Ulrich Hahn

List of Publications by Year
in descending order

125	5,033	117453	95083
papers	citations	34 h-index	68 g-index

130	130	130	4229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SDA and IDA â€“ Two aptamers to inhibit cancer cell adhesion. Biochimie, 2018, 145, 84-90.	1.3	8
2	DNA Aptamers for the Malignant Transformation Marker CD24. Nucleic Acid Therapeutics, 2018, 28, 326-334.	2.0	7
3	Size dependent targeted delivery of gold nanoparticles modified with the IL-6R-specific aptamer AIR-3A to IL-6R-carrying cells. Nanoscale, 2017, 9, 14486-14498.	2.8	19
4	Charomersâ€”Interleukin-6 Receptor Specific Aptamers for Cellular Internalization and Targeted Drug Delivery. International Journal of Molecular Sciences, 2017, 18, 2641.	1.8	12
5	Structure and target interaction of a G-quadruplex RNA-aptamer. RNA Biology, 2016, 13, 973-987.	1.5	20
6	Selection and Characterization of an Î±6Î²4 Integrin blocking DNA Aptamer. Molecular Therapy - Nucleic Acids, 2016, 5, e294.	2.3	31
7	Two variants of the major serine protease inhibitor from the sea anemone Stichodactyla helianthus, expressed in Pichia pastoris. Protein Expression and Purification, 2016, 123, 42-50.	0.6	9
8	SELEX of Cell-Specific RNA Aptamers. Methods in Molecular Biology, 2016, 1380, 21-32.	0.4	3
9	Tagging Glycoproteins with Fluorescently Labeled GDPâ€Fucoses by Using Î±1,3â€Fucosyltransferases. ChemBioChem, 2015, 16, 1919-1924.	1.3	0
10	Three-dimensional Structure of a Kunitz-type Inhibitor in Complex with an Elastase-like Enzyme. Journal of Biological Chemistry, 2015, 290, 14154-14165.	1.6	17
11	RAID3 - An interleukin-6 receptor-binding aptamer with post-selective modification-resistant affinity. RNA Biology, 2015, 12, 1043-1053.	1.5	23
12	Food Sensing: Aptamer-Based Trapping of Bacillus cereus Spores with Specific Detection via Real Time PCR in Milk. Journal of Agricultural and Food Chemistry, 2015, 63, 8050-8057.	2.4	34
13	Stabilized Interleukin-6 receptor binding RNA aptamers. RNA Biology, 2014, 11, 57-65.	1.5	31
14	Chlorin e6 Conjugated Interleukin-6 Receptor Aptamers Selectively Kill Target Cells Upon Irradiation. Molecular Therapy - Nucleic Acids, 2014, 3, e143.	2.3	44
15	An Aptamer Intrinsically Comprising 5â€Fluoroâ€2â€²â€deoxyuridine for Targeted Chemotherapy. Angewandte Chemie - International Edition, 2014, 53, 10541-10544.	7.2	49
16	Synthesis and analysis of potential Î±1,3-fucosyltransferase inhibitors. Bioorganic and Medicinal Chemistry, 2014, 22, 6430-6437.	1.4	5
17	Aptamers as Drug Delivery Vehicles. ChemMedChem, 2014, 9, 1998-2011.	1.6	50
18	Postpolymerization Modification Using Less Cytotoxic Activated Ester Polymers for the Synthesis of Biological Active Polymers. Biomacromolecules, 2014, 15, 3197-3205.	2.6	24

