

Tomonori Nochi

List of Publications by Year in descending order

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101
papers

6,494
citations

76196

40
h-index

64668

79
g-index

108
all docs

108
docs citations

108
times ranked

7843
citing authors

#	ARTICLE	IF	CITATIONS
1	Uptake through glycoprotein 2 of FimH+ bacteria by M cells initiates mucosal immune response. <i>Nature</i> , 2009, 462, 226-230.	13.7	544
2	Nanogel antigenic protein-delivery system for adjuvant-free intranasal vaccines. <i>Nature Materials</i> , 2010, 9, 572-578.	13.3	433
3	Intestinal villous M cells: An antigen entry site in the mucosal epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6110-6115.	3.3	423
4	Rice-based mucosal vaccine as a global strategy for cold-chain- and needle-free vaccination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10986-10991.	3.3	317
5	RANKL Is Necessary and Sufficient to Initiate Development of Antigen-Sampling M Cells in the Intestinal Epithelium. <i>Journal of Immunology</i> , 2009, 183, 5738-5747.	0.4	282
6	Neutrophil Proteinase 3-Mediated Induction of Bioactive IL-18 Secretion by Human Oral Epithelial Cells. <i>Journal of Immunology</i> , 2001, 167, 6568-6575.	0.4	271
7	Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors. <i>Nature Communications</i> , 2012, 3, 1034.	5.8	243
8	Indigenous opportunistic bacteria inhabit mammalian gut-associated lymphoid tissues and share a mucosal antibody-mediated symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7419-7424.	3.3	197
9	Generation of HIV Latency in Humanized BLT Mice. <i>Journal of Virology</i> , 2012, 86, 630-634.	1.5	180
10	A novel M cell-specific carbohydrate-targeted mucosal vaccine effectively induces antigen-specific immune responses. <i>Journal of Experimental Medicine</i> , 2007, 204, 2789-2796.	4.2	168
11	Comprehensive Gene Expression Profiling of Peyer's Patch M Cells, Villous M-Like Cells, and Intestinal Epithelial Cells. <i>Journal of Immunology</i> , 2008, 180, 7840-7846.	0.4	160
12	Intracellularly Expressed TLR2s and TLR4s Contribution to an Immunosilent Environment at the Ocular Mucosal Epithelium. <i>Journal of Immunology</i> , 2004, 173, 3337-3347.	0.4	143
13	Microbiota maintain colonic homeostasis by activating TLR2/MyD88/PI3K signaling in IL-10-producing regulatory B cells. <i>Journal of Clinical Investigation</i> , 2019, 129, 3702-3716.	3.9	127
14	Nanogel-Based PspA Intranasal Vaccine Prevents Invasive Disease and Nasal Colonization by <i>Streptococcus pneumoniae</i> . <i>Infection and Immunity</i> , 2013, 81, 1625-1634.	1.0	126
15	Role of Peyer's patches in the induction of <i>Helicobacter pylori</i> -induced gastritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8971-8976.	3.3	123
16	Secretory IgA-mediated protection against <i>V. cholerae</i> and heat-labile enterotoxin-producing enterotoxigenic <i>Escherichia coli</i> by rice-based vaccine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8794-8799.	3.3	117
17	Lipopolysaccharide (LPS)-binding protein stimulates CD14-dependent Toll-like receptor 4 internalization and LPS-induced TBK1-IKK μ -IRF3 axis activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 10186-10201.	1.6	117
18	Immunological commonalities and distinctions between airway and digestive immunity. <i>Trends in Immunology</i> , 2008, 29, 505-513.	2.9	112

