Hendrik Fuchs

List of Publications by Year
in descending order

93	2,218	201575 27	265120 42
papers	citations	h-index	g-index

97	97	97	2193
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transferrin-binding protein complex is the receptor for transferrin uptake in Trypanosoma brucei.. Journal of Cell Biology, 1995, 131, 1173-1182.	2.3	154
2	A Colorimetric Assay for the Quantitation of Free Adenine Applied to Determine the Enzymatic Activity of Ribosome-Inactivating Proteins. Analytical Biochemistry, 2002, 302, 114-122.	1.1	95
3	Immunotoxins Constructed with Ribosome-Inactivating Proteins and their Enhancers: A Lethal Cocktail with Tumor Specific Efficacy. Current Pharmaceutical Design, 2014, 20, 6584-6643.	0.9	86
4	Saponins in Tumor Therapy. Mini-Reviews in Medicinal Chemistry, 2008, 8, 575-584.	1.1	81
5	Targeted Enzyme Prodrug Therapies. Mini-Reviews in Medicinal Chemistry, 2010, 10, 887-904.	1.1	81
6	Saponins as Tool for Improved Targeted Tumor Therapies. Current Drug Targets, 2009, 10, 140-151.	1.0	72
7	Biocompatible Protein Nanocontainers for Controlled Drugs Release. ACS Nano, 2010, 4, 2838-2844.	7.3	68
8	Combined application of saponin and chimeric toxins drastically enhances the targeted cytotoxicity on tumor cells. Journal of Controlled Release, 2005, 106, 123-137.	4.8	61
9	Structural model of phospholipid-reconstituted human transferrin receptor derived by electron microscopy. Structure, 1998, 6, 1235-1243.	1.6	56
10	Saponins modulate the intracellular trafficking of protein toxins. Journal of Controlled Release, 2012, 164, 74-86.	4.8	55
11	Small Cleavable Adapters Enhance the Specific Cytotoxicity of a Humanized Immunotoxin Directed Against CD64-positive Cells. Journal of Immunotherapy, 2008, 31, 370-376.	1.2	50
12	The Saponin-Mediated Enhanced Uptake of Targeted Saporin-Based Drugs is Strongly Dependent on the Saponin Structure. Experimental Biology and Medicine, 2006, 231, 412-420.	1.1	47
13	Real-time analysis of membrane permeabilizing effects of oleanane saponins. Bioorganic and Medicinal Chemistry, 2013, 21, 2387-2395.	1.4	46
14	A cleavable adapter to reduce nonspecific cytotoxicity of recombinant immunotoxins. International Journal of Cancer, 2003, 103, 277-282.	2.3	44
15	Rasayana properties of Ayurvedic herbs: Are polysaccharides a major contributor. Carbohydrate Polymers, 2012, 87, 3-15.	5.1	42
16	Inhibition of Tumor Growth by Targeted Toxins in Mice is Dramatically Improved by Saponinum Album in a Synergistic Way. Journal of Immunotherapy, 2009, 32, 713-725.	1.2	41
17	Real time monitoring of the cell viability during treatment with tumor-targeted toxins and saponins using impedance measurement. Biosensors and Bioelectronics, 2012, 35, 503-506.	5.3	41
18	A cleavable molecular adapter reduces side effects and concomitantly enhances efficacy in tumor treatment by targeted toxins in mice. Journal of Controlled Release, 2007, 117, 342-350.	4.8	40