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19	Exploring RNA Oligomerization and Ligand Binding by Fluorescence Correlation Spectroscopy and Small Angle X-Ray Scattering. Methods in Molecular Biology, 2014, 1086, 321-334.	0.4	1
20	SDA, a DNA Aptamer Inhibiting E- and P-Selectin Mediated Adhesion of Cancer and Leukemia Cells, the First and Pivotal Step in Transendothelial Migration during Metastasis Formation. PLoS ONE, 2014, 9, e93173.	1.1	26
21	A Fluorescence Correlation Spectroscopy-Based Enzyme Assay for Human Dicer. Methods in Molecular Biology, 2014, 1095, 103-108.	0.4	0
22	Aptamers as Molecular Smugglers. , 2014, , 271-292.		0
23	Fluorescently Labeled Substrates for Monitoring Î±1,3â€Fucosyltransferaseâ€...IX Activity. Chemistry - A European Journal, 2013, 19, 17379-17390.	1.7	14
24	N-Glycosylations of human Î±1,3-fucosyltransferase IX are required for full enzyme activity. Glycobiology, 2013, 23, 559-567.	1.3	7
25	d(GGGT)₄and r(GGGU)₄are both HIV-1 inhibitors and interleukin-6 receptor aptamers. RNA Biology, 2013, 10, 216-227.	1.5	39
26	Interleukin-6 receptor specific RNA aptamers for cargo delivery into target cells. RNA Biology, 2012, 9, 67-80.	1.5	58
27	A fluorescence correlation spectroscopy-based enzyme assay for human Dicer. Biological Chemistry, 2012, 393, 187-193.	1.2	4
28	The small RNA RybA regulates key-genes in the biosynthesis of aromatic amino acids under peroxide stress inE. coli. RNA Biology, 2012, 9, 458-468.	1.5	34
29	Human Î±₂â€Macroglobulinâ€"Another Variation on the Venus Flytrap. Angewandte Chemie - International Edition, 2012, 51, 5045-5047.	7.2	21
30	Cell-Specific Aptamers as Emerging Therapeutics. Journal of Nucleic Acids, 2011, 2011, 1-18.	0.8	79
31	RNA dimerization monitored by fluorescence correlation spectroscopy. European Biophysics Journal, 2011, 40, 907-921.	1.2	7
32	Comparison of expression systems for human fucosyltransferase IX. European Journal of Cell Biology, 2010, 89, 35-38.	1.6	5
33	Characterization of a fluorophore binding RNA aptamer by fluorescence correlation spectroscopy and small angle X-ray scattering. Analytical Biochemistry, 2009, 389, 52-62.	1.1	21
34	Fluorophore Binding Aptamers as a Tool for RNA Visualization. Biophysical Journal, 2009, 96, 3703-3707.	0.2	17
35	Fluorescence Correlation Spectroscopy (FCS)-Based Characterisation of Aptamer Ligand Interaction. Methods in Molecular Biology, 2009, 535, 107-114.	0.4	3
36	Kinetics of TmHU binding to DNA as observed by optical tweezers. Microscopy Research and Technique, 2007, 70, 938-943.	1.2	7

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37	Aptamers to Small Molecules. , 2006, , 94-115.		4
38	Bivalent monoclonal IgY antibody formats by conversion of recombinant antibody fragments. Journal of Biotechnology, 2006, 124, 446-456.	1.9	14
39	Binding of TmHU to Single dsDNA as Observed by Optical Tweezers. Journal of Molecular Biology, 2006, 359, 769-776.	2.0	26
40	The elastic properties of single double-stranded DNA chains of different lengths as measured with optical tweezers. Colloid and Polymer Science, 2006, 284, 1325-1331.	1.0	42
41	Selection of Aptamers. , 2005, , 65-86.		2
42	Purine activity of RNase T1RV is further improved by substitution of Trp59 by tyrosine. Biochemical and Biophysical Research Communications, 2005, 336, 882-889.	1.0	1
43	Old Codons, New Amino Acids. Angewandte Chemie - International Edition, 2004, 43, 1190-1193.	7.2	6
44	Addressing the Challenge of Changing the Specificity of RNase T1 with Rational and Evolutionary Approaches. ChemBioChem, 2004, 5, 200-205.	1.3	4
45	Old Codons, New Amino Acids. ChemInform, 2004, 35, no.	0.1	0
46	RNase T1 Variant RV Cleaves Single-Stranded RNA after Purines Due to Specific Recognition by the Asn46 Side Chain Amide. Biochemistry, 2004, 43, 2854-2862.	1.2	6
47	Aptamers That Recognize the Lipid Moiety of the Antibiotic Moenomycin A. Biological Chemistry, 2003, 384, 1497-500.	1.2	16
48	Impact of Four 13C-Proline Isotope Labels on the Infrared Spectra of Ribonuclease T1. Journal of the American Chemical Society, 2002, 124, 6259-6264.	6.6	19
49	Molecular Characterization of the 56-kDa CYP153 from Acinetobacter sp. EB104. Biochemical and Biophysical Research Communications, 2001, 286, 652-658.	1.0	121
50	Highlight: Evolution in Vivo, in Vitro and in Machina. Biological Chemistry, 2001, 382, .	1.2	0
51	Epicatechin and its in vivo metabolite, 3â€²-O-methyl epicatechin, protect human fibroblasts from oxidative-stress-induced cell death involving caspase-3 activation. Biochemical Journal, 2001, 354, 493.	1.7	99
52	Aptamers that bind to the antibiotic moenomycin A. Bioorganic and Medicinal Chemistry, 2001, 9, 2557-2563.	1.4	54
53	Novel biomarkers of the metabolism of caffeic acid derivatives in vivo. Free Radical Biology and Medicine, 2001, 30, 1213-1222.	1.3	214
54	Fluorescence Correlation Spectroscopy as a New Method for the Investigation of Aptamer/Target Interactions. Biological Chemistry, 2001, 382, 479-81.	1.2	26

