Paul M P Van Bergen En Henegouwen

List of Publications by Year
in descending order

108 papers	7,837 citations	38742 50 h-index	51608 86 g-index
110 all docs	110 docs citations	110 times ranked	10580 citing authors

#	Article	IF	Citations
1	PEGylated and targeted extracellular vesicles display enhanced cell specificity and circulation time. Journal of Controlled Release, 2016, 224, 77-85.	9.9	402
2	A regulated interaction with the UIM protein Eps15 implicates parkin in EGF receptor trafficking and PI(3)Kâ€“Akt signalling. Nature Cell Biology, 2006, 8, 834-842.	10.3	325
3	Amphiregulin Enhances Regulatory T Cell-Suppressive Function via the Epidermal Growth Factor Receptor. Immunity, 2013, 38, 275-284.	14.3	324
4	Efficient inhibition of EGFR signalling and of tumour growth by antagonistic anti-EGFR Nanobodies. Cancer Immunology, Immunotherapy, 2007, 56, 303-317.	4.2	315
5	The epidermal growth factor.. Cell Biology International, 1995, 19, 413-430.	3.0	250
6	ErbB1 dimerization is promoted by domain co-confinement and stabilized by ligand binding. Nature Structural and Molecular Biology, 2011, 18, 1244-1249.	8.2	245
7	A biparatopic antiâ€EGFR nanobody efficiently inhibits solid tumour growth. International Journal of Cancer, 2011, 129, 2013-2024.	5.1	210
8	Nanobody-based cancer therapy of solid tumors. Nanomedicine, 2015, 10, 161-174.	3.3	204
9	Structural Evaluation of EGFR Inhibition Mechanisms for Nanobodies/VHH Domains. Structure, 2013, 21, 1214-1224.	3.3	185
10	Antibody or Antibody Fragments: Implications for Molecular Imaging and Targeted Therapy of Solid Tumors. Frontiers in Immunology, 2017, 8, 1287.	4.8	181
11	The blood-brain barrier transmigrating single domain antibody: mechanisms of transport and antigenic epitopes in human brain endothelial cells. Journal of Neurochemistry, 2005, 95, 1201-1214.	3.9	176
12	Resolving bundled microtubules using anti-tubulin nanobodies. Nature Communications, 2015, 6, 7933.	12.8	174
13	Targeting tumors with nanobodies for cancer imaging and therapy. Journal of Controlled Release, 2013, 172, 607-617.	9.9	172
14	Integrated fluorescence and transmission electron microscopy. Journal of Structural Biology, 2008, 164, 183-189.	2.8	158
15	EGFR Dynamics Change during Activation in Native Membranes as Revealed by NMR. Cell, 2016, 167, 1241-1251.e11.	28.9	153
16	Rapid Visualization of Human Tumor Xenografts through Optical Imaging with a Near-Infrared Fluorescent Antiâ€“Epidermal Growth Factor Receptor Nanobody. Molecular Imaging, 2012, 11, 7290.2011.00025.	1.4	152
17	Phosphatidylinositol 4-KinaseÎ² Is Critical for Functional Association of rab11 with the Golgi Complex. Molecular Biology of the Cell, 2004, 15, 2038-2047.	2.1	147
18	Homo-FRET Imaging Enables Quantification of Protein Cluster Sizes with Subcellular Resolution. Biophysical Journal, 2009, 97, 2613-2622.	0.5	140

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19	EGF induces coalescence of different lipid rafts. Journal of Cell Science, 2008, 121, 2519-2528.	2.0	132
20	EGFR targeted nanobodyâ€“photosensitizer conjugates for photodynamic therapy in a pre-clinical model of head and neck cancer. Journal of Controlled Release, 2016, 229, 93-105.	9.9	132
21	Membrane rearrangements mediated by coronavirus nonstructural proteins 3 and 4. Virology, 2014, 458-459, 125-135.	2.4	128
22	Association and Colocalization of Eps15 with Adaptor Protein-2 and Clathrin. Journal of Cell Biology, 1997, 136, 811-821.	5.2	118