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19	Antigen-sampling cells in the salmonid intestinal epithelium. <i>Developmental and Comparative Immunology</i> , 2010, 34, 768-774.	1.0	109
20	The Airway Antigen Sampling System: Respiratory M Cells as an Alternative Gateway for Inhaled Antigens. <i>Journal of Immunology</i> , 2011, 186, 4253-4262.	0.4	91
21	Transcriptomic Analysis of the Innate Antiviral Immune Response in Porcine Intestinal Epithelial Cells: Influence of Immunobiotic Lactobacilli. <i>Frontiers in Immunology</i> , 2017, 8, 57.	2.2	90
22	IL-2 receptor β -chain molecule is critical for intestinal T-cell reconstitution in humanized mice. <i>Mucosal Immunology</i> , 2012, 5, 555-566.	2.7	85
23	Human Breast Milk and Antiretrovirals Dramatically Reduce Oral HIV-1 Transmission in BLT Humanized Mice. <i>PLoS Pathogens</i> , 2012, 8, e1002732.	2.1	82
24	A Rice-Based Oral Cholera Vaccine Induces Macaque-Specific Systemic Neutralizing Antibodies but Does Not Influence Pre-Existing Intestinal Immunity. <i>Journal of Immunology</i> , 2009, 183, 6538-6544.	0.4	79
25	Heat Stress Causes Immune Abnormalities via Massive Damage to Effect Proliferation and Differentiation of Lymphocytes in Broiler Chickens. <i>Frontiers in Veterinary Science</i> , 2020, 7, 46.	0.9	79
26	Immunobiotic Bifidobacteria Strains Modulate Rotavirus Immune Response in Porcine Intestinal Epitheliocytes via Pattern Recognition Receptor Signaling. <i>PLoS ONE</i> , 2016, 11, e0152416.	1.1	77
27	Establishment of a Poliovirus Oral Infection System in Human Poliovirus Receptor-Expressing Transgenic Mice That Are Deficient in Alpha/Beta Interferon Receptor. <i>Journal of Virology</i> , 2007, 81, 7902-7912.	1.5	75
28	Peyer's Patches Are Required for Intestinal Immunoglobulin A Responses to <i>Salmonella</i> spp. <i>Infection and Immunity</i> , 2008, 76, 927-934.	1.0	74
29	Rice-based oral antibody fragment prophylaxis and therapy against rotavirus infection. <i>Journal of Clinical Investigation</i> , 2013, 123, 3829-3838.	3.9	73
30	Id2-, ROR γ t-, and LT β R-independent initiation of lymphoid organogenesis in ocular immunity. <i>Journal of Experimental Medicine</i> , 2009, 206, 2351-2364.	4.2	66
31	Induction of toxin-specific neutralizing immunity by molecularly uniform rice-based oral cholera toxin B subunit vaccine without plant-associated sugar modification. <i>Plant Biotechnology Journal</i> , 2013, 11, 799-808.	4.1	64
32	M cells expressing the complement C5a receptor are efficient targets for mucosal vaccine delivery. <i>European Journal of Immunology</i> , 2011, 41, 3219-3229.	1.6	63
33	Nef functions in BLT mice to enhance HIV-1 replication and deplete CD4+CD8+ thymocytes. <i>Retrovirology</i> , 2012, 9, 44.	0.9	60
34	Nanoformulations of Rilpivirine for Topical Pericoital and Systemic Coitus-Independent Administration Efficiently Prevent HIV Transmission. <i>PLoS Pathogens</i> , 2015, 11, e1005075.	2.1	60
35	Cryptopatches Are Essential for the Development of Human GALT. <i>Cell Reports</i> , 2013, 3, 1874-1884.	2.9	58
36	Innate Immunity in the Mucosal Immune System. <i>Current Pharmaceutical Design</i> , 2006, 12, 4203-4213.	0.9	55

