

Luca Varani

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

5,387
citations

159585

30
h-index

182427

51
g-index

62
all docs

62
docs citations

62
times ranked

10184
citing authors

#	ARTICLE	IF	CITATIONS
1	Specificity, cross-reactivity, and function of antibodies elicited by Zika virus infection. <i>Science</i> , 2016, 353, 823-826.	12.6	675
2	Mutually exclusive redox forms of HMGB1 promote cell recruitment or proinflammatory cytokine release. <i>Journal of Experimental Medicine</i> , 2012, 209, 1519-1528.	8.5	590
3	HMGB1 promotes recruitment of inflammatory cells to damaged tissues by forming a complex with CXCL12 and signaling via CXCR4. <i>Journal of Experimental Medicine</i> , 2012, 209, 551-563.	8.5	539
4	The Human Immune Response to Dengue Virus Is Dominated by Highly Cross-Reactive Antibodies Endowed with Neutralizing and Enhancing Activity. <i>Cell Host and Microbe</i> , 2010, 8, 271-283.	11.0	526
5	Translocon component Sec62 acts in endoplasmic reticulum turnover during stress recovery. <i>Nature Cell Biology</i> , 2016, 18, 1173-1184.	10.3	350
6	Prophylactic and postexposure efficacy of a potent human monoclonal antibody against MERS coronavirus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10473-10478.	7.1	198
7	A public antibody lineage that potently inhibits malaria infection through dual binding to the circumsporozoite protein. <i>Nature Medicine</i> , 2018, 24, 401-407.	30.7	183
8	The Tim-3-galectin-9 Secretory Pathway is Involved in the Immune Escape of Human Acute Myeloid Leukemia Cells. <i>EBioMedicine</i> , 2017, 22, 44-57.	6.1	167
9	Gold Nanoparticles Downregulate Interleukin-1 β -Induced Pro-inflammatory Responses. <i>Small</i> , 2013, 9, 472-477.	10.0	165
10	Balance of Anti-CD123 Chimeric Antigen Receptor Binding Affinity and Density for the Targeting of Acute Myeloid Leukemia. <i>Molecular Therapy</i> , 2017, 25, 1933-1945.	8.2	126
11	The NMR structure of the 38 kDa U1A protein - PIE RNA complex reveals the basis of cooperativity in regulation of polyadenylation by human U1A protein. <i>Nature Structural Biology</i> , 2000, 7, 329-335.	9.7	124
12	The Tim-3-Galectin-9 Pathway and Its Regulatory Mechanisms in Human Breast Cancer. <i>Frontiers in Immunology</i> , 2019, 10, 1594.	4.8	119
13	A Human Bi-specific Antibody against Zika Virus with High Therapeutic Potential. <i>Cell</i> , 2017, 171, 229-241.e15.	28.9	118
14	Bispecific IgG neutralizes SARS-CoV-2 variants and prevents escape in mice. <i>Nature</i> , 2021, 593, 424-428.	27.8	108
15	Heterologous immunization with inactivated vaccine followed by mRNA-booster elicits strong immunity against SARS-CoV-2 Omicron variant. <i>Nature Communications</i> , 2022, 13, 2670.	12.8	108
16	Partially folded structure of monomeric bovine β -lactoglobulin. <i>FEBS Letters</i> , 1996, 381, 237-243.	2.8	103
17	Recognition and inhibition of SARS-CoV-2 by humoral innate immunity pattern recognition molecules. <i>Nature Immunology</i> , 2022, 23, 275-286.	14.5	95
18	Label-Free Biosensor Detection of Endocrine Disrupting Compounds Using Engineered Estrogen Receptors. <i>Biosensors</i> , 2018, 8, 1.	4.7	90