23	Protein Kinase CÎ¶ Is a Negative Regulator of Protein Kinase B Activity. Journal of Biological Chemistry, 1999, 274, 8589-8596.	3.4	118
24	Downregulation of EGFR by a novel multivalent nanobody-liposome platform. Journal of Controlled Release, 2010, 145, 165-175.	9.9	117
25	Rapid optical imaging of human breast tumour xenografts using anti-HER2 VHHs site-directly conjugated to IRDye 800CW for image-guided surgery. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 1718-1729.	6.4	109
26	Epidermal Growth Factor Induces Ubiquitination of Eps15. Journal of Biological Chemistry, 1997, 272, 14013-14016.	3.4	100
27	Ligand-induced EGF Receptor Oligomerization Is Kinase-dependent and Enhances Internalization. Journal of Biological Chemistry, 2010, 285, 39481-39489.	3.4	98
28	Nanobodies and Nanocrystals: Highly Sensitive Quantum Dotâ€Based Homogeneous FRET Immunoassay for Serumâ€Based EGFR Detection. Small, 2014, 10, 734-740.	10.0	98
29	A Ubiquitin-interacting Motif (UIM) Is Essential for Eps15 and Eps15R Ubiquitination. Journal of Biological Chemistry, 2002, 277, 30746-30753.	3.4	88
30	Nanobody-albumin nanoparticles (NANAPs) for the delivery of a multikinase inhibitor 17864 to EGFR overexpressing tumor cells. Journal of Controlled Release, 2013, 165, 110-118.	9.9	88
31	Rapid visualization of human tumor xenografts through optical imaging with a near-infrared fluorescent anti-epidermal growth factor receptor nanobody. Molecular Imaging, 2012, 11, 33-46.	1.4	88
32	Facile labelling of an anti-epidermal growth factor receptor Nanobody with 68Ga via a novel bifunctional desferal chelate for immuno-PET. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 753-763.	6.4	87
33	Factor VIIa/Tissue Factor-induced Signaling via Activation of Src-like Kinases, Phosphatidylinositol 3-Kinase, and Rac. Journal of Biological Chemistry, 2000, 275, 28750-28756.	3.4	85
34	Tumor-targeted Nanobullets: Anti-EGFR nanobody-liposomes loaded with anti-IGF-1R kinase inhibitor for cancer treatment. Journal of Controlled Release, 2012, 159, 281-289.	9.9	83
35	Homoâ€FRET Imaging as a Tool to Quantify Protein and Lipid Clustering. ChemPhysChem, 2011, 12, 475-483.	2.1	82
36	Bispecific antibody platforms for cancer immunotherapy. Critical Reviews in Oncology/Hematology, 2014, 92, 153-165.	4.4	78

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37	Nanobodyâ€“photosensitizer conjugates for targeted photodynamic therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1441-1451.	3.3	76
38	Targeting hepatocyte growth factor receptor (Met) positive tumor cells using internalizing nanobody-decorated albumin nanoparticles. Biomaterials, 2014, 35, 601-610.	11.4	72
39	Activation of Rho-Dependent Cell Spreading and Focal Adhesion Biogenesis by the v-Crk Adaptor Protein. Molecular and Cellular Biology, 1998, 18, 3044-3058.	2.3	71
40	The architecture of EGFRâ€™s basal complexes reveals autoinhibition mechanisms in dimers and oligomers. Nature Communications, 2018, 9, 4325.	12.8	71
41	Therapeutic stem cells expressing variants of EGFR-specific nanobodies have antitumor effects. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16642-16647.	7.1	70
42	Eps15: a multifunctional adaptor protein regulating intracellular trafficking. Cell Communication and Signaling, 2009, 7, 24.	6.5	66
43	Probing cytoskeletal modulation of passive and active intracellular dynamics using nanobody-functionalized quantum dots. Nature Communications, 2017, 8, 14772.	12.8	65