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37	New horizon of mucosal immunity and vaccines. <i>Current Opinion in Immunology</i> , 2009, 21, 352-358.	2.4	52
38	Distinct fucosylation of M cells and epithelial cells by Fut1 and Fut2, respectively, in response to intestinal environmental stress. <i>Biochemical and Biophysical Research Communications</i> , 2011, 404, 822-828.	1.0	46
39	Development of Human-like Advanced Coronary Plaques in Low-density Lipoprotein Receptor Knockout Pigs and Justification for Statin Treatment Before Formation of Atherosclerotic Plaques. <i>Journal of the American Heart Association</i> , 2016, 5, e002779.	1.6	46
40	Modulation of porcine intestinal epitheliocytes immunetranscriptome response by <i>Lactobacillus jensenii</i> TL2937. <i>Beneficial Microbes</i> , 2016, 7, 769-782.	1.0	46
41	The Well-Developed Mucosal Immune Systems of Birds and Mammals Allow for Similar Approaches of Mucosal Vaccination in Both Types of Animals. <i>Frontiers in Nutrition</i> , 2018, 5, 60.	1.6	42
42	Oral Mucorice expressing double-mutant cholera toxin A and B subunits induces toxin-specific neutralising immunity. <i>Vaccine</i> , 2009, 27, 5982-5988.	1.7	41
43	NFIL3-Deficient Mice Develop Microbiota-Dependent, IL-12/23-driven Spontaneous Colitis. <i>Journal of Immunology</i> , 2014, 192, 1918-1927.	0.4	41
44	Vaginal Memory T Cells Induced by Intranasal Vaccination Are Critical for Protective T Cell Recruitment and Prevention of Genital HSV-2 Disease. <i>Journal of Virology</i> , 2014, 88, 13699-13708.	1.5	34
45	Isolation and Immunocharacterization of <i>Lactobacillus salivarius</i> from the Intestine of Wakame-Fed Pigs to Develop Novel "Immunosynbiotics". <i>Microorganisms</i> , 2019, 7, 167.	1.6	34
46	Biological characterisation of a recombinant Atlantic salmon type I interferon synthesized in <i>Escherichia coli</i> . <i>Fish and Shellfish Immunology</i> , 2008, 24, 506-513.	1.6	32
47	Nanogel-based antigen-delivery system for nasal vaccines. <i>Biotechnology and Genetic Engineering Reviews</i> , 2013, 29, 61-72.	2.4	32
48	In Vivo Molecular Imaging Analysis of a Nasal Vaccine That Induces Protective Immunity against Botulism in Nonhuman Primates. <i>Journal of Immunology</i> , 2010, 185, 5436-5443.	0.4	31
49	Transcriptome Analysis of The Inflammatory Responses of Bovine Mammary Epithelial Cells: Exploring Immunomodulatory Target Genes for Bovine Mastitis. <i>Pathogens</i> , 2020, 9, 200.	1.2	31
50	RNAi suppression of rice endogenous storage proteins enhances the production of rice-based Botulinum neurotoxin type A vaccine. <i>Vaccine</i> , 2012, 30, 4160-4166.	1.7	30
51	ART influences HIV persistence in the female reproductive tract and cervicovaginal secretions. <i>Journal of Clinical Investigation</i> , 2016, 126, 892-904.	3.9	30
52	Immunoregulatory effects triggered by immunobiotic <i>Lactobacillus jensenii</i> TL2937 strain involve efficient phagocytosis in porcine antigen presenting cells. <i>BMC Immunology</i> , 2016, 17, 21.	0.9	26
53	Critical role of intestinal interleukin-4 modulating regulatory T cells for desensitization, tolerance, and inflammation of food allergy. <i>PLoS ONE</i> , 2017, 12, e0172795.	1.1	25
54	Peyer's Patches and Mesenteric Lymph Nodes Cooperatively Promote Enteropathy in a Mouse Model of Food Allergy. <i>PLoS ONE</i> , 2014, 9, e107492.	1.1	24

