Muriel Golzio

List of Publications by Year
in descending order

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	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
2	Transfer of small interfering RNA by electropermeabilization in tumor spheroids. Bioelectrochemistry, 2021, 141, 107848.	4.6	2
3	A nanosecond pulsed electric field (nsPEF) can affect membrane permeabilization and cellular viability in a 3D spheroids tumor model. Bioelectrochemistry, 2021, 141, 107839.	4.6	9
4	Transdermal Delivery of Macromolecules Using Two-in-One Nanocomposite Device for Skin Electroporation. Pharmaceutics, 2021, 13, 1805.	4.5	8
5	Tumor cells educate mesenchymal stromal cells to release chemoprotective and immunomodulatory factors. Journal of Molecular Cell Biology, 2020, 12, 202-215.	3.3	47
6	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
7	Electric Field Based Therapies in Cancer Treatment. Cancers, 2020, 12, 3420.	3.7	4
8	Anti-Cancer Potential of Two Plasma-Activated Liquids: Implication of Long-Lived Reactive Oxygen and Nitrogen Species. Cancers, 2020, 12, 721.	3.7	43
9	Development of a near infrared protein nanoprobe targeting Thomsen-Friedenreich antigen for intraoperative detection of submillimeter nodules in an ovarian peritoneal carcinomatosis mouse model. Biomaterials, 2020, 241, 119908.	11.4	7
10	Pre-clinical investigation of the synergy effect of interleukin-12 gene-electro-transfer during partially irreversible electropermeabilization against melanoma. , 2019, 7, 161.		19
11	Biodistribution and Biosafety of a Poly(Phosphorhydrazone) Dendrimer, an Anti-Inflammatory Drug-Candidate. Biomolecules, 2019, 9, 475.	4.0	13
12	Electroporation-Induced Stress Response and Its Effect on Gene Electrotransfer Efficacy: In Vivo Imaging and Numerical Modeling. IEEE Transactions on Biomedical Engineering, 2019, 66, 2671-2683.	4.2	15
13	Electrical properties of double-wall carbon nanotubes nanocomposite hydrogels. Carbon, 2019, 146, 542-548.	10.3	34
14	Increasing Uptake of Silica Nanoparticles with Electroporation: From Cellular Characterization to Potential Applications. Materials, 2019, 12, 179.	2.9	12
15	Pulsed Electric Field Treatment Enhances the Cytotoxicity of Plasma-Activated Liquids in a Three-Dimensional Human Colorectal Cancer Cell Model. Scientific Reports, 2019, 9, 7583.	3.3	37
16	Elucidation of in vitro cellular steps induced by antitumor treatment with plasma-activated medium. Scientific Reports, 2019, 9, 4866.	3.3	40
17	Overview of Carbon Nanotubes for Biomedical Applications. Materials, 2019, 12, 624.	2.9	237
18	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

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19	Magnetic Silica-Coated Iron Oxide Nanochains as Photothermal Agents, Disrupting the Extracellular Matrix, and Eradicating Cancer Cells. Cancers, 2019, 11, 2040.	3.7	25
20	Electric field-responsive nanoparticles and electric fields: physical, chemical, biological mechanisms and therapeutic prospects. Advanced Drug Delivery Reviews, 2019, 138, 56-67.	13.7	113
21	Noninvasive Gene Electrotransfer in Skin. Human Gene Therapy Methods, 2019, 30, 17-22.	2.1	4
22	Increased permeability of blood vessels after reversible electroporation is facilitated by alterations in endothelial cell-to-cell junctions. Journal of Controlled Release, 2018, 276, 30-41.	9.9	41
23	Control by Low Levels of Calcium of Mammalian Cell Membrane Electropermeabilization. Journal of Membrane Biology, 2018, 251, 221-228.	2.1	21
24	Safe and efficient novel approach for non-invasive gene electrotransfer to skin. Scientific Reports, 2018, 8, 16833.	3.3	17
