

# Ermanno Gherardi

## List of Publications by Citations

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92  
papers

11,069  
citations

39  
h-index

96  
g-index

96  
ext. papers

11,704  
ext. citations

10.1  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
92	Met, metastasis, motility and more. <i>Nature Reviews Molecular Cell Biology</i> , <b>2003</b> , 4, 915-25	48.7	2175
91	Scatter factor/hepatocyte growth factor is essential for liver development. <i>Nature</i> , <b>1995</b> , 373, 699-702	50.4	1233
90	Scatter factor is a fibroblast-derived modulator of epithelial cell mobility. <i>Nature</i> , <b>1987</b> , 327, 239-42	50.4	1191
89	Targeting MET in cancer: rationale and progress. <i>Nature Reviews Cancer</i> , <b>2012</b> , 12, 89-103	31.3	1076
88	Developmental roles of HGF/SF and its receptor, the c-Met tyrosine kinase. <i>Trends in Cell Biology</i> , <b>1998</b> , 8, 404-10	18.3	497
87	Structural repertoire of the human VH segments. <i>Journal of Molecular Biology</i> , <b>1992</b> , 227, 799-817	6.5	377
86	Purification of scatter factor, a fibroblast-derived basic protein that modulates epithelial interactions and movement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1989</b> , 86, 5844-8	11.5	350
85	Roles of hepatocyte growth factor/scatter factor and the met receptor in the early development of the metanephros. <i>Journal of Cell Biology</i> , <b>1995</b> , 128, 171-84	7.3	284
84	An approach to random mutagenesis of DNA using mixtures of triphosphate derivatives of nucleoside analogues. <i>Journal of Molecular Biology</i> , <b>1996</b> , 255, 589-603	6.5	281
83	Hepatocytes and scatter factor. <i>Nature</i> , <b>1990</b> , 346, 228	50.4	184
82	Heparan sulfate-modified CD44 promotes hepatocyte growth factor/scatter factor-induced signal transduction through the receptor tyrosine kinase c-Met. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 6499-506	5.4	175
81	The effect of high-frequency random mutagenesis on in vitro protein evolution: a study on TEM-1 beta-lactamase. <i>Journal of Molecular Biology</i> , <b>1999</b> , 285, 775-83	6.5	168
80	Structural basis of hepatocyte growth factor/scatter factor and MET signalling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4046-51	11.5	165
79	Functional map and domain structure of MET, the product of the c-met protooncogene and receptor for hepatocyte growth factor/scatter factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 12039-44	11.5	149
78	Molecular evolution and domain structure of plasminogen-related growth factors (HGF/SF and HGF1/MSP). <i>Protein Science</i> , <b>1994</b> , 3, 2378-94	6.3	146
77	The sema domain. <i>Current Opinion in Structural Biology</i> , <b>2004</b> , 14, 669-78	8.1	130
76	Structure of the human receptor tyrosine kinase met in complex with the Listeria invasion protein InlB. <i>Cell</i> , <b>2007</b> , 130, 235-46	56.2	128

75	Involvement of hepatocyte growth factor/scatter factor and met receptor signaling in hair follicle morphogenesis and cycling. <i>FASEB Journal</i> , <b>2000</b> , 14, 319-32	0.9	117
74	Hepatocyte growth factor/scatter factor can induce angiogenesis independently of vascular endothelial growth factor. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2003</b> , 23, 69-75	9.4	107
73	Diverse and potent activities of HGF/SF in skin wound repair. <i>Journal of Pathology</i> , <b>2004</b> , 203, 831-8	9.4	104
72	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> , <b>1999</b> , 6, 72-9		99
71	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> , <b>2001</b> , 20, 5543-55	13	93
70	Co-expression of the HGF/SF and c-met genes during early mouse embryogenesis precedes reciprocal expression in adjacent tissues during organogenesis. <i>Genesis</i> , <b>1996</b> , 18, 254-66		89
69	Engineered mutants of HGF/SF with reduced binding to heparan sulphate proteoglycans, decreased clearance and enhanced activity in vivo. <i>Current Biology</i> , <b>1998</b> , 8, 125-34	6.3	88
68	Expression of HGF/SF, HGF1/MSP, and c-met suggests new functions during early chick development. <i>Genesis</i> , <b>1995</b> , 17, 90-101		81
67	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> , <b>2008</b> , 283, 5235-48	5.4	71
66	Insights into the structure/function of hepatocyte growth factor/scatter factor from studies with individual domains. <i>Journal of Molecular Biology</i> , <b>2007</b> , 367, 395-408	6.5	70
65	Regulation of cell movement: the motogenic cytokines. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , <b>1991</b> , 1072, 81-102	11.2	67
64	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> , <b>2010</b> , 107, 13264-9	11.5	63
63	Original and artificial antibodies. <i>Nature</i> , <b>1992</b> , 357, 201-2	50.4	62
62	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> , <b>1991</b> , 88, 5508-12	11.5	56
61	Experimental nephrotic syndrome in the rat induced by puromycin aminonucleoside. Plasma and urinary lipoproteins. <i>Experimental and Molecular Pathology</i> , <b>1980</b> , 32, 128-42	4.4	52
60	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> , <b>2007</b> , 104, 14592-7	11.5	50
59	Signalling by HGF/SF and Met: the role of heparan sulphate co-receptors. <i>Biochemical Society Transactions</i> , <b>2006</b> , 34, 414-7	5.1	49
58	Computer-assisted mass spectrometric analysis of naturally occurring and artificially introduced cross-links in proteins and protein complexes. <i>FEBS Journal</i> , <b>2006</b> , 273, 281-91	5.7	49

