 777-783.	1.9	38
43	Inhibition of the GTPase Rac1 Mediates the Antimigratory Effects of Metformin in Prostate Cancer Cells. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 586-596.	4.1	38
44	Pulsed Electric Field Treatment Enhances the Cytotoxicity of Plasma-Activated Liquids in a Three-Dimensional Human Colorectal Cancer Cell Model. <i>Scientific Reports</i> , 2019, 9, 7583.	3.3	37
45	Neutralizing S1P inhibits intratumoral hypoxia, induces vascular remodelling and sensitizes to chemotherapy in prostate cancer. <i>Oncotarget</i> , 2015, 6, 13803-13821.	1.8	35
46	Electrical properties of double-wall carbon nanotubes nanocomposite hydrogels. <i>Carbon</i> , 2019, 146, 542-548.	10.3	34
47	Control by membrane order of voltage-induced permeabilization, loading and gene transfer in mammalian cells. <i>Bioelectrochemistry</i> , 2001, 53, 25-34.	4.6	32
48	Ovarian ascites-derived Hospicells promote angiogenesis via activation of macrophages. <i>Cancer Letters</i> , 2012, 326, 59-68.	7.2	32
49	Drug delivery by electropulsation: Recent developments in oncology. <i>International Journal of Pharmaceutics</i> , 2012, 423, 3-6.	5.2	31
50	Membrane disorder and phospholipid scrambling in electropermeabilized and viable cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1701-1709.	2.6	31
51	Optical imaging of in vivo gene expression: a critical assessment of the methodology and associated technologies. <i>Gene Therapy</i> , 2004, 11, S85-S91.	4.5	30
52	LNA-based Oligonucleotide Electrotransfer for miRNA Inhibition. <i>Molecular Therapy</i> , 2012, 20, 1590-1598.	8.2	30
53	Observations of the Mechanisms of Electromediated DNA Uptake - From Vesicles to Tissues. <i>Current Gene Therapy</i> , 2010, 10, 256-266.	2.0	29
54	Targeted electro-delivery of oligonucleotides for RNA interference: siRNA and anti-miR. <i>Advanced Drug Delivery Reviews</i> , 2015, 81, 161-168.	13.7	25

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55	Magnetic Silica-Coated Iron Oxide Nanochains as Photothermal Agents, Disrupting the Extracellular Matrix, and Eradicating Cancer Cells. <i>Cancers</i> , 2019, 11, 2040.	3.7	25
56	The Protease-Dependent Mesenchymal Migration of Tumor-Associated Macrophages as a Target in Cancer Immunotherapy. <i>Cancer Immunology Research</i> , 2018, 6, 1337-1351.	3.4	24
57	Intraoperative fluorescence imaging of peritoneal dissemination of ovarian carcinomas. A preclinical study. <i>Gynecologic Oncology</i> , 2011, 122, 155-162.	1.4	23
58	Electric Field-Induced Cell Membrane Permeabilization and Gene Transfer: Theory and Experiments. <i>Engineering in Life Sciences</i> , 2005, 5, 179-186.	3.6	22
59	Fluorescence imaging agents in cancerology. <i>Radiology and Oncology</i> , 2010, 44, 142-8.	1.7	21
60	A Hydrogel/Carbon Nanotube Needle-Free Device for Electrostimulated Skin Drug Delivery. <i>ChemPhysChem</i> , 2017, 18, 2715-2723.	2.1	21
61	Control by Low Levels of Calcium of Mammalian Cell Membrane Electroporation. <i>Journal of Membrane Biology</i> , 2018, 251, 221-228.	2.1	21
62	New anti angiogenesis developments through electro-immunization: Optimization by in vivo optical imaging of intradermal electrogenetransfer. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 137-142.	2.4	19
63	Pre-clinical investigation of the synergy effect of interleukin-12 gene-electro-transfer during partially irreversible electroporation against melanoma. , 2019, 7, 161.		19
64	In vivo imaging of tumor growth after electrochemotherapy with cisplatin. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 997-1002.	2.1	17
65	Long term expression of bicistronic vector driven by the FGF-1 IRES in mouse muscle. <i>BMC Biotechnology</i> , 2007, 7, 74.	3.3	17
66	New Insights in the Gene Electrotransfer Process: Evidence for the Involvement of the Plasmid DNA Topology. <i>Current Gene Therapy</i> , 2012, 12, 417-422.	2.0	17
67	Safe and efficient novel approach for non-invasive gene electrotransfer to skin. <i>Scientific Reports</i> , 2018, 8, 16833.	3.3	17