25	A journey from the endothelium to the tumor tissue: distinct behavior between PEO-PCL micelles and polymersomes nanocarriers. Drug Delivery, 2018, 25, 1766-1778.	5.7	14
26	In Vivo Evaluation of a New Recombinant Hyaluronidase to Improve Gene Electro-Transfer Protocols for DNA-Based Drug Delivery against Cancer. Cancers, 2018, 10, 405.	3.7	13
27	The Protease-Dependent Mesenchymal Migration of Tumor-Associated Macrophages as a Target in Cancer Immunotherapy. Cancer Immunology Research, 2018, 6, 1337-1351.	3.4	24
28	High power electromagnetic pulse applicators for evaluation of biological effects induced by electromagnetic radiation waves. RSC Advances, 2018, 8, 16319-16329.	3.6	3
29	Silicaâ€Based Nanoparticles as Bifunctional and Bimodal Imaging Contrast Agents. ChemPlusChem, 2017, 82, 770-777.	2.8	9
30	Nucleic Acid Electrotransfer in Mammalian Cells: Mechanistic Description. , 2017, , 323-336.		1
31	A Hydrogel/Carbonâ€Nanotube Needleâ€Free Device for Electrostimulated Skin Drug Delivery. ChemPhysChem, 2017, 18, 2715-2723.	2.1	21
32	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
33	Fluorescence-guided surgery for cancer patients: a proof of concept study on human xenografts in mice and spontaneous tumors in pets. Oncotarget, 2017, 8, 109559-109574.	1.8	11
34	Adipocyte Exosomes Promote Melanoma Aggressiveness through Fatty Acid Oxidation: A Novel Mechanism Linking Obesity and Cancer. Cancer Research, 2016, 76, 4051-4057.	0.9	246
35	Electrochemotherapy guided by intraoperative fluorescence imaging for the treatment of inoperable peritoneal micro-metastases. Journal of Controlled Release, 2016, 233, 81-87.	9.9	12
36	Nucleic Acid Electrotransfer in Mammalian Cells: Mechanistic Description. , 2016, , 1-14.		0

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37	Periprostatic adipocytes act as a driving force for prostate cancer progression in obesity. Nature Communications, 2016, 7, 10230.	12.8	206
38	Visualization of Nonspecific Antitumor Effectiveness and Vascular Effects of Gene Electro-Transfer to Tumors. Current Gene Therapy, 2016, 16, 90-97.	2.0	7
39	Imaging of Electrotransferred siRNA. Methods in Molecular Biology, 2016, 1372, 89-97.	0.9	0
40	Spectral degree of linear polarization of light from healthy skin and melanoma. Optics Express, 2015, 23, 13605.	3.4	7
41	Inhibition of the GTPase Rac1 Mediates the Antimigratory Effects of Metformin in Prostate Cancer Cells. Molecular Cancer Therapeutics, 2015, 14, 586-596.	4.1	38
42	Targeted electro-delivery of oligonucleotides for RNA interference: siRNA and antimiR. Advanced Drug Delivery Reviews, 2015, 81, 161-168.	13.7	25
43	Neutralizing S1P inhibits intratumoral hypoxia, induces vascular remodelling and sensitizes to chemotherapy in prostate cancer. Oncotarget, 2015, 6, 13803-13821.	1.8	35
44	Abstract 5119: Mechanisms associated with blood flow modifying effects of electric pulses used for electrochemotherapy on normal and tumor blood vessels. , 2015, , .		0
45	A Double-Pulse Approach For Electrotransfection. Journal of Membrane Biology, 2014, 247, 1253-1258.	2.1	5
46	siRNA Delivery via Electropulsation: A Review of the Basic Processes. Methods in Molecular Biology, 2014, 1121, 81-98.	0.9	4
47	Metformin targets the GTPase Rac1 to inhibit prostate cancer cell migration. Cancer & Metabolism, 2014, 2, O24.	5.0	1
48	Direct Validation of Aptamers as Powerful Tools to Image Solid Tumor. Nucleic Acid Therapeutics, 2014, 24, 217-225.	3.6	15
49	Membrane disorder and phospholipid scrambling in electropermeabilized and viable cells. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1701-1709.	2.6	31