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19	The toxin component of targeted antiâ€tumor toxins determines their efficacy increase by saponins. Molecular Oncology, 2012, 6, 323-332.	2.1	40
20	Epidermal growth factor receptor expression affects the efficacy of the combined application of saponin and a targeted toxin on human cervical carcinoma cells. International Journal of Cancer, 2010, 127, 1453-1461.	2.3	39
21	Glycosylated Triterpenoids as Endosomal Escape Enhancers in Targeted Tumor Therapies. Biomedicines, 2017, 5, 14.	1.4	38
22	Targeted Tumor Therapies at a Glance. Current Drug Targets, 2009, 10, 89-93.	1.0	37
23	Shedding of the Transferrin Receptor Is Mediated Constitutively by an Integral Membrane Metalloprotease Sensitive to Tumor Necrosis Factor Î± Protease Inhibitor-2. Journal of Biological Chemistry, 2002, 277, 38494-38502.	1.6	35
24	Enhancement of cytotoxicity of lectins by Saponinum album. Toxicon, 2006, 47, 330-335.	0.8	35
25	A convenient method for saponin isolation in tumour therapy. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 713-718.	1.2	34
26	Augmenting the Efficacy of Immunotoxins and Other Targeted Protein Toxins by Endosomal Escape Enhancers. Toxins, 2016, 8, 200.	1.5	31
27	Targeted tumor therapy by epidermal growth factor appended toxin and purified saponin: An evaluation of toxicity and therapeutic potential in syngeneic tumor bearing mice. Molecular Oncology, 2013, 7, 475-483.	2.1	30
28	Expression of interleukin 15 in primary adult acute lymphoblastic leukemia. Cancer, 2010, 116, 387-392.	2.0	26
29	Functional Reconstitution of the Human Placental Transferrin Receptor into Phospholipid Bilayers Leads to Long Tubular Structures Proceeding from the Vesicle Surface. Biochemistry, 1995, 34, 6196-6207.	1.2	25
30	Direct calibration ELISA: a rapid method for the simplified determination of association constants of unlabeled biological molecules. Journal of Immunological Methods, 1995, 188, 197-208.	0.6	24
31	Dianthin-EGF is an effective tumor targeted toxin in combination with saponins in a xenograft model for colon carcinoma. Future Oncology, 2014, 10, 2161-2175.	1.1	24
32	Processing of the Human Transferrin Receptor at Distinct Positions within the Stalk Region by Neutrophil Elastase and Cathepsin G. Biological Chemistry, 2002, 383, 1011-20.	1.2	23
33	Soapwort saponins trigger clathrin-mediated endocytosis of saporin, a type I ribosome-inactivating protein. Chemico-Biological Interactions, 2008, 176, 204-211.	1.7	22
34	Triterpenoid saponin augmention of saporin-based immunotoxin cytotoxicity for human leukaemia and lymphoma cells is partially immunospecific and target molecule dependent. Immunopharmacology and Immunotoxicology, 2015, 37, 42-55.	1.1	22
35	The result of equilibrium-constant calculations strongly depends on the evaluation method used and on the type of experimental errors. Biochemical Journal, 2001, 359, 411-418.	1.7	21
36	Modified Trastuzumab and Cetuximab Mediate Efficient Toxin Delivery While Retaining Antibody-Dependent Cell-Mediated Cytotoxicity in Target Cells. Molecular Pharmaceutics, 2013, 10, 4347-4357.	2.3	21