68	Direct Validation of Aptamers as Powerful Tools to Image Solid Tumor. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 217-225.	3.6	15
69	Electroporation-Induced Stress Response and Its Effect on Gene Electrotransfer Efficacy: <i>In Vivo</i> Imaging and Numerical Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2671-2683.	4.2	15
70	Long-lasting <i>In vivo</i> Gene Silencing by Electrotransfer of shRNA Expressing Plasmid. <i>Technology in Cancer Research and Treatment</i> , 2008, 7, 109-116.	1.9	14
71	Chemically Modified Oligonucleotide—Increased Stability Negatively Correlates with Its Efficacy Despite Efficient Electrotransfer. <i>Journal of Membrane Biology</i> , 2012, 245, 565-571.	2.1	14
72	A journey from the endothelium to the tumor tissue: distinct behavior between PEO-PCL micelles and polymersomes nanocarriers. <i>Drug Delivery</i> , 2018, 25, 1766-1778.	5.7	14

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73	In vitro and ex vivo electrically mediated permeabilization and gene transfer in murine melanoma. <i>Bioelectrochemistry</i> , 1998, 47, 129-134.	1.0	13
74	In Vivo Evaluation of a New Recombinant Hyaluronidase to Improve Gene Electro-Transfer Protocols for DNA-Based Drug Delivery against Cancer. <i>Cancers</i> , 2018, 10, 405.	3.7	13
75	Biodistribution and Biosafety of a Poly(Phosphorhydrazone) Dendrimer, an Anti-Inflammatory Drug-Candidate. <i>Biomolecules</i> , 2019, 9, 475.	4.0	13
76	Nucleic Acids Electro-transfer: From Bench to Bedside. <i>Current Drug Metabolism</i> , 2013, 14, 300-308.	1.2	13
77	Electrochemotherapy guided by intraoperative fluorescence imaging for the treatment of inoperable peritoneal micro-metastases. <i>Journal of Controlled Release</i> , 2016, 233, 81-87.	9.9	12
78	Increasing Uptake of Silica Nanoparticles with Electroporation: From Cellular Characterization to Potential Applications. <i>Materials</i> , 2019, 12, 179.	2.9	12
79	Targeted Gene Silencing into Solid Tumors with Electrically Mediated siRNA Delivery. <i>Methods in Molecular Biology</i> , 2009, 555, 15-27.	0.9	11
80	Fluorescence-guided surgery for cancer patients: a proof of concept study on human xenografts in mice and spontaneous tumors in pets. <i>Oncotarget</i> , 2017, 8, 109559-109574.	1.8	11
81	Factors Controlling Electroporation of Cell Membranes. <i>Technology in Cancer Research and Treatment</i> , 2002, 1, 319-327.	1.9	10
82	Silica-Based Nanoparticles as Bifunctional and Bimodal Imaging Contrast Agents. <i>ChemPlusChem</i> , 2017, 82, 770-777.	2.8	9
83	A nanosecond pulsed electric field (nsPEF) can affect membrane permeabilization and cellular viability in a 3D spheroids tumor model. <i>Bioelectrochemistry</i> , 2021, 141, 107839.	4.6	9
84	Transgene expression of transfected supercoiled plasmid DNA concatemers in mammalian cells. <i>Journal of Gene Medicine</i> , 2009, 11, 1071-1073.	2.8	8
85	Gene electrotransfer: from biophysical mechanisms to in vivo applications. <i>Biophysical Reviews</i> , 2009, 1, 177-184.	3.2	8
86	Transdermal Delivery of Macromolecules Using Two-in-One Nanocomposite Device for Skin Electroporation. <i>Pharmaceutics</i> , 2021, 13, 1805.	4.5	8
87	Electrotransfer of RNAi-based oligonucleotides for oncology. <i>Anticancer Research</i> , 2011, 31, 4083-9.	1.1	8
88	Spectral degree of linear polarization of light from healthy skin and melanoma. <i>Optics Express</i> , 2015, 23, 13605.	3.4	7
89	Development of a near infrared protein nanoprobe targeting Thomsen-Friedenreich antigen for intraoperative detection of submillimeter nodules in an ovarian peritoneal carcinomatosis mouse model. <i>Biomaterials</i> , 2020, 241, 119908.	11.4	7
90	Visualization of Nonspecific Antitumor Effectiveness and Vascular Effects of Gene Electro-Transfer to Tumors. <i>Current Gene Therapy</i> , 2016, 16, 90-97.	2.0	7

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91	Tracking in vitro and in vivo siRNA electrotransfer in tumor cells. Journal of Rnai and Gene Silencing, 2008, 4, 281-8.	1.2	7
92	Optical In Vivo Imaging of Electrically Mediated Delivery of siRNA into Muscle for Gene Function Analysis. Methods in Molecular Biology, 2008, 423, 279-287.	0.9	6