50	Electropermeabilization of the Cell Membrane. , 2014, , 773-782.		4
51	Direct Imaging of siRNA Electrotransfer at the Single-Cell Level. Methods in Molecular Biology, 2014, 1121, 121-130.	0.9	2
52	Minicircle DNA electrotransfer for efficient tissue-targeted gene delivery. Gene Therapy, 2013, 20, 62-68.	4.5	62
53	Delivery of RNAi-Based Oligonucleotides by Electropermeabilization. Pharmaceuticals, 2013, 6, 510-521.	3.8	2
54	Fluorescence Imaging in Cancerology. Current Molecular Imaging, 2013, 2, 3-17.	0.7	1

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55	Nucleic Acids Electro-transfer: From Bench to Bedside. Current Drug Metabolism, 2013, 14, 300-308.	1.2	13
56	Sub-cellular temporal and spatial distribution of electrotransferred LNA/DNA oligomer. Journal of Rnai and Gene Silencing, 2013, 9, 479-85.	1.2	4
57	LNA-based Oligonucleotide Electrotransfer for miRNA Inhibition. Molecular Therapy, 2012, 20, 1590-1598.	8.2	30
58	Hyaluronidase and Collagenase Increase the Transfection Efficiency of Gene Electrotransfer in Various Murine Tumors. Human Gene Therapy, 2012, 23, 128-137.	2.7	46
59	New Insights in the Gene Electrotransfer Process: Evidence for the Involvement of the Plasmid DNA Topology. Current Gene Therapy, 2012, 12, 417-422.	2.0	17
60	Successful treatment of equine sarcoids with cisplatin electrochemotherapy: A retrospective study of 48 cases. Equine Veterinary Journal, 2012, 44, 214-220.	1.7	79
61	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. Journal of Membrane Biology, 2012, 245, 545-554.	2.1	42
62	Intravital microscopy at the single vessel level brings new insights of vascular modification mechanisms induced by electropermeabilization. Journal of Controlled Release, 2012, 163, 396-403.	9.9	61
63	Ovarian ascites-derived Hospicells promote angiogenesis via activation of macrophages. Cancer Letters, 2012, 326, 59-68.	7.2	32
64	Chemically Modified Oligonucleotideâ€“Increased Stability Negatively Correlates with Its Efficacy Despite Efficient Electrotransfer. Journal of Membrane Biology, 2012, 245, 565-571.	2.1	14
65	Drug delivery by electropulsation: Recent developments in oncology. International Journal of Pharmaceutics, 2012, 423, 3-6.	5.2	31
66	shRNA-Mediated Gene Knockdown in Skeletal Muscle. Methods in Molecular Biology, 2012, 798, 491-501.	0.9	6
67	Abstract 4826: A therapeutic sphingosine 1-phosphate antibody improves intratumoral oxygenation and sensitizes to chemotherapy in prostate cancer animal model. , 2012, , .		0
68	Intraoperative fluorescence imaging of peritoneal dissemination of ovarian carcinomas. A preclinical study. Gynecologic Oncology, 2011, 122, 155-162.	1.4	23
69	Direct visualization at the single-cell level of siRNA electrotransfer into cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10443-10447.	7.1	117
70	A novel antiangiogenic and vascular normalization therapy targeted against human CD160 receptor. Journal of Experimental Medicine, 2011, 208, 973-986.	8.5	46
71	Electrotransfer of RNAi-based oligonucleotides for oncology. Anticancer Research, 2011, 31, 4083-9.	1.1	8
72	Hospicells (ascitesâ€derived stromal cells) promote tumorigenicity and angiogenesis. International Journal of Cancer, 2010, 126, 2090-2101.	5.1	70

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73	Electroâ€mediated gene transfer and expression are controlled by the lifeâ€time of DNA/membrane complex formation. Journal of Gene Medicine, 2010, 12, 117-125.	2.8	104