44	A bispecific nanobody approach to leverage the potent and widely applicable tumor cytolytic capacity of Vî³9Vî´2-T cells. OncoImmunology, 2018, 7, e1375641.	4.6	61
45	Maximal epidermal growth-factor-induced cytosolic phospholipase A2 activation in vivo requires phosphorylation followed by an increased intracellular calcium concentration. Biochemical Journal, 1996, 313, 91-96.	3.7	59
46	Ubiquilin recruits Eps15 into ubiquitin-rich cytoplasmic aggregates via a UIM-UBL interaction. Journal of Cell Science, 2005, 118, 4437-4450.	2.0	57
47	Time-gated FRET nanoassemblies for rapid and sensitive intra- and extracellular fluorescence imaging. Science Advances, 2016, 2, e1600265.	10.3	56
48	ATTACK, a novel bispecific T cell-recruiting antibody with trivalent EGFR binding and monovalent CD3 binding for cancer immunotherapy. OncoImmunology, 2018, 7, e1377874.	4.6	56
49	Molecular biology of epidermal growth factor receptor inhibition for cancer therapy. Expert Opinion on Biological Therapy, 2006, 6, 605-617.	3.1	54
50	Hypoxia-Targeting Fluorescent Nanobodies for Optical Molecular Imaging of Pre-Invasive Breast Cancer. Molecular Imaging and Biology, 2016, 18, 535-544.	2.6	54
51	EGFR endocytosis requires its kinase activity and N-terminal transmembrane dimerization motif. Journal of Cell Science, 2013, 126, 4900-12.	2.0	52
52	Imaging of protein cluster sizes by means of confocal time-gated fluorescence anisotropy microscopy. Optics Express, 2007, 15, 6934.	3.4	51
53	Nanobodies and Antibodies for Duplexed EGFR/HER2 Immunoassays Using Terbium-to-Quantum Dot FRET. Chemistry of Materials, 2016, 28, 8256-8267.	6.7	51
54	Nuclear localization of phosphatidylinositol 4-kinase Î². Journal of Cell Science, 2002, 115, 1769-1775.	2.0	50

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55	A novel method to quantify IRDye800CW fluorescent antibody probes ex vivo in tissue distribution studies. EJNMMI Research, 2012, 2, 50.	2.5	49
56	Nanobody-targeted photodynamic therapy induces significant tumor regression of trastuzumab-resistant HER2-positive breast cancer, after a single treatment session. Journal of Controlled Release, 2020, 323, 269-281.	9.9	49
57	VIIa/Tissue Factor Interaction Results in a Tissue Factor Cytoplasmic Domain-independent Activation of Protein Synthesis, p70, and p90 S6 Kinase Phosphorylation. Journal of Biological Chemistry, 2002, 277, 27065-27072.	3.4	47
58	Cyclooxygenase-dependent signalling: molecular events and consequences. FEBS Letters, 1999, 445, 1-5.	2.8	43
59	High Cytotoxicity of Cisplatin Nanocapsules in Ovarian Carcinoma Cells Depends on Uptake by Caveolae-Mediated Endocytosis. Clinical Cancer Research, 2009, 15, 1259-1268.	7.0	43
60	Identification of a novel MET mutation in high-grade glioma resulting in an auto-active intracellular protein. Acta Neuropathologica, 2015, 130, 131-144.	7.7	43
61	Optical imaging of pre-invasive breast cancer with a combination of VHHs targeting CAIX and HER2 increases contrast and facilitates tumour characterization. EJNMMI Research, 2016, 6, 14.	2.5	43
62	Morphological and biochemical evidence for partial nuclear localization of annexin 1 in endothelial cells. Biochemical and Biophysical Research Communications, 1992, 186, 432-439.	2.1	40
63	Heat shock gene expression and cytoskeletal alterations in mouse neuroblastoma cells. Experimental Cell Research, 1987, 171, 367-375.	2.6	38
64	Epidermal growth factor induces serine phosphorylation of actin. FEBS Letters, 1995, 357, 251-254.	2.8	35