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55	RNase-Stable RNA: Conformational Parameters of the Nucleic Acid Backbone for Binding to RNase T1. Biological Chemistry, 2001, 382, 1007-17.	1.2	1
56	Ribonuclease Assays Utilizing Toluidine Blue Indicator Plates, Methylene Blue, or Fluorescence Correlation Spectroscopy. Methods in Enzymology, 2001, 341, 142-153.	0.4	8
57	Nano-electrospray mass spectrometry with a modified commercial IonSpray source. Rapid Communications in Mass Spectrometry, 2000, 14, 1307-1308.	0.7	4
58	Analysis of the RNase T1 Mediated Cleavage of an Immobilized Gapped Heteroduplex via Fluorescence Correlation Spectroscopy. Biological Chemistry, 2000, 381, 259-63.	1.2	3
59	Phage Display of RNase A and an Improved Method for Purification of Phages Displaying RNases. Biological Chemistry, 2000, 381, 179-81.	1.2	6
60	Resveratrol Is Absorbed in the Small Intestine as Resveratrol Glucuronide. Biochemical and Biophysical Research Communications, 2000, 272, 212-217.	1.0	221
61	Epicatechin and Catechin are O-Methylated and Glucuronidated in the Small Intestine. Biochemical and Biophysical Research Communications, 2000, 277, 507-512.	1.0	193
62	Ribonuclease T1 Cleaves RNA After Guanosines Within Single-Stranded Gaps of Any Length. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 1101-1109.	0.4	2
63	Modification of Ribonuclease T1 Specificity by Random Mutagenesis of the Substrate Binding Segment,. Biochemistry, 1999, 38, 1371-1376.	1.2	22
64	Structural analysis of an RNase T1 variant with an altered guanine binding segment. Journal of Molecular Biology, 1999, 294, 1231-1238.	2.0	7
65	Peptide Design Aided by Neural Networks:â€‰ Biological Activity of Artificial Signal Peptidase I Cleavage Sites. Biochemistry, 1998, 37, 3588-3593.	1.2	28
66	Reverse Action of Ribonuclease T1 Variants In ICE. Nucleosides & Nucleotides, 1998, 17, 1267-1274.	0.5	2
67	Ribonuclease T1 Is Active when Both Catalytic Histidines Are Replaced by Aspartate. Biological Chemistry, 1997, 378, 553-558.	1.2	5
68	Overproduction of Sac7d and Sac7e Reveals Only Sac7e to Be a DNA-Binding Protein with Ribonuclease Activity from the Extremophilic Archaeon Sulfolobus acidocaldarius. Biological Chemistry, 1997, 378, 545-51.	1.2	5
69	Display Of Ribonuclease T1 On The Surface Of Bacteriophage M13. Nucleosides & Nucleotides, 1997, 16, 727-732.	0.5	2
70	Ribonuclease T1 has different dimensions in the thermally and chemically denatured states: a dynamic light scattering study. FEBS Letters, 1997, 403, 245-248.	1.3	18
71	Conformation of thermally denatured RNase T1 with intact disulfide bonds: A study by small-angle X-ray scattering. BBA - Proteins and Proteomics, 1997, 1340, 235-244.	2.1	5
72	The Role of a Trans-Proline in the Folding Mechanism of Ribonuclease T1. FEBS Journal, 1996, 241, 516-524.	0.2	14