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37	Diving through Membranes: Molecular Cunning to Enforce the Endosomal Escape of Antibody-Targeted Anti-Tumor Toxins. Antibodies, 2013, 2, 209-235.	1.2	21
38	The transferrin receptorâ€1 membrane stub undergoes intramembrane proteolysis by signal peptide peptidaseâ€like 2b. FEBS Journal, 2013, 280, 1653-1663.	2.2	20
39	Combinatorial approach to increase efficacy of Cetuximab, Panitumumab and Trastuzumab by dianthin conjugation and co-application of SO1861. Biochemical Pharmacology, 2015, 97, 247-255.	2.0	19
40	Release of the Soluble Transferrin Receptor Is Directly Regulated by Binding of Its Ligand Ferritransferrin. Journal of Biological Chemistry, 2006, 281, 3297-3304.	1.6	18
41	Enhancement of saporin cytotoxicity by Gypsophila saponinsâ€"More than stimulation of endocytosis. Chemico-Biological Interactions, 2009, 181, 424-429.	1.7	18
42	Creation and characterization of a xenograft model for human cervical cancer. Gynecologic Oncology, 2010, 118, 76-80.	0.6	18
43	The distribution of saponins in vivo affects their synergy with chimeric toxins against tumours expressing human epidermal growth factor receptors in mice. British Journal of Pharmacology, 2010, 159, 345-352.	2.7	17
44	Delayed allogeneic skin graft rejection in CD26-deficient mice. Cellular and Molecular Immunology, 2019, 16, 557-567.	4.8	17
45	The result of equilibrium-constant calculations strongly depends on the evaluation method used and on the type of experimental errors. Biochemical Journal, 2001, 359, 411.	1.7	16
46	Iodination significantly influences the binding of human transferrin to the transferrin receptor. Biochimica Et Biophysica Acta - General Subjects, 2002, 1570, 19-26.	1.1	16
47	A33scFv Green fluorescent protein, a recombinant single-chain fusion protein for tumor targeting. Protein Engineering, Design and Selection, 2007, 20, 583-590.	1.0	16
48	Chimeric toxins inhibit growth of primary oral squamous cell carcinoma cells. Cancer Biology and Therapy, 2008, 7, 237-242.	1.5	16
49	Enhancement of Saporin Toxicity Against U937 Cells byGypsophilaSaponins. Journal of Immunotoxicology, 2008, 5, 287-292.	0.9	16
50	A Simple Method for Isolation ofGypsophilaSaponins for the Combined Application of Targeted Toxins and Saponins in Tumor Therapy. Planta Medica, 2009, 75, 1421-1422.	0.7	15
51	Electrophoretic isolation of saponin fractions from Saponinum album and their evaluation in synergistically enhancing the receptorâ€specific cytotoxicity of targeted toxins. Electrophoresis, 2011, 32, 3085-3089.	1.3	15
52	Macromolecular interactions of triterpenoids and targeted toxins: Role of saponins charge. International Journal of Biological Macromolecules, 2013, 61, 285-294.	3.6	15
53	Dianthin-30 or gelonin versus monomethyl auristatin E, each configured with an anti-calcitonin receptor antibody, are differentially potent in vitro in high-grade glioma cell lines derived from glioblastoma. Cancer Immunology, Immunotherapy, 2017, 66, 1217-1228.	2.0	15
54	Structural and Functional Stability of the Mature Transferrin Receptor from Human Placenta. Archives of Biochemistry and Biophysics, 2001, 386, 79-88.	1.4	14

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55	The Endocytic Uptake Pathways of Targeted Toxins Are Influenced by Synergistically Acting Gypsophila Saponins. Molecular Pharmaceutics, 2011, 8, 2262-2272.	2.3	14
56	Quantification of Diphtheria Toxinâ€“Mediated ADP-Ribosylation in a Solid-Phase Assay. Clinical Chemistry, 2007, 53, 1676-1683.	1.5	13
57	High-speed countercurrent chromatographic recovery and off-line electrospray ionization mass spectrometry profiling of bisdesmodic saponins from Saponaria officinalis possessing synergistic toxicity enhancing properties on targeted antitumor toxins. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 955-956, 1-9.	1.2	13
58	Small structural differences of targeted anti-tumor toxins result in strong variation of protein expression. Protein Expression and Purification, 2013, 91, 54-60.	0.6	12
59	Production of bifunctional single-chain antibody-based fusion proteins in Pichia pastoris supernatants. Bioprocess and Biosystems Engineering, 2008, 31, 559-568.	1.7	11
60	Targeted dianthin is a powerful toxin to treat pancreatic carcinoma when applied in combination with the glycosylated triterpene <scp>SO</scp>1861. Molecular Oncology, 2017, 11, 1527-1543.	2.1	11
61	Dianthin and Its Potential in Targeted Tumor Therapies. Toxins, 2019, 11, 592.	1.5	11
62	Pseudomonas Exotoxin A Based Toxins Targeting Epidermal Growth Factor Receptor for the Treatment of Prostate Cancer. Toxins, 2020, 12, 753.	1.5	11
63	Influence of protein transduction domains on target-specific chimeric proteins. Biochemical and Biophysical Research Communications, 2005, 337, 602-609.	1.0	10
64	Saponins from Saponaria officinalis L. Augment the Efficacy of a Rituximab-Immunotoxin. Planta Medica, 2016, 82, 1525-1531.	0.7	10
65	A Closer Look at Protein Transduction Domains as a Tool in Drug Delivery. Current Nanoscience, 2005, 1, 117-124.	0.7	10
66	Enzymatic Modeling of the Oligosaccharide Chains of Glycoproteins Immobilized onto Polystyrene Surfaces. Analytical Biochemistry, 1993, 214, 195-204.	1.1	8
67	Involvement of CD26 in Differentiation and Functions of Th1 and Th17 Subpopulations of T Lymphocytes. Journal of Immunology Research, 2021, 2021, 1-13.	0.9	8
68	Human transferrin receptor is active and plasma membrane-targeted in yeast. FEMS Microbiology Letters, 1998, 160, 61-67.	0.7	7
69	Pyruvate kinase isoenzyme M2 is not of diagnostic relevance as a marker for oral cancer. Journal of Cranio-Maxillo-Facial Surgery, 2008, 36, 89-94.	0.7	7
70	Reporter Assay for Endo/Lysosomal Escape of Toxin-Based Therapeutics. Toxins, 2014, 6, 1644-1666.	1.5	7
71	Electrophoretic mobility as a tool to separate immune adjuvant saponins from Quillaja saponaria Molina. International Journal of Pharmaceutics, 2015, 487, 39-48.	2.6	7
72	Magnetic Nanoparticle-Based Dianthin Targeting for Controlled Drug Release Using the Endosomal Escape Enhancer SO1861. Nanomaterials, 2021, 11, 1057.	1.9	7