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55	The gut microbiota induces Peyer's patch-dependent secretion of maternal IgA into milk. <i>Cell Reports</i> , 2021, 36, 109655.	2.9	24
56	Biological role of Ep-CAM in the physical interaction between epithelial cells and lymphocytes in intestinal epithelium. <i>Clinical Immunology</i> , 2004, 113, 326-339.	1.4	23
57	A soluble nonglycosylated recombinant infectious hematopoietic necrosis virus (IHNV) G-protein induces IFNs in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish and Shellfish Immunology</i> , 2008, 25, 170-180.	1.6	22
58	Selection of Immunobiotic <i>Ligilactobacillus salivarius</i> Strains from the Intestinal Tract of Wakame-Fed Pigs: Functional and Genomic Studies. <i>Microorganisms</i> , 2020, 8, 1659.	1.6	21
59	Hypogammaglobulinemia in BLT Humanized Mice " An Animal Model of Primary Antibody Deficiency. <i>PLoS ONE</i> , 2014, 9, e108663.	1.1	20
60	Development of an in vitro immunobiotic evaluation system against rotavirus infection in bovine intestinal epitheliocytes. <i>Beneficial Microbes</i> , 2017, 8, 309-321.	1.0	20
61	Development of immune and microbial environments is independently regulated in the mammary gland. <i>Mucosal Immunology</i> , 2018, 11, 643-653.	2.7	20
62	Norovirus-specific immunoglobulin A in breast milk for protection against norovirus-associated diarrhea among infants. <i>EClinicalMedicine</i> , 2020, 27, 100561.	3.2	20
63	Localization of interleukin-18 and its receptor in somatotrophs of the bovine anterior pituitary gland. <i>Cell and Tissue Research</i> , 2005, 322, 455-462.	1.5	19
64	<i>Ligilactobacillus salivarius</i> Strains Isolated From the Porcine Gut Modulate Innate Immune Responses in Epithelial Cells and Improve Protection Against Intestinal Viral-Bacterial Superinfection. <i>Frontiers in Immunology</i> , 2021, 12, 652923.	2.2	19
65	Progress towards an AIDS mucosal vaccine: An overview. <i>Tuberculosis</i> , 2007, 87, S35-S44.	0.8	18
66	Development of a rational framework for the therapeutic efficacy of fecal microbiota transplantation for calf diarrhea treatment. <i>Microbiome</i> , 2022, 10, 31.	4.9	18
67	Fermented Rice Bran Supplementation Prevents the Development of Intestinal Fibrosis Due to DSS-Induced Inflammation in Mice. <i>Nutrients</i> , 2021, 13, 1869.	1.7	15
68	Expression of newly identified secretory CEACAM1a isoforms in the intestinal epithelium. <i>Biochemical and Biophysical Research Communications</i> , 2009, 383, 340-346.	1.0	14
69	<i>Staphylococcus aureus</i> -specific IgA antibody in milk suppresses the multiplication of <i>S. aureus</i> in infected bovine udder. <i>BMC Veterinary Research</i> , 2019, 15, 286.	0.7	14
70	Gut microbiota development in mice is affected by hydrogen peroxide produced from amino acid metabolism during lactation. <i>FASEB Journal</i> , 2019, 33, 3343-3352.	0.2	13
71	Extracellular cyclophilin A possesses chemotactic activity in cattle. <i>Veterinary Research</i> , 2015, 46, 80.	1.1	11
72	Advanced Application of Porcine Intramuscular Adipocytes for Evaluating Anti-Adipogenic and Anti-Inflammatory Activities of Immunobiotics. <i>PLoS ONE</i> , 2015, 10, e0119644.	1.1	11