93	shRNA-Mediated Gene Knockdown in Skeletal Muscle. Methods in Molecular Biology, 2012, 798, 491-501.	0.9	6
94	In Vitro Delivery of Drugs and Other Molecules to Cells. , 2000, 37, 83-97.		5
95	A Double-Pulse Approach For Electrotransfection. Journal of Membrane Biology, 2014, 247, 1253-1258.	2.1	5
96	Evaluations of Acute and Sub-Acute Biological Effects of Narrowband and Moderate-Band High Power Electromagnetic Waves on Cellular Spheroids. Scientific Reports, 2019, 9, 15324.	3.3	5
97	siRNA Delivery via Electropulsation: A Review of the Basic Processes. Methods in Molecular Biology, 2014, 1121, 81-98.	0.9	4
98	Noninvasive Gene Electrotransfer in Skin. Human Gene Therapy Methods, 2019, 30, 17-22.	2.1	4
99	Electric Field Based Therapies in Cancer Treatment. Cancers, 2020, 12, 3420.	3.7	4
100	Electropermeabilization of the Cell Membrane. , 2014, , 773-782.		4
101	Electrochemotherapy of equids cutaneous tumors: a 57 case retrospective study 1999-2005. , 2007, , 610-613.		4
102	Sub-cellular temporal and spatial distribution of electrotransferred LNA/DNA oligomer. Journal of Rnai and Gene Silencing, 2013, 9, 479-85.	1.2	4
103	Direct assay of electropermeabilization in a 2D pseudo tissue. Physical Chemistry Chemical Physics, 2010, 12, 14670.	2.8	3
104	High power electromagnetic pulse applicators for evaluation of biological effects induced by electromagnetic radiation waves. RSC Advances, 2018, 8, 16319-16329.	3.6	3
105	Cyclin B1 knockdown mediated by clinically approved pulsed electric fields siRNA delivery induces tumor regression in murine melanoma. International Journal of Pharmaceutics, 2020, 573, 118732.	5.2	3
106	Gene electrotransfer: from biophysical mechanisms to in vivo applications. Biophysical Reviews, 2009, 1, 185-191.	3.2	2
107	Electrodes for <i>in vivo</i> localised subcutaneous electropulsation and associated drug and nucleic acid delivery. Expert Opinion on Drug Delivery, 2009, 6, 1323-1331.	5.0	2
108	Delivery of RNAi-Based Oligonucleotides by Electropermeabilization. Pharmaceuticals, 2013, 6, 510-521.	3.8	2

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109	High Power Electromagnetic Waves Exposure of Healthy and Tumor Bearing Mice: Assessment of Effects on Mice Growth, Behavior, Tumor Growth, and Vessel Permeabilization. International Journal of Molecular Sciences, 2021, 22, 8516.	4.1	2
110	Transfer of small interfering RNA by electropermeabilization in tumor spheroids. Bioelectrochemistry, 2021, 141, 107848.	4.6	2
111	Direct Imaging of siRNA Electrotransfer at the Single-Cell Level. Methods in Molecular Biology, 2014, 1121, 121-130.	0.9	2
112	Equine Cutaneous Tumors Treatment by Electro-chemo-immuno-geno-therapy. , 2007, , 630-630.		2
113	Fluorescence Imaging in Cancerology. Current Molecular Imaging, 2013, 2, 3-17.	0.7	1
114	Metformin targets the GTPase Rac1 to inhibit prostate cancer cell migration. Cancer & Metabolism, 2014, 2, O24.	5.0	1
115	Nucleic Acid Electrotransfer in Mammalian Cells: Mechanistic Description. , 2017, , 323-336.		1
116	How Imaging Membrane and Cell Processes Involved in Electropermeabilization Can Improve Its Development in Cell Biology and in Clinics. Advances in Anatomy, Embryology and Cell Biology, 2017, 227, 107-118.	1.6	1
117	CHEMOSENSITIZING EFFECT OF SPHINGOSINE KINASE-1 INHIBITION IN PROSTATE CANCER CELL AND ANIMAL MODELS. Journal of Urology, 2008, 179, 423-424.	0.4	0
118	Control by Calcium of mammalian cell membrane electropermeabilization. Biophysical Journal, 2009, 96, 361a.	0.5	0
119	Nucleic Acid Electrotransfer in Mammalian Cells: Mechanistic Description. , 2016, , 1-14.		0
120	Abstract 4826: A therapeutic sphingosine 1-phosphate antibody improves intratumoral oxygenation and sensitizes to chemotherapy in prostate cancer animal model. , 2012, , .		0
121	Abstract 5119: Mechanisms associated with blood flow modifying effects of electric pulses used for electrochemotherapy on normal and tumor blood vessels. , 2015, , .		0
122	Imaging of Electrotransferred siRNA. Methods in Molecular Biology, 2016, 1372, 89-97.	0.9	0