

# Ermanno Gherardi

## List of Publications by Year in descending order

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92  
papers

12,370  
citations

81839

39  
h-index

53190

85  
g-index

96  
all docs

96  
docs citations

96  
times ranked

10454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Met, metastasis, motility and more. Nature Reviews Molecular Cell Biology, 2003, 4, 915-925.	16.1	2,399
2	Scatter factor/hepatocyte growth factor is essential for liver development. Nature, 1995, 373, 699-702.	13.7	1,354
3	Scatter factor is a fibroblast-derived modulator of epithelial cell mobility. Nature, 1987, 327, 239-242.	13.7	1,300
4	Targeting MET in cancer: rationale and progress. Nature Reviews Cancer, 2012, 12, 89-103.	12.8	1,243
5	Developmental roles of HGF/SF and its receptor, the c-Met tyrosine kinase. Trends in Cell Biology, 1998, 8, 404-410.	3.6	558
6	Structural repertoire of the human VH segments. Journal of Molecular Biology, 1992, 227, 799-817.	2.0	412
7	Purification of scatter factor, a fibroblast-derived basic protein that modulates epithelial interactions and movement.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 5844-5848.	3.3	390
8	Roles of hepatocyte growth factor/scatter factor and the met receptor in the early development of the metanephros.. Journal of Cell Biology, 1995, 128, 171-184.	2.3	308
9	An Approach to Random Mutagenesis of DNA Using Mixtures of Triphosphate Derivatives of Nucleoside Analogues. Journal of Molecular Biology, 1996, 255, 589-603.	2.0	300
10	Hepatocytes and scatter factor. Nature, 1990, 346, 228-228.	13.7	219
11	Heparan Sulfate-modified CD44 Promotes Hepatocyte Growth Factor/Scatter Factor-induced Signal Transduction through the Receptor Tyrosine Kinase c-Met. Journal of Biological Chemistry, 1999, 274, 6499-6506.	1.6	198
12	Structural basis of hepatocyte growth factor/scatter factor and MET signalling. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4046-4051.	3.3	193
13	The effect of high-frequency random mutagenesis on in vitro protein evolution: a study on TEM-1 $\beta$ -lactamase 1 Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 285, 775-783.	2.0	192
14	Molecular evolution and domain structure of plasminogen-related growth factors (HGF/SF and) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 2	3.1	166
15	Functional map and domain structure of MET, the product of the c-met protooncogene and receptor for hepatocyte growth factor/scatter factor. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12039-12044.	3.3	163
16	Structure of the Human Receptor Tyrosine Kinase Met in Complex with the Listeria Invasion Protein InlB. Cell, 2007, 130, 235-246.	13.5	147
17	The sema domain. Current Opinion in Structural Biology, 2004, 14, 669-678.	2.6	142
18	Involvement of hepatocyte growth factor/scatter factor and Met receptor signaling in hair follicle morphogenesis and cycling. FASEB Journal, 2000, 14, 319-332.	0.2	129