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73	Thermally induced hydrogen exchange processes in small proteins as seen by FTIR spectroscopy. , 1996, 24, 379-387.		32
74	A General Ribonuclease Assay Using Methylene Blue. Analytical Biochemistry, 1996, 240, 24-28.	1.1	49
75	Impact of point mutations and amino acid modifications on the structure and stability of peptides and proteins probed by FT-IR spectroscopy. Journal of Molecular Structure, 1995, 348, 5-8.	1.8	4
76	SaRD, A New Protein Isolated from the Extremophile Archaeon Sulfolobus acidocaldarius, Is a Thermostable Ribonuclease with DNA-Binding Properties. Biochemical and Biophysical Research Communications, 1995, 214, 646-652.	1.0	13
77	Destabilization of a Protein Helix by Electrostatic Interactions. Journal of Molecular Biology, 1995, 252, 133-143.	2.0	34
78	X-ray crystallographic and calorimetric studies of the effects of the mutation Trp59 Tyr in ribonuclease T1. FEBS Journal, 1994, 220, 527-534.	0.2	14
79	Extended Kinetic Analysis of Ribonuclease T1 Variants Leads to an Improved Scheme for the Reaction Mechanism. Biochemical and Biophysical Research Communications, 1994, 199, 213-219.	1.0	19
80	Impact of Point Mutations on the Structure and Thermal Stability of Ribonuclease T1 in Aqueous Solution Probed by Fourier Transform Infrared Spectroscopy. Biochemistry, 1994, 33, 10725-10730.	1.2	101
81	The complex between ribonuclease T1 and 3'GMP suggests geometry of enzymic reaction path. An X-ray study. FEBS Journal, 1993, 218, 1005-1012.	0.2	31
82	Stability and Folding Kinetics of Ribonuclease T1 are Strongly Altered by the Replacement of Cis-proline 39 with Alanine. Journal of Molecular Biology, 1993, 231, 897-912.	2.0	74
83	Secondary Structure and Temperature-induced Unfolding and Refolding of Ribonuclease T1 in Aqueous Solution. Journal of Molecular Biology, 1993, 232, 967-981.	2.0	151
84	Synthesis of the Bacillus subtilis histone-like DNA-binding protein HBsu in Escherichia coli and secretion into the periplasm. Gene, 1993, 124, 99-103.	1.0	2
85	Trp59 to Tyr substitution enhances the catalytic activity of RNase T1 and of the Tyr to Trp variants in positions 24, 42 and 45. Protein Engineering, Design and Selection, 1993, 6, 739-744.	1.0	12
86	The role of the preserved sequences of Dam methylase. Nucleic Acids Research, 1993, 21, 3183-3190.	6.5	31
87	Secondary Structure and Unfolding of Wild-Type Ribonuclease T1 and Mutants that Affect Enzyme Catalysis - A Fourier Transform Infrared Spectroscopic Study. , 1993, , 361-364.		0
88	Contribution of hydrogen bonding to the conformational stability of ribonuclease T1. Biochemistry, 1992, 31, 725-732.	1.2	303
89	Improving purification of recombinant ribonuclease T1. Journal of Biotechnology, 1992, 24, 189-194.	1.9	21
90	His92Ala mutation in ribonuclease T1 induces segmental flexibility. Journal of Molecular Biology, 1992, 224, 701-713.	2.0	17

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91	RNase T1 mutant Glu46Gln binds the inhibitors 2â€²GMP and 2â€²AMP at the 3â€² subsite. Journal of Molecular Biology, 1992, 225, 533-542.	2.0	26
92	Folding of RNase T1 is decelerated by a specific tertiary contact in a folding intermediate. Proteins: Structure, Function and Bioinformatics, 1992, 12, 171-179.	1.5	47
93	Determination of DNA-binding parameters for the Bacillus subtilis histone-like HBsu protein through introduction of fluorophores by site-directed mutagenesis of a synthetic gene. FEBS Journal, 1992, 207, 677-685.	0.2	26
94	High-level expression of a semisynthetic dam gene in Escherichia coli. Gene, 1991, 98, 83-88.	1.0	9
95	Thermodynamic analysis of the equilibrium, association and dissociation of 2â€²GMP and 3â€²GMP with ribonuclease T1 at pH 5.3. Biochimica Et Biophysica Acta - General Subjects, 1991, 1073, 357-365.	1.1	9
96	Synthesis and kinetic study of transition state analogs for ribonuclease T1. BBA - Proteins and Proteomics, 1991, 1118, 1-5.	2.1	11
97	Studies on RNase T1 mutants affecting enzyme catalysis. FEBS Journal, 1991, 197, 203-207.	0.2	37
98	Two-dimensional 1H, 15N-NMR investigation of uniformly 15N-labeled ribonuclease T1. Complete assignment of 15N resonances. FEBS Journal, 1991, 197, 643-653.	0.2	25
99	Ribonuclease T1: Structure, Function, and Stability. Angewandte Chemie International Edition in English, 1991, 30, 343-360.	4.4	144
100	Ribonuclease T1: Struktur, Funktion und StabilitÃt. Angewandte Chemie, 1991, 103, 351-369.	1.6	22
101	Expression of the chemically synthesized coding region for the cytotoxin alpha-sarcin in Escherichia coli using a secretion cloning vector. FEBS Journal, 1990, 192, 127-131.	0.2	14
102	E. coliDam activity in Hepes buffer asks for a new unit definition. Nucleic Acids Research, 1990, 18, 7189-7189.	6.5	6
103	Replacement of a cis proline simplifies the mechanism of ribonuclease T1 folding. Biochemistry, 1990, 29, 6475-6480.	1.2	140
104	Stability of recombinant Lys25-ribonuclease T1. Biochemistry, 1990, 29, 8250-8257.	1.2	43
105	Folding of ribonuclease T1. 2. Kinetic models for the folding and unfolding reactions. Biochemistry, 1990, 29, 3061-3070.	1.2	145
106	Folding of ribonuclease T1. 1. Existence of multiple unfolded states created by proline isomerization. Biochemistry, 1990, 29, 3053-3061.	1.2	174
107	A general method for rapid site-directed mutagenesis using the polymerase chain reaction. Gene, 1990, 96, 125-128.	1.0	735
108	Binding of vanadate (V) to ribonuclease-T1 and inosine, investigated by 15V NMR spectroscopy. Journal of Inorganic Biochemistry, 1989, 37, 141-150.	1.5	34