74	The sphingosine kinaseâ€1 survival pathway is a molecular target for the tumorâ€suppressive tea and wine polyphenols in prostate cancer. FASEB Journal, 2010, 24, 3882-3894.	0.5	66
75	Fluorescence imaging agents in cancerology. Radiology and Oncology, 2010, 44, 142-8.	1.7	21
76	FTY720 (Fingolimod) Sensitizes Prostate Cancer Cells to Radiotherapy by Inhibition of Sphingosine Kinase-1. Cancer Research, 2010, 70, 8651-8661.	0.9	134
77	Direct assay of electropermeabilization in a 2D pseudo tissue. Physical Chemistry Chemical Physics, 2010, 12, 14670.	2.8	3
78	Observations of the Mechanisms of Electromediated DNA Uptake - From Vesicles to Tissues. Current Gene Therapy, 2010, 10, 256-266.	2.0	29
79	Non invasive contact electrodes for in vivo localized cutaneous electropulsation and associated drug and nucleic acid delivery. Journal of Controlled Release, 2009, 134, 125-131.	9.9	61
80	Transgene expression of transfected supercoiled plasmid DNA concatemers in mammalian cells. Journal of Gene Medicine, 2009, 11, 1071-1073.	2.8	8
81	Gene electrotransfer: from biophysical mechanisms to in vivo applications. Biophysical Reviews, 2009, 1, 185-191.	3.2	2
82	Gene electrotransfer: from biophysical mechanisms to in vivo applications. Biophysical Reviews, 2009, 1, 177-184.	3.2	8
83	Control by pulse parameters of DNA electrotransfer into solid tumors in mice. Gene Therapy, 2009, 16, 635-644.	4.5	59
84	Electrodes forin vivolocalised subcutaneous electropulsation and associated drug and nucleic acid delivery. Expert Opinion on Drug Delivery, 2009, 6, 1323-1331.	5.0	2
85	Control by Calcium of mammalian cell membrane electropermeabilization. Biophysical Journal, 2009, 96, 361a.	0.5	0
86	Targeted Gene Silencing into Solid Tumors with Electrically Mediated siRNA Delivery. Methods in Molecular Biology, 2009, 555, 15-27.	0.9	11
87	Sphingosine Kinase-1 Is Central to Androgen-Regulated Prostate Cancer Growth and Survival. PLoS ONE, 2009, 4, e8048.	2.5	48
88	In vivo restoration of RhoB expression leads to ovarian tumor regression. Cancer Gene Therapy, 2008, 15, 456-464.	4.6	52
89	CHEMOSENSITIZING EFFECT OF SPHINGOSINE KINASE-1 INHIBITION IN PROSTATE CANCER CELL AND ANIMAL MODELS. Journal of Urology, 2008, 179, 423-424.	0.4	0
90	Efficiency of High- and Low-Voltage Pulse Combinations for Gene Electrotransfer in Muscle, Liver, Tumor, and Skin. Human Gene Therapy, 2008, 19, 1261-1272.	2.7	145

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91	Long-lasting In vivo Gene Silencing by Electrotransfer of shRNA Expressing Plasmid. Technology in Cancer Research and Treatment, 2008, 7, 109-116.	1.9	14
92	Chemosensitizing effects of sphingosine kinase-1 inhibition in prostate cancer cell and animal models. Molecular Cancer Therapeutics, 2008, 7, 1836-1845.	4.1	110
93	Time dependence of electric field effects on cell membranes. A review for a critical selection of pulse duration for therapeutical applications. Radiology and Oncology, 2008, 42, .	1.7	41
94	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
95	EFFICIENCY OF HIGH AND LOW VOLTAGE PULSE COMBINATIONS FOR GENE ELECTROTRANSFER IN MUSCLE, LIVER, TUMOR AND SKIN. Human Gene Therapy, 2008, 19, 081015093227032.	2.7	74
96	Tracking in vitro and in vivo siRNA electrotransfer in tumor cells. Journal of Rnai and Gene Silencing, 2008, 4, 281-8.	1.2	7
97	New anti angiogenesis developments through electro-immunization: Optimization by in vivo optical imaging of intradermal electrogenetransfer. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 137-142.	2.4	19
98	Long term expression of bicistronic vector driven by the FGF-1 IRES in mouse muscle. BMC Biotechnology, 2007, 7, 74.	3.3	17