57	The interactions of hepatocyte growth factor/scatter factor and its NK1 and NK2 variants with glycosaminoglycans using a modified gel mobility shift assay. Elucidation of the minimal size of binding and activatory oligosaccharides. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 43560-7	5.4	49
56	Non-random features of the repertoire expressed by the members of one V kappa gene family and of the V-J recombination. <i>European Journal of Immunology</i> , <b>1992</b> , 22, 1627-34	6.1	42
55	Aromatic amino acids at the surface of InlB are essential for host cell invasion by <i>Listeria monocytogenes</i> . <i>Molecular Microbiology</i> , <b>2003</b> , 48, 1525-36	4.1	40
54	Ligand-mediated dimerization of the Met receptor tyrosine kinase by the bacterial invasion protein InlB. <i>Journal of Molecular Biology</i> , <b>2010</b> , 395, 522-32	6.5	39
53	Colony assays for antibody fragments expressed in bacteria. <i>Journal of Immunological Methods</i> , <b>1991</b> , 139, 197-205	2.5	37
52	A novel multipurpose monoclonal antibody for evaluating human c-Met expression in preclinical and clinical settings. <i>Applied Immunohistochemistry and Molecular Morphology</i> , <b>2009</b> , 17, 57-67	1.9	34
51	Engineering the NK1 fragment of hepatocyte growth factor/scatter factor as a MET receptor antagonist. <i>Journal of Molecular Biology</i> , <b>2008</b> , 377, 616-22	6.5	34
50	HGF/SF inhibits junctional communication. <i>Experimental Cell Research</i> , <b>1995</b> , 219, 657-63	4.2	34
49	X-ray and neutron small-angle scattering analysis of the complex formed by the Met receptor and the <i>Listeria monocytogenes</i> invasion protein InlB. <i>Journal of Molecular Biology</i> , <b>2008</b> , 377, 489-500	6.5	32
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> , <b>1999</b> , 249, 367-76	4.2	31
47	Characterization of the scatter factor/hepatocyte growth factor gene promoter. Positive and negative regulatory elements direct gene expression to mesenchymal cells. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 830-6	5.4	31
46	Eotaxin-1/CC chemokine ligand 11: a novel eosinophil survival factor secreted by human pulmonary artery endothelial cells. <i>Journal of Immunology</i> , <b>2007</b> , 179, 1264-73	5.3	29
45	Targeting of mitogen-activated protein kinases and phosphatidylinositol 3 kinase inhibits hepatocyte growth factor/scatter factor-induced angiogenesis. <i>Circulation</i> , <b>2003</b> , 107, 2955-61	16.7	28
44	Coupling growth-factor engineering with nanotechnology for therapeutic angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13608-13	11.5	27
43	Insights into the structure of hepatocyte growth factor/scatter factor (HGF/SF) and implications for receptor activation. <i>FEBS Letters</i> , <b>1998</b> , 430, 126-9	3.8	26
42	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> , <b>2012</b> , 7, e34658	3.7	26
41	Transforming growth factor-beta 1 and interleukin-1 beta stimulate LDL receptor activity in Hep G2 cells. <i>Atherosclerosis</i> , <b>1992</b> , 97, 21-8	3.1	25
40	Protein engineered variants of hepatocyte growth factor/scatter factor promote proliferation of primary human hepatocytes and in rodent liver. <i>Gastroenterology</i> , <b>2012</b> , 142, 897-906	13.3	24