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109	Indicator plates for rapid detection of ribonuclease T1 secretingEscherichia coliclones. Nucleic Acids Research, 1989, 17, 3318-3318.	6.5	30
110	Structural and functional studies of ribonuclease T1. , 1989, , 111-141.		19
111	Cloning of a full-length complementary DNA for fatty-acid-binding protein from bovine heart. FEBS Journal, 1988, 175, 549-556.	0.2	67
112	Expression of Ribonuclease T1 in Escherichia Coli and Rapid Purification of the Enzyme. Nucleosides & Nucleotides, 1988, 7, 619-623.	0.5	27
113	Expression of the chemically synthesized gene for ribonuclease T1 in Escherichia coli using a secretion cloning vector. FEBS Journal, 1988, 173, 617-622.	0.2	87
114	Chemical Synthesis and Cloning of a Gene Coding for Bacillus Subjilis Hbsu Protein. Nucleosides & Nucleotides, 1988, 7, 817-820.	0.5	7
115	Synthesis of highly radioactively labelled RNA hybridization probes from synthetic single stranded DNA oligonucleotides. Nucleic Acids Research, 1987, 15, 858-858.	6.5	4
116	Sequencin refractory GC rich regions in plasmid DNA. Nucleic Acids Research, 1987, 15, 2779-2779.	6.5	2
117	Protein dynamics. Biophysical Chemistry, 1987, 26, 247-261.	1.5	45
118	Crystallization of the activated ternary complex of ribulose-1,5-bisphosphate carboxylase-oxygenase isolated from Rhodospirillum rubrum and from an Escherichia coli clone. Journal of Molecular Biology, 1985, 185, 781-783.	2.0	10
119	Single and twinned crystals of ribulose-1,5-bisphosphate carboxylase-oxygenase from Alcaligenes eutrophus. Journal of Biological Chemistry, 1985, 260, 10768-70.	1.6	15
120	Crystallization of and preliminary X-ray diffraction data for TET-repressor and the TET-repressor-tetracycline complex. Journal of Molecular Biology, 1984, 180, 1189-1191.	2.0	8
121	Consensus structure and evolution of 5S rRNA. Nucleic Acids Research, 1983, 11, 893-900.	6.5	55
122	The cloning of Aspergillus nidulans mitochondrial DNA in Escherichia coli on plasmid pBR322. Molecular Genetics and Genomics, 1981, 182, 332-335.	2.4	11
123	Nucleotide sequence of 5S ribosomal RNA from Aspergillus nidulans and Neurospora crassa. Nucleic Acids Research, 1981, 9, 1445-1450.	6.5	30
124	Physical map of Aspergillus nidulans mitochondrial genes coding for ribosomal RNA: An intervening sequence in the large rRNA cistron. Molecular Genetics and Genomics, 1980, 177, 389-397.	2.4	44
125	Split gene for mitochondrial 24S ribosomal RNA of neurospora crassa. Cell, 1979, 17, 191-200.	13.5	75