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19	SARS-CoV-2 neutralizing human recombinant antibodies selected from pre-pandemic healthy donors binding at RBD-ACE2 interface. <i>Nature Communications</i> , 2021, 12, 1577.	12.8	73
20	Refinement of the structure of protein-RNA complexes by residual dipolar coupling analysis. <i>Journal of Biomolecular NMR</i> , 1999, 14, 149-155.	2.8	69
21	Changes in side-chain and backbone dynamics identify determinants of specificity in RNA recognition by human U1A protein. <i>Journal of Molecular Biology</i> , 1999, 294, 967-979.	4.2	68
22	Computational Docking of Antibody-Antigen Complexes, Opportunities and Pitfalls Illustrated by Influenza Hemagglutinin. <i>International Journal of Molecular Sciences</i> , 2011, 12, 226-251.	4.1	66
23	The immune receptor Tim-3 acts as a trafficker in a Tim-3/galectin-9 autocrine loop in human myeloid leukemia cells. <i>Oncolmmunology</i> , 2016, 5, e1195535.	4.6	56
24	Immunity to SARS-CoV-2 up to 15 months after infection. <i>IScience</i> , 2022, 25, 103743.	4.1	56
25	The immune receptor Tim-3 mediates activation of PI3 kinase/mTOR and HIF-1 pathways in human myeloid leukaemia cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 59, 11-20.	2.8	53
26	Ligand-Receptor Interactions of Galectin-9 and VISTA Suppress Human T Lymphocyte Cytotoxic Activity. <i>Frontiers in Immunology</i> , 2020, 11, 580557.	4.8	50
27	Differential expression and biochemical activity of the immune receptor Tim-3 in healthy and malignant human myeloid cells. <i>Oncotarget</i> , 2015, 6, 33823-33833.	1.8	49
28	Solution mapping of T cell receptor docking footprints on peptide-MHC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13080-13085.	7.1	45
29	Epitope mapping by solution NMR spectroscopy. <i>Journal of Molecular Recognition</i> , 2015, 28, 393-400.	2.1	34
30	High mobility group box 1 (HMGB1) acts as an "alarmin" to promote acute myeloid leukaemia progression. <i>Oncolmmunology</i> , 2018, 7, e1438109.	4.6	34
31	Rational Engineering of a Human Anti-Dengue Antibody through Experimentally Validated Computational Docking. <i>PLoS ONE</i> , 2013, 8, e55561.	2.5	31
32	Rapid Structural Characterization of Human Antibody-Antigen Complexes through Experimentally Validated Computational Docking. <i>Journal of Molecular Biology</i> , 2010, 396, 1491-1507.	4.2	28
33	Elucidation of the Interleukin-15 Binding Site on Its Alpha Receptor by NMR. <i>Biochemistry</i> , 2007, 46, 9453-9461.	2.5	27
34	Interleukin-1 beta induces the expression and production of stem cell factor by epithelial cells: crucial involvement of the PI-3K/mTOR pathway and HIF-1 transcription complex. <i>Cellular and Molecular Immunology</i> , 2016, 13, 47-56.	10.5	24
35	Machine learning analyses of antibody somatic mutations predict immunoglobulin light chain toxicity. <i>Nature Communications</i> , 2021, 12, 3532.	12.8	23
36	A bispecific immunotweezer prevents soluble PrP oligomers and abolishes prion toxicity. <i>PLoS Pathogens</i> , 2018, 14, e1007335.	4.7	21

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37	Opening Study on the Development of a New Biosensor for Metal Toxicity Based on <i>Pseudomonas fluorescens</i> Pyoverdine. <i>Biosensors</i> , 2013, 3, 385-399.	4.7	20
38	Receptor-based high-throughput screening and identification of estrogens in dietary supplements using bioaffinity liquid-chromatography ion mobility mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9427-9436.	3.7	19
39	Highly specific targeting of human acute myeloid leukaemia cells using pharmacologically active nanoconjugates. <i>Nanoscale</i> , 2018, 10, 5827-5833.	5.6	19
40	Ligands binding to the prion protein induce its proteolytic release with therapeutic potential in neurodegenerative proteinopathies. <i>Science Advances</i> , 2021, 7, eabj1826.	10.3	18
41	Nuclear Magnetic Resonance Methods to Study Structure and Dynamics of RNA-Protein Complexes. <i>Methods in Enzymology</i> , 2001, 339, 357-376.	1.0	16
42	Rational engineering of the lcc ² <i>T. versicolor</i> laccase for the mediator-less oxidation of large polycyclic aromatic hydrocarbons. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2213-2222.	4.1	16
43	Antibody Binding Modulates Conformational Exchange in Domain III of Dengue Virus E Protein. <i>Journal of Virology</i> , 2016, 90, 1802-1811.	3.4	13
44	Mapping Antibody Epitopes by Solution NMR Spectroscopy: Practical Considerations. <i>Methods in Molecular Biology</i> , 2018, 1785, 29-51.	0.9	11
45	Rational Modification of Estrogen Receptor by Combination of Computational and Experimental Analysis. <i>PLoS ONE</i> , 2014, 9, e102658.	2.5	8
46	Systematic Development of Peptide Inhibitors Targeting the CXCL12/HMGB1 Interaction. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 13439-13450.	6.4	8
47	Effects of Antibody Responses to Pre-Existing Coronaviruses on Disease Severity and Complement Activation in COVID-19 Patients. <i>Microorganisms</i> , 2022, 10, 1191.	3.6	6
48	Reply to: Hultström et al., Genetic determinants of mannose-binding lectin activity predispose to thromboembolic complications in critical COVID-19. <i>Mannose-binding lectin genetics in COVID-19. Nature Immunology</i> , 2022, 23, 865-867.	14.5	4
49	[14] Nuclear magnetic resonance methods to study RNA-protein complexes. <i>Methods in Enzymology</i> , 2000, 317, 198-220.	1.0	3
50	Rationally Modified Estrogen Receptor Protein as a Bio-Recognition Element for the Detection of EDC Pollutants: Strategies and Opportunities. <i>International Journal of Environmental Research and Public Health</i> , 2015, 12, 2612-2621.	2.6	2
51	The Diversity of Nuclear Magnetic Resonance Spectroscopy. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009, , 65-81.	0.3	0
52	Mutually exclusive redox forms of HMGB1 promote cell recruitment or proinflammatory cytokine release. <i>Journal of General Physiology</i> , 2012, 140, i3-i3.	1.9	0
53	RNA Structure and RNA-Protein Recognition During Regulation of Eukaryotic Gene Expression. , 1999, , 195-216.		0