39	Experimental nephrotic syndrome induced in the rat by puromycin aminonucleoside: hepatic synthesis of neutral lipids and phospholipids from 3H-water and 3H-palmitate. <i>Lipids</i> , <b>1980</b> , 15, 108-12	1.6	24
38	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> , <b>2015</b> , 6, 6147-6157	9.4	23
37	Growth factors and cell movement. <i>European Journal of Cancer &amp; Clinical Oncology</i> , <b>1991</b> , 27, 403-5		23
36	Crystal structure of the beta-chain of human hepatocyte growth factor-like/macrophage stimulating protein. <i>FEBS Journal</i> , <b>2005</b> , 272, 5799-807	5.7	21
35	Hepatocyte growth factor/scatter factor and MET are involved in arterial repair and atherogenesis. <i>American Journal of Pathology</i> , <b>2006</b> , 168, 340-8	5.8	20
34	Plasma and urine lipoproteins during the development of nephrotic syndrome induced in the rat by adriamycin. <i>Experimental and Molecular Pathology</i> , <b>1983</b> , 39, 282-99	4.4	20
33	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> , <b>1995</b> , 178, 241-51	2.5	19
32	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> , <b>2002</b> , 319, 283-8	6.5	18
31	A single-step procedure for cloning and selection of antibody-secreting hybridomas. <i>Journal of Immunological Methods</i> , <b>1990</b> , 126, 61-8	2.5	18
30	Chemical and morphological changes of rat plasma lipoproteins after a prolonged administration of diets containing olive oil and cholesterol. <i>Atherosclerosis</i> , <b>1977</b> , 28, 369-87	3.1	18
29	Experimental nephrotic syndrome in the rat induced by puromycin aminonucleoside: hepatic synthesis of lipoproteins and apolipoproteins. <i>Lipids</i> , <b>1980</b> , 15, 858-63	1.6	17
28	Scatter factor and other regulators of cell mobility. <i>British Medical Bulletin</i> , <b>1989</b> , 45, 481-91	5.4	16
27	Cyclooxygenase-2-selective nonsteroidal anti-inflammatory drugs inhibit hepatocyte growth factor/scatter factor-induced angiogenesis. <i>Cancer Research</i> , <b>2003</b> , 63, 8351-9	10.1	16
26	Glycoprotein production for structure analysis with stable, glycosylation mutant CHO cell lines established by fluorescence-activated cell sorting. <i>Protein Science</i> , <b>2010</b> , 19, 1264-71	6.3	15
25	Human Nonalcoholic Steatohepatitis on a Chip. <i>Hepatology Communications</i> , <b>2021</b> , 5, 217-233	6	15
24	Membrane-bound apolipoprotein B is exposed at the cytosolic surface of liver microsomes. <i>FEBS Letters</i> , <b>1992</b> , 304, 24-6	3.8	14
23	Inhibition of the MET Kinase Activity and Cell Growth in MET-Addicted Cancer Cells by Bi-Paratopic Linking. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 2020-2039	6.5	13
22	Generation and characterization of novel recombinant anti-HERG1 scFv antibodies for cancer molecular imaging. <i>Oncotarget</i> , <b>2018</b> , 9, 34972-34989	3.3	11

21	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> , <b>1997</b> , 27, 618-23	6.1	10
20	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> , <b>1991</b> , 90, 81-90	3.1	9
19	Developing Antagonists for the Met-HGF/SF Protein-Protein Interaction Using a Fragment-Based Approach. <i>Molecular Cancer Therapeutics</i> , <b>2016</b> , 15, 3-14	6.1	7
18	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> , <b>2017</b> , 7, 9000	4.9	7
17	Factors affecting epithelial interactions. <i>Novartis Foundation Symposium</i> , <b>1987</b> , 125, 217-39		7
16	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> , <b>2012</b> , 21, 1528-39	6.3	6
15	Structural basis of affinity maturation of the TEPC15/Vkappa45.1 anti-2-phenyl-5-oxazolone antibodies. <i>Journal of Molecular Biology</i> , <b>2006</b> , 359, 1161-9	6.5	6
14	A G2/M Cell Cycle Block in Transformed Cells by Contact with Normal Neighbours. <i>Cell Cycle</i> , <b>2003</b> , 2, 482-485	4.7	6
13	Nitric oxide modulates hepatocyte growth factor/scatter factor-induced angiogenesis. <i>Angiogenesis</i> , <b>2004</b> , 7, 285-94	10.6	6
12	Evolution of plasminogen-related growth factors (HGF/SF and HGF1/MSP). <i>Novartis Foundation Symposium</i> , <b>1997</b> , 212, 24-35; discussion 35-41, 42-5		4
11	Purification and characterization of scatter factor. <i>Exs</i> , <b>1991</b> , 59, 53-62		4
10	Crystal structure of an engineered YopM-InlB hybrid protein. <i>BMC Structural Biology</i> , <b>2014</b> , 14, 12	2.7	2
9	The distribution of apolipoprotein B in endoplasmic reticulum and Golgi subfractions of rabbit liver. <i>Biochemical Society Transactions</i> , <b>1990</b> , 18, 1181	5.1	2
8	A minimal hepatocyte growth factor mimic acting as a powerful agonist of the MET receptor tyrosine kinase for regeneration of epithelial tissues and organs		1
7	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> , <b>2020</b> , 21,	6.3	1
6	Establishing Mammalian Production Cell Lines for Structural Biology by Site-Specific Recombination <b>2012</b> , 265-268		
5	Towards a molecular understanding of neural induction. <i>Biology of the Cell</i> , <b>1995</b> , 84, 90-90	3.5	
4	Topography of apolipoprotein B in subcellular fractions from rabbit liver. <i>Biochemical Society Transactions</i> , <b>1993</b> , 21, 126S	5.1	

3 Chairman's Summing-Up. *Novartis Foundation Symposium*, 252-253

2 Domain structure of hepatocyte growth factor/scatter factor (HGF/SF). *Novartis Foundation Symposium*, **1997**, 212, 84-93; discussion 93-104

1 Engineered HGF/SF Variants Promote Angiogenesis. *FASEB Journal*, **2009**, 23, 934.9

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