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73	Fermented rice bran supplementation attenuates chronic colitis-associated extraintestinal manifestations in female C57BL/6N mice. <i>Journal of Nutritional Biochemistry</i> , 2022, 99, 108855.	1.9	10
74	Differential expression of CD11c defines two types of tissue-resident macrophages with different origins in steady-state salivary glands. <i>Scientific Reports</i> , 2022, 12, 931.	1.6	10
75	Organogenesis of Ileal Peyer's Patches Is Initiated Prenatally and Accelerated Postnatally With Comprehensive Proliferation of B Cells in Pigs. <i>Frontiers in Immunology</i> , 2020, 11, 604674.	2.2	9
76	Effects of a moderate-fat diet that is enriched with fish oil on intestinal lipid absorption in a senescence-accelerated prone mouse model. <i>Nutrition</i> , 2018, 50, 26-35.	1.1	8
77	Specific Expression of Apolipoprotein A-IV in the Follicle-Associated Epithelium of the Small Intestine. <i>Digestive Diseases and Sciences</i> , 2014, 59, 2682-2692.	1.1	7
78	Phenotypic and functional analysis of bovine peripheral blood dendritic cells before parturition by a novel purification method. <i>Animal Science Journal</i> , 2018, 89, 1011-1019.	0.6	6
79	Paraimmunobiotic Bifidobacteria Modulate the Expression Patterns of Peptidoglycan Recognition Proteins in Porcine Intestinal Epitheliocytes and Antigen Presenting Cells. <i>Cells</i> , 2019, 8, 891.	1.8	6
80	In vivo emergence of beige-like fat in chickens as physiological adaptation to cold environments. <i>Amino Acids</i> , 2021, 53, 381-393.	1.2	6
81	Localization of fatty acid binding protein of epidermal type common to dendritic cells and presumptive macrophages in Peyer's patches and epithelial M cells of mouse intestine. <i>Histochemistry and Cell Biology</i> , 2009, 132, 577-584.	0.8	5
82	Elucidation of the Effects of a Current X-SCID Therapy on Intestinal Lymphoid Organogenesis Using an In Vivo Animal Model. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 10, 83-100.	2.3	5
83	Chemerin Regulates Epithelial Barrier Function of Mammary Glands in Dairy Cows. <i>Animals</i> , 2021, 11, 3194.	1.0	5
84	Cyclophilin A is a new M cell marker of bovine intestinal epithelium. <i>Cell and Tissue Research</i> , 2016, 364, 585-597.	1.5	4
85	Identification of a novel mechanism of action of bovine IgG antibodies specific for <i>Staphylococcus aureus</i> . <i>Veterinary Research</i> , 2018, 49, 22.	1.1	3
86	L-Alanine Prototrophic Suppressors Emerge from L-Alanine Auxotroph through Stress-Induced Mutagenesis in <i>Escherichia coli</i> . <i>Microorganisms</i> , 2021, 9, 472.	1.6	2
87	The mucosal immune system for secretory IgA responses and mucosal vaccine development. <i>Inflammation and Regeneration</i> , 2010, 30, 40-47.	1.5	2
88	Linkage between innate and acquired immunities at the mucosa. <i>International Congress Series</i> , 2005, 1285, 84-93.	0.2	1
89	Editorial: New Horizons in Food Science via Agricultural Immunity. <i>Frontiers in Nutrition</i> , 2020, 7, 19.	1.6	1
90	Self-Assembled Polysaccharide Nanogels for Nasal Delivery of Biopharmaceuticals. , 2014, , 325-332.		1

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91	Development of effective protein delivery system to mucosa-associated lymphoid tissues (MALT) with M cell-targeting technology. <i>Drug Delivery System</i> , 2008, 23, 529-533.	0.0	1
92	Impact of the Mouse IL-2R β Chain on Lymphoid Tissue Development and Human Reconstitution in Immunodeficient Mice. , 2014, , 61-73.		1
93	Roles of mannosylerythritol lipid-B components in antimicrobial activity against bovine mastitis-causing <i>Staphylococcus aureus</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2022, 38, 54.	1.7	1
94	867 NFIL3 Deficient Mice Develop Severe Innate Immune Mediated Spontaneous Colitis. <i>Gastroenterology</i> , 2012, 142, S-149.	0.6	0
95	Mo1747 Intestinal IL-10-Producing B Cells Induced by Commensal Bacteria May Contribute to Maintenance of Mucosal Homeostasis. <i>Gastroenterology</i> , 2012, 142, S-676.	0.6	0
96	IL-12p40 gene expression in lung and hilar lymph nodes of MPS-1-resistant pigs. <i>Animal Science Journal</i> , 2020, 91, e13450.	0.6	0
97	A novel M cell-specific carbohydrate-targeted mucosal vaccine effectively induces antigen-specific immune responses. <i>Journal of Cell Biology</i> , 2007, 179, i8-i8.	2.3	0
98	Influence of commensal bacteria on the induction of UEA-1 + NK1.6 + cells in small intestine. <i>FASEB Journal</i> , 2008, 22, 851.4.	0.2	0
99	A subunit type of botulinum mucosal vaccine effectively induces protective immunity in non-human primates. <i>FASEB Journal</i> , 2008, 22, 853.4.	0.2	0
100	Prion Protein Binds to Aldolase A Produced by Bovine Intestinal M Cells. <i>Open Journal of Veterinary Medicine</i> , 2015, 05, 43-60.	0.4	0
101	Effect of Beta-carotene on Fecal IgA in Japanese Black Calves. <i>Nippon Juishikai Zasshi Journal of the Japan Veterinary Medical Association</i> , 2019, 72, 344-347.	0.0	0