65	Homogeneous tumor targeting with a single dose of HER2-targeted albumin-binding domain-fused nanobody-drug conjugates results in long-lasting tumor remission in mice. Theranostics, 2021, 11, 5525-5538.	10.0	33
66	The EH1 Domain of Eps15 Is Structurally Classified as a Member of the S100 Subclass of EF-Hand-Containing Proteinsâ€. Biochemistry, 1999, 38, 11271-11277.	2.5	32
67	Acute cellular and vascular responses to photodynamic therapy using EGFR-targeted nanobody-photosensitizer conjugates studied with intravital optical imaging and magnetic resonance imaging. Theranostics, 2020, 10, 2436-2452.	10.0	32
68	Highly specific and potently activating VÎ³9VÎ´2-T cell specific nanobodies for diagnostic and therapeutic applications. Clinical Immunology, 2016, 169, 128-138.	3.2	29
69	High affinity nanobodies against human epidermal growth factor receptor selected on cells byE. colidisplay. MAbs, 2016, 8, 1286-1301.	5.2	28
70	VHH-Photosensitizer Conjugates for Targeted Photodynamic Therapy of Met-Overexpressing Tumor Cells. Antibodies, 2019, 8, 26.	2.5	28
71	Inhibition of Tumor Growth by Targeted Anti-EGFR/IGF-1R Nanobullets Depends on Efficient Blocking of Cell Survival Pathways. Molecular Pharmaceutics, 2013, 10, 3717-3727.	4.6	26
72	The Actin Binding Domain of the Epidermal Growth Factor Receptor Is Required for EGF-Stimulated Tissue Invasion. Experimental Cell Research, 1997, 234, 521-526.	2.6	23

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73	Inhibiting the clathrin-mediated endocytosis pathway rescues KIR2.1 downregulation by pentamidine. Pflugers Archiv European Journal of Physiology, 2013, 465, 247-259.	2.8	23
74	Imaging of Tumor Spheroids, Dual-Isotope SPECT, and Autoradiographic Analysis to Assess the Tumor Uptake and Distribution of Different Nanobodies. Molecular Imaging and Biology, 2019, 21, 1079-1088.	2.6	22
75	Molecular imaging with a fluorescent antibody targeting carbonic anhydrase IX can successfully detect hypoxic ductal carcinoma in situ of the breast. Breast Cancer Research and Treatment, 2013, 140, 263-272.	2.5	21
76	Identification of an intracellular domain of the EGF receptor required for high-affinity binding of EGF. FEBS Letters, 1997, 410, 265-268.	2.8	20
77	Sorting of Ligand-activated Epidermal Growth Factor Receptor to Lysosomes Requires Its Actin-binding Domain. Journal of Biological Chemistry, 2004, 279, 11562-11569.	3.4	20
78	Enhancement of Polymeric Immunoglobulin Receptor Transcytosis by Biparatopic VHH. PLoS ONE, 2011, 6, e26299.	2.5	20
79	A small protein probe for correlated microscopy of endogenous proteins. Histochemistry and Cell Biology, 2018, 149, 261-268.	1.7	16
80	Membrane vesicles of A431 cells contain one class of epidermal growth factor binding sites. Biochimica Et Biophysica Acta - Molecular Cell Research, 1990, 1052, 453-460.	4.1	15
81	Implications for tetraspanin-enriched microdomain assembly based on structures of CD9 with EWI-F. Life Science Alliance, 2020, 3, e202000883.	2.8	15
82	Dissociation of NGF Induced Signal Transduction from Neurite Elongation by Expression of a Mutant Adaptor Protein v-Crk in PC12 Cells. Molecular and Cellular Neurosciences, 1996, 8, 157-170.	2.2	14
83	Generation and characterization of CD1dâ€specific singleâ€domain antibodies with distinct functional features. Immunology, 2016, 149, 111-121.	4.4	14