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19	Hepatocyte Growth Factor/Scatter Factor Can Induce Angiogenesis Independently of Vascular Endothelial Growth Factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003, 23, 69-75.	1.1	126
20	Diverse and potent activities of HGF/SF in skin wound repair. <i>Journal of Pathology</i> , 2004, 203, 831-838.	2.1	122
21	Crystal structure of the NK1 fragment of HGF/SF suggests a novel mode for growth factor dimerization and receptor binding. <i>Nature Structural Biology</i> , 1999, 6, 72-79.	9.7	110
22	Crystal structures of NK1-heparin complexes reveal the basis for NK1 activity and enable engineering of potent agonists of the MET receptor. <i>EMBO Journal</i> , 2001, 20, 5543-5555.	3.5	107
23	Co-expression of the HGF/SF and c-met genes during early mouse embryogenesis precedes reciprocal expression in adjacent tissues during organogenesis. , 1996, 18, 254-266.		98
24	Engineered mutants of HGF/SF with reduced binding to heparan sulphate proteoglycans, decreased clearance and enhanced activity in vivo. <i>Current Biology</i> , 1998, 8, 125-135.	1.8	91
25	Regulation of cell movement: the motogenic cytokines. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 1991, 1072, 81-102.	3.3	89
26	Expression of HGF/SF, HGFI/MSP, and c-met suggests new functions during early chick development. <i>Genesis</i> , 1995, 17, 90-101.	3.3	84
27	Insights into the Structure/Function of Hepatocyte Growth Factor/Scatter Factor from Studies with Individual Domains. <i>Journal of Molecular Biology</i> , 2007, 367, 395-408.	2.0	80
28	Interactions of Hepatocyte Growth Factor/Scatter Factor with Various Glycosaminoglycans Reveal an Important Interplay between the Presence of Iduronate and Sulfate Density. <i>Journal of Biological Chemistry</i> , 2008, 283, 5235-5248.	1.6	80
29	Structural basis for agonism and antagonism of hepatocyte growth factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13264-13269.	3.3	75
30	Mutation and selection during the secondary response to 2-phenyloxazolone.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 5508-5512.	3.3	66
31	Original and artificial antibodies. <i>Nature</i> , 1992, 357, 201-202.	13.7	66
32	Experimental nephrotic syndrome in the rat induced by puromycin aminonucleoside. Plasma and urinary lipoproteins. <i>Experimental and Molecular Pathology</i> , 1980, 32, 128-142.	0.9	59
33	A mechanistic basis for converting a receptor tyrosine kinase agonist to an antagonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14592-14597.	3.3	55
34	Signalling by HGF/SF and Met: the role of heparan sulphate co-receptors. <i>Biochemical Society Transactions</i> , 2006, 34, 414-417.	1.6	54
35	Computer-assisted mass spectrometric analysis of naturally occurring and artificially introduced cross-links in proteins and protein complexes. <i>FEBS Journal</i> , 2006, 273, 281-291.	2.2	54
36	The Interactions of Hepatocyte Growth Factor/Scatter Factor and Its NK1 and NK2 Variants with Glycosaminoglycans Using a Modified Gel Mobility Shift Assay. <i>Journal of Biological Chemistry</i> , 2004, 279, 43560-43567.	1.6	52

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37	Aromatic amino acids at the surface of InIB are essential for host cell invasion by <i>Listeria monocytogenes</i> . <i>Molecular Microbiology</i> , 2003, 48, 1525-1536.	1.2	43
38	Ligand-Mediated Dimerization of the Met Receptor Tyrosine Kinase by the Bacterial Invasion Protein InIB. <i>Journal of Molecular Biology</i> , 2010, 395, 522-532.	2.0	43
39	Colony assays for antibody fragments expressed in bacteria. <i>Journal of Immunological Methods</i> , 1991, 139, 197-205.	0.6	42
40	Non-random features of the repertoire expressed by the members of one Vx gene family and of the VJ recombination. <i>European Journal of Immunology</i> , 1992, 22, 1627-1634.	1.6	42
41	Human Nonalcoholic Steatohepatitis on a Chip. <i>Hepatology Communications</i> , 2021, 5, 217-233.	2.0	42
42	HGF/SF Inhibits Junctional Communication. <i>Experimental Cell Research</i> , 1995, 219, 657-663.	1.2	38
43	Engineering the NK1 Fragment of Hepatocyte Growth Factor/Scatter Factor as a MET Receptor Antagonist. <i>Journal of Molecular Biology</i> , 2008, 377, 616-622.	2.0	38
44	A Novel Multipurpose Monoclonal Antibody for Evaluating Human c-Met Expression in Preclinical and Clinical Settings. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2009, 17, 57-67.	0.6	38
45	Characterization of the Scatter Factor/Hepatocyte Growth Factor Gene Promoter. <i>Journal of Biological Chemistry</i> , 1995, 270, 830-836.	1.6	36
46	X-ray and Neutron Small-Angle Scattering Analysis of the Complex Formed by the Met Receptor and the <i>Listeria monocytogenes</i> Invasion Protein InIB. <i>Journal of Molecular Biology</i> , 2008, 377, 489-500.	2.0	34
47	Eotaxin-1/CC Chemokine Ligand 11: A Novel Eosinophil Survival Factor Secreted by Human Pulmonary Artery Endothelial Cells. <i>Journal of Immunology</i> , 2007, 179, 1264-1273.	0.4	33
48	Expression of a Cx43 Deletion Mutant in 3T3 A31 Fibroblasts Prevents PDGF-Induced Inhibition of Cell Communication and Suppresses Cell Growth. <i>Experimental Cell Research</i> , 1999, 249, 367-376.	1.2	32
49	Targeting of Mitogen-Activated Protein Kinases and Phosphatidylinositol 3 Kinase Inhibits Hepatocyte Growth Factor/Scatter Factor-Induced Angiogenesis. <i>Circulation</i> , 2003, 107, 2955-2961.	1.6	32
50	Insights into the structure of hepatocyte growth factor/scatter factor (HGF/SF) and implications for receptor activation. <i>FEBS Letters</i> , 1998, 430, 126-129.	1.3	29
51	Coupling growth-factor engineering with nanotechnology for therapeutic angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13608-13613.	3.3	29
52	Non-Agonistic Bivalent Antibodies That Promote c-MET Degradation and Inhibit Tumor Growth and Others Specific for Tumor Related c-MET. <i>PLoS ONE</i> , 2012, 7, e34658.	1.1	28
53	Transforming growth factor- $\beta$ 1 and interleukin- $1\beta$ stimulate LDL receptor activity in Hep G2 cells. <i>Atherosclerosis</i> , 1992, 97, 21-28.	0.4	27
54	Experimental nephrotic syndrome induced in the rat by puromycin aminonucleoside: Hepatic synthesis of neutral lipids and phospholipids from $^3\text{H}$ -water and $^3\text{H}$ -palmitate. <i>Lipids</i> , 1980, 15, 108-112.	0.7	26