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73	A lysine-free mutant of epidermal growth factor as targeting moiety of a targeted toxin. Life Sciences, 2011, 88, 226-232.	2.0	6
74	Preclinical Studies of Saponins for Tumor Therapy. , 2014, , 272-302.		6
75	Mutational suppression of transferrin receptor shedding can be compensated by distinct metalloproteases acting on alternative sites. FEBS Letters, 2003, 536, 25-29.	1.3	5
76	Patents on Immunotoxins and Chimeric Toxins for the Treatment of Cancer. Recent Patents on Drug Delivery and Formulation, 2007, 1, 105-115.	2.1	4
77	Substantial changes of cellular iron homeostasis during megakaryocytic differentiation of K562 cells. Development Growth and Differentiation, 2009, 51, 555-565.	0.6	4
78	Targeted Tumor Therapy With a Fusion Protein of an Antiangiogenic Human Recombinant scFv and Yeast Cytosine Deaminase. Journal of Immunotherapy, 2012, 35, 570-578.	1.2	4
79	Suicide nanoplasmids coding for ribosome-inactivating proteins. European Journal of Pharmaceutical Sciences, 2022, 170, 106107.	1.9	4
80	Improved Therapy of B-Cell Non-Hodgkin Lymphoma by Obinutuzumab-Dianthin Conjugates in Combination with the Endosomal Escape Enhancer SO1861. Toxins, 2022, 14, 478.	1.5	4
81	Determination of Optimal Non-Denaturing Elution Conditions from Affinity Columns by a Solid-Phase Screen. BioTechniques, 2001, 31, 584-596.	0.8	3
82	Generation of a soluble and stable apoptin-EGF fusion protein, a targeted viral protein applicable for tumor therapy. Protein Expression and Purification, 2020, 175, 105687.	0.6	2
83	Probing Polymersomeâ€Protein and â€Cell Interactions: Influence of Different Endâ€Groups and Environments. Macromolecular Symposia, 2011, 309-310, 134-140.	0.4	1
84	Corrigendum to â€œCreation and characterization of a xenograft model for human cervical cancerâ€• [Gynecologic Oncology 118 (2010) 76â€“80]. Gynecologic Oncology, 2010, 119, 604.	0.6	0
85	Abstract 5624: Saponins fromGypsophila paniculata Lsignificantly potentiate the immunospecific cytotoxic activity of anti-CD19 and CD38 saporin-based immunotoxins for a human lymphoma cell line. , 2010, , .		0
86	Abstract 767:Gypsophilasaponins significantly augment the cytotoxicity of saporin-based anti-CD19, -CD22, -CD38 and -CD71 immunotoxins in human leukemia and lymphoma. , 2011, , .		0
87	Abstract A83: Combinatorial approach to drastically enhance the monoclonal antibody efficacy in targeted tumor therapy.. , 2013, , .		0
88	Ribosome-Inactivating Proteins. , 2014, , 1-5.		0
89	Saporin. , 2014, , 4128-4131.		0
90	Immunotoxins. , 2014, , 1-4.		0

#	Article	IF	Citations
91	Ribosome-Inactivating Proteins. , 2016, , 4083-4087.		0
92	Immunotoxins. , 2017, , 1-4.		0
93	Immunotoxins. , 2017, , 2239-2242.		0