84	Class <scp>III</scp> antiarrhythmic drugs amiodarone and dronedarone impair <scp>K_{IR}</scp>2.1 backward trafficking. Journal of Cellular and Molecular Medicine, 2017, 21, 2514-2523.	3.6	12
85	Dual Targeting of Endothelial and Cancer Cells Potentiates In Vitro Nanobody-Targeted Photodynamic Therapy. Cancers, 2020, 12, 2732.	3.7	12
86	Heat shock-induced redistribution of a 160-kDa nuclear matrix protein. Experimental Cell Research, 1992, 202, 243-251.	2.6	11
87	Siteâ€specific functionality and tryptophan mimicry of lipidation in tetraspanin CD9. FEBS Journal, 2020, 287, 5323-5344.	4.7	10
88	Generation of a nanobody against HER2 tyrosine kinase using phage display library screening for HER2-positive breast cancer therapy development. Protein Engineering, Design and Selection, 2021, 34, .	2.1	10
89	EGF induces rapid reorganization of plasma membrane microdomains. Communicative and Integrative Biology, 2009, 2, 213-214.	1.4	9
90	Analysis of EGF Receptor Oligomerization by Homo-FRET. Methods in Cell Biology, 2013, 117, 305-321.	1.1	9

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91	Prevention of VÎ³9VÎ´2 T Cell Activation by a VÎ³9VÎ´2 TCR Nanobody. Journal of Immunology, 2017, 198, 308-317.	0.8	9
92	Adaptive Resistance to EGFR-Targeted Therapy by Calcium Signaling in NSCLC Cells. Molecular Cancer Research, 2018, 16, 1773-1784.	3.4	9
93	Development of in vitro-grown spheroids as a 3D tumor model system for solid-state NMR spectroscopy. Journal of Biomolecular NMR, 2020, 74, 401-412.	2.8	9
94	Nanobody-targeted photodynamic therapy for the treatment of feline oral carcinoma: a step towards translation to the veterinary clinic. Nanophotonics, 2021, 10, 3075-3087.	6.0	6
95	Novel VHH-Based Tracers with Variable Plasma Half-Lives for Imaging of CAIX-Expressing Hypoxic Tumor Cells. Molecular Pharmaceutics, 2022, 19, 3511-3520.	4.6	6
96	Case Report: An EGFR-Targeted 4-1BB-agonistic Trimerbody Does Not Induce Hepatotoxicity in Transgenic Mice With Liver Expression of Human EGFR. Frontiers in Immunology, 2020, 11, 614363.	4.8	5
97	Structural insights into the non-inhibitory mechanism of the anti-EGFR EgB4 nanobody. BMC Molecular and Cell Biology, 2022, 23, 12.	2.0	5
98	Multifaceted Activities of Seven Nanobodies against Complement C4b. Journal of Immunology, 2022, 208, 2207-2219.	0.8	5
99	Membrane domain formationÃ¢â‚¬â€ key factor for targeted intracellular drug delivery. Frontiers in Physiology, 2014, 5, 462.	2.8	3
100	Sequence-specific 1H, 13C and 15N assignment of the EH1 domain of mouse Eps15. Journal of Biomolecular NMR, 1998, 12, 465-466.	2.8	2
101	Confocal time-resolved fluorescence anisotropy imaging. , 2007, , .		2
102	Nanobody-targeted photodynamic therapy for oncology. Photodiagnosis and Photodynamic Therapy, 2015, 12, 339.	2.6	2
103	Single Domain Antibodies as Carriers for Intracellular Drug Delivery: A Proof of Principle Study. Biomolecules, 2021, 11, 927.	4.0	2
104	Sequence-specific 1H, 13C and 15N assignment and secondary structure of the apo EH2 domain of mouse Eps15. Journal of Biomolecular NMR, 1999, 14, 97-98.	2.8	1
105	A Function for EGF-Induced Eps15 Ubiquitination in Endocytosis. , 1998, , 85-94.		1
106	A function for Eps15 in EGF-receptor endocytosis?. , 1997, , 151-161.		0
107	Abstract 4935: Hypoxia targeting fluorescent nanobodies for optical molecular imaging of preinvasive breast cancer. , 2014, , .		0
108	Nanobody-Targeted Photodynamic Therapy: Nanobody Production and Purification. Methods in Molecular Biology, 2022, 2451, 481-493.	0.9	0