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55	Exploring the chemical space of the lysine-binding pocket of the first kringle domain of hepatocyte growth factor/scatter factor (HGF/SF) yields a new class of inhibitors of HGF/SF-MET binding. <i>Chemical Science</i> , 2015, 6, 6147-6157.	3.7	26
56	Protein Engineered Variants of Hepatocyte Growth Factor/Scatter Factor Promote Proliferation of Primary Human Hepatocytes and in Rodent Liver. <i>Gastroenterology</i> , 2012, 142, 897-906.	0.6	25
57	Growth factors and cell movement. <i>European Journal of Cancer &amp; Clinical Oncology</i> , 1991, 27, 403-405.	0.9	24
58	Hepatocyte Growth Factor/Scatter Factor and MET Are Involved in Arterial Repair and Atherogenesis. <i>American Journal of Pathology</i> , 2006, 168, 340-348.	1.9	24
59	Crystal structure of the I <sup>2</sup> -chain of human hepatocyte growth factor-like/macrophage stimulating protein. <i>FEBS Journal</i> , 2005, 272, 5799-5807.	2.2	23
60	A New Crystal Form of the NK1 Splice Variant of HGF/SF Demonstrates Extensive Hinge Movement and Suggests That the NK1 Dimer Originates by Domain Swapping. <i>Journal of Molecular Biology</i> , 2002, 319, 283-288.	2.0	22
61	A single-step procedure for cloning and selection of antibody-secreting hybridomas. <i>Journal of Immunological Methods</i> , 1990, 126, 61-68.	0.6	21
62	Plasma and urine lipoproteins during the development of nephrotic syndrome induced in the rat by adriamycin. <i>Experimental and Molecular Pathology</i> , 1983, 39, 282-299.	0.9	20
63	Inhibition of the MET Kinase Activity and Cell Growth in MET-Addicted Cancer Cells by Bi-Paratopic Linking. <i>Journal of Molecular Biology</i> , 2019, 431, 2020-2039.	2.0	20
64	Experimental nephrotic syndrome in the rat induced by puromycin aminonucleoside: Hepatic synthesis of lipoproteins and apolipoproteins. <i>Lipids</i> , 1980, 15, 858-863.	0.7	19
65	Universal cloning and direct sequencing of rearranged antibody V genes using C region primers, biotin-captured cDNA and one-side PCR. <i>Journal of Immunological Methods</i> , 1995, 178, 241-251.	0.6	19
66	Generation and characterization of novel recombinant anti-hERG1 scFv antibodies for cancer molecular imaging. <i>Oncotarget</i> , 2018, 9, 34972-34989.	0.8	19
67	Chemical and morphological changes of rat plasma lipoproteins after a prolonged administration of diets containing olive oil and cholesterol. <i>Atherosclerosis</i> , 1977, 28, 369-387.	0.4	18
68	Scatter factor and other regulators of cell mobility. <i>British Medical Bulletin</i> , 1989, 45, 481-491.	2.7	18
69	Cyclooxygenase-2-selective nonsteroidal anti-inflammatory drugs inhibit hepatocyte growth factor/scatter factor-induced angiogenesis. <i>Cancer Research</i> , 2003, 63, 8351-9.	0.4	16
70	Glycoprotein production for structure analysis with stable, glycosylation mutant CHO cell lines established by fluorescence-activated cell sorting. <i>Protein Science</i> , 2010, 19, 1264-1271.	3.1	15
71	Membrane-bound apolipoprotein B is exposed at the cytosolic surface of liver microsomes. <i>FEBS Letters</i> , 1992, 304, 24-26.	1.3	14
72	Crystal structure of an engineered YopM-InlB hybrid protein. <i>BMC Structural Biology</i> , 2014, 14, 12.	2.3	11