99	In vivo gene silencing in solid tumors by targeted electrically mediated siRNA delivery. Gene Therapy, 2007, 14, 752-759.	4.5	94
100	Electrochemotherapy of equids cutaneous tumors: a 57 case retrospective study 1999-2005. , 2007, , 610-613.		4
101	Equine Cutaneous Tumors Treatment by Electro-chemo-immuno-geno-therapy. , 2007, , 630-630.		2
102	In vivo imaging of tumor growth after electrochemotherapy with cisplatin. Biochemical and Biophysical Research Communications, 2006, 348, 997-1002.	2.1	17
103	Electrically-Assisted Nucleic Acids Delivery to Tissues In Vivo: Where Do We Stand?. Current Pharmaceutical Design, 2006, 12, 3817-25.	1.9	88
104	Electric Field-Induced Cell Membrane Permeabilization and Gene Transfer: Theory and Experiments. Engineering in Life Sciences, 2005, 5, 179-186.	3.6	22
105	Inhibition of gene expression in mice muscle by in vivo electrically mediated siRNA delivery. Gene Therapy, 2005, 12, 246-251.	4.5	99
106	Sphingosine Kinase-1 as a Chemotherapy Sensor in Prostate Adenocarcinoma Cell and Mouse Models. Cancer Research, 2005, 65, 11667-11675.	0.9	183
107	New insights in the visualization of membrane permeabilization and DNA/membrane interaction of cells submitted to electric pulses. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 248-254.	2.4	53
108	Mechanisms of cell membrane electropermeabilization: A minireview of our present (lack of ?) knowledge. Biochimica Et Biophysica Acta - General Subjects, 2005, 1724, 270-280.	2.4	496

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109	Optical imaging of in vivo gene expression: a critical assessment of the methodology and associated technologies. Gene Therapy, 2004, 11, S85-S91.	4.5	30
110	Effect of electric field vectoriality on electrically mediated gene delivery in mammalian cells. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1665, 92-100.	2.6	86
111	In vitro and in vivo electric field-mediated permeabilization, gene transfer, and expression. Methods, 2004, 33, 126-135.	3.8	92
112	Effect of electric field induced transmembrane potential on spheroidal cells: theory and experiment. European Biophysics Journal, 2003, 32, 519-528.	2.2	197
113	Cell and Animal Imaging of Electrically Mediated Gene Transfer. DNA and Cell Biology, 2003, 22, 777-783.	1.9	38
114	Factors Controlling Electropermeabilisation of Cell Membranes. Technology in Cancer Research and Treatment, 2002, 1, 319-327.	1.9	10
115	Direct visualization at the single-cell level of electrically mediated gene delivery. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1292-1297.	7.1	379
116	Cell synchronization effect on mammalian cell permeabilization and gene delivery by electric field. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1563, 23-28.	2.6	67
117	Control by membrane order of voltage-induced permeabilization, loading and gene transfer in mammalian cells. Bioelectrochemistry, 2001, 53, 25-34.	4.6	32
118	In Vitro Delivery of Drugs and Other Molecules to Cells. , 2000, 37, 83-97.		5
119	In vivo electrically mediated protein and gene transfer in murine melanoma. Nature Biotechnology, 1998, 16, 168-171.	17.5	393
120	Control by ATP and ADP of voltage-induced mammalian-cell-membrane permeabilization, gene transfer and resulting expression. FEBS Journal, 1998, 254, 382-388.	0.2	66
121	In vitro and ex vivo electrically mediated permeabilization and gene transfer in murine melanoma. Bioelectrochemistry, 1998, 47, 129-134.	1.0	13
122	Control by Osmotic Pressure of Voltage-Induced Permeabilization and Gene Transfer in Mammalian Cells. Biophysical Journal, 1998, 74, 3015-3022.	0.5	126