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73	A sensitive RNase protection assay for the quantitation of the mRNAs for the LDL receptor and HMG-CoA reductase in human total RNA Effects of treatments on cells in culture designed to up- and down-regulate expression of the LDL receptor. <i>Atherosclerosis</i> , 1991, 90, 81-90.	0.4	10
74	Dimerization of Fab fragments enables ready screening of phage antibodies that affect hepatocyte growth factor/scatter factor activity on target cells. <i>European Journal of Immunology</i> , 1997, 27, 618-623.	1.6	10
75	A G2/M Cell Cycle Block in Transformed Cells by Contact with Normal Neighbours. <i>Cell Cycle</i> , 2003, 2, 482-485.	1.3	10
76	Engineered variants of InlB with an additional leucine-rich repeat discriminate between physiologically relevant and packing contacts in crystal structures of the InlB:MET complex. <i>Protein Science</i> , 2012, 21, 1528-1539.	3.1	9
77	Factors Affecting Epithelial Interactions. <i>Novartis Foundation Symposium</i> , 1987, 125, 217-239.	1.2	9
78	Evolution of Plasminogen-Related Growth Factors (HGF/SF and HGF1/MSP). <i>Novartis Foundation Symposium</i> , 1997, 212, 24-45.	1.2	8
79	A Novel HGF/SF Receptor (MET) Agonist Transiently Delays the Disease Progression in an Amyotrophic Lateral Sclerosis Mouse Model by Promoting Neuronal Survival and Dampening the Immune Dysregulation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8542.	1.8	8
80	Developing Antagonists for the Met-HGF/SF Protein-Protein Interaction Using a Fragment-Based Approach. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 3-14.	1.9	7
81	Characterization and structural determination of a new anti-MET function-blocking antibody with binding epitope distinct from the ligand binding domain. <i>Scientific Reports</i> , 2017, 7, 9000.	1.6	7
82	Nitric oxide modulates hepatocyte growth factor/scatter factor-induced angiogenesis. <i>Angiogenesis</i> , 2004, 7, 285-294.	3.7	6
83	Structural Basis of Affinity Maturation of the TEPC15/V145.1 Anti-2-phenyl-5-oxazolone Antibodies. <i>Journal of Molecular Biology</i> , 2006, 359, 1161-1169.	2.0	6
84	Purification and characterization of scatter factor. <i>Exs</i> , 1991, 59, 53-62.	1.4	4
85	The distribution of apolipoprotein B in endoplasmic reticulum and Golgi subfractions of rabbit liver. <i>Biochemical Society Transactions</i> , 1990, 18, 1181-1181.	1.6	2
86	Topography of apolipoprotein B in subcellular fractions from rabbit liver. <i>Biochemical Society Transactions</i> , 1993, 21, 126S-126S.	1.6	0
87	Towards a molecular understanding of neural induction. <i>Biology of the Cell</i> , 1995, 84, 90-90.	0.7	0
88	Establishing Mammalian Production Cell Lines for Structural Biology by Site-Specific Recombination. , 2012, , 265-268.		0
89	Michael Stoker 1918-2013. <i>Cell</i> , 2013, 155, 493-494.	13.5	0
90	Chairman's Summing-Up. <i>Novartis Foundation Symposium</i> , 0, , 252-253.	1.2	0

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91	Domain Structure of Hepatocyte Growth Factor/Scatter Factor (HGF/SF). Novartis Foundation Symposium, 1997, 212, 84-104.	1.2	0
92	Engineered HGF/SF Variants Promote Angiogenesis. FASEB Journal, 2009, 23, 934.9.	0.2	0