Tomonori Nochi

List of Publications by Year
in descending order

101	6,494	76326 40	64796 79
papers	citations	h-index	g-index

108	108	108	7843
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uptake through glycoprotein 2 of FimH+ bacteria by M cells initiates mucosal immune response. Nature, 2009, 462, 226-230.	27.8	544
2	Nanogel antigenic protein-delivery system for adjuvant-free intranasal vaccines. Nature Materials, 2010, 9, 572-578.	27.5	433
3	Intestinal villous M cells: An antigen entry site in the mucosal epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6110-6115.	7.1	423
4	Rice-based mucosal vaccine as a global strategy for cold-chain- and needle-free vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10986-10991.	7.1	317
5	RANKL Is Necessary and Sufficient to Initiate Development of Antigen-Sampling M Cells in the Intestinal Epithelium. Journal of Immunology, 2009, 183, 5738-5747.	0.8	282
6	Neutrophil Proteinase 3-Mediated Induction of Bioactive IL-18 Secretion by Human Oral Epithelial Cells. Journal of Immunology, 2001, 167, 6568-6575.	0.8	271
7	Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors. Nature Communications, 2012, 3, 1034.	12.8	243
8	Indigenous opportunistic bacteria inhabit mammalian gut-associated lymphoid tissues and share a mucosal antibody-mediated symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7419-7424.	7.1	197
9	Generation of HIV Latency in Humanized BLT Mice. Journal of Virology, 2012, 86, 630-634.	3.4	180
10	A novel M cellâ€“specific carbohydrate-targeted mucosal vaccine effectively induces antigen-specific immune responses. Journal of Experimental Medicine, 2007, 204, 2789-2796.	8.5	168
11	Comprehensive Gene Expression Profiling of Peyerâ€™s Patch M Cells, Villous M-Like Cells, and Intestinal Epithelial Cells. Journal of Immunology, 2008, 180, 7840-7846.	0.8	160
12	Intracellularly Expressed TLR2s and TLR4s Contribution to an Immunosilent Environment at the Ocular Mucosal Epithelium. Journal of Immunology, 2004, 173, 3337-3347.	0.8	143
13	Microbiota maintain colonic homeostasis by activating TLR2/MyD88/PI3K signaling in IL-10â€“producing regulatory B cells. Journal of Clinical Investigation, 2019, 129, 3702-3716.	8.2	127
14	Nanogel-Based PspA Intranasal Vaccine Prevents Invasive Disease and Nasal Colonization by Streptococcus pneumoniae. Infection and Immunity, 2013, 81, 1625-1634.	2.2	126
15	Role of Peyer's patches in the induction of Helicobacter pylori-induced gastritis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8971-8976.	7.1	123
16	Secretory IgA-mediated protection againstV. choleraeand heat-labile enterotoxin-producing enterotoxigenicEscherichia coliby rice-based vaccine. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8794-8799.	7.1	117
17	Lipopolysaccharide (LPS)-binding protein stimulates CD14-dependent Toll-like receptor 4 internalization and LPS-induced TBK1â€“IKKÏµâ€“IRF3 axis activation. Journal of Biological Chemistry, 2018, 293, 10186-10201.	3.4	117
18	Immunological commonalities and distinctions between airway and digestive immunity. Trends in Immunology, 2008, 29, 505-513.	6.8	112

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19	Antigen-sampling cells in the salmonid intestinal epithelium. Developmental and Comparative Immunology, 2010, 34, 768-774.	2.3	109
20	The Airway Antigen Sampling System: Respiratory M Cells as an Alternative Gateway for Inhaled Antigens. Journal of Immunology, 2011, 186, 4253-4262.	0.8	91
21	Transcriptomic Analysis of the Innate Antiviral Immune Response in Porcine Intestinal Epithelial Cells: Influence of Immunobiotic Lactobacilli. Frontiers in Immunology, 2017, 8, 57.	4.8	90
22	IL-2 receptor Î³-chain molecule is critical for intestinal T-cell reconstitution in humanized mice. Mucosal Immunology, 2012, 5, 555-566.	6.0	85
23	Human Breast Milk and Antiretrovirals Dramatically Reduce Oral HIV-1 Transmission in BLT Humanized Mice. PLoS Pathogens, 2012, 8, e1002732.	4.7	82
24	A Rice-Based Oral Cholera Vaccine Induces Macaque-Specific Systemic Neutralizing Antibodies but Does Not Influence Pre-Existing Intestinal Immunity. Journal of Immunology, 2009, 183, 6538-6544.	0.8	79
25	Heat Stress Causes Immune Abnormalities via Massive Damage to Effect Proliferation and Differentiation of Lymphocytes in Broiler Chickens. Frontiers in Veterinary Science, 2020, 7, 46.	2.2	79
26	Immunobiotic Bifidobacteria Strains Modulate Rotavirus Immune Response in Porcine Intestinal Epitheliocytes via Pattern Recognition Receptor Signaling. PLoS ONE, 2016, 11, e0152416.	2.5	77
27	Establishment of a Poliovirus Oral Infection System in Human Poliovirus Receptor-Expressing Transgenic Mice That Are Deficient in Alpha/Beta Interferon Receptor. Journal of Virology, 2007, 81, 7902-7912.	3.4	75
28	Peyer's Patches Are Required for Intestinal Immunoglobulin A Responses toSalmonellaspp. Infection and Immunity, 2008, 76, 927-934.	2.2	74
29	Rice-based oral antibody fragment prophylaxis and therapy against rotavirus infection. Journal of Clinical Investigation, 2013, 123, 3829-3838.	8.2	73
30	Id2-, RORÎ³t-, and LTÎ²R-independent initiation of lymphoid organogenesis in ocular immunity. Journal of Experimental Medicine, 2009, 206, 2351-2364.	8.5	66
31	Induction of toxinâ€specific neutralizing immunity by molecularly uniform riceâ€based oral cholera toxin B subunit vaccine without plantâ€associated sugar modification. Plant Biotechnology Journal, 2013, 11, 799-808.	8.3	64
32	M cells expressing the complement C5a receptor are efficient targets for mucosal vaccine delivery. European Journal of Immunology, 2011, 41, 3219-3229.	2.9	63
33	Nef functions in BLT mice to enhance HIV-1 replication and deplete CD4+CD8+ thymocytes. Retrovirology, 2012, 9, 44.	2.0	60
34	Nanoformulations of Rilpivirine for Topical Pericoital and Systemic Coitus-Independent Administration Efficiently Prevent HIV Transmission. PLoS Pathogens, 2015, 11, e1005075.	4.7	60
35	Cryptopatches Are Essential for the Development of Human GALT. Cell Reports, 2013, 3, 1874-1884.	6.4	58
36	Innate Immunity in the Mucosal Immune System. Current Pharmaceutical Design, 2006, 12, 4203-4213.	1.9	55

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37	New horizon of mucosal immunity and vaccines. Current Opinion in Immunology, 2009, 21, 352-358.	5.5	52
38	Distinct fucosylation of M cells and epithelial cells by Fut1 and Fut2, respectively, in response to intestinal environmental stress. Biochemical and Biophysical Research Communications, 2011, 404, 822-828.	2.1	46
39	Development of Humanâ€Like Advanced Coronary Plaques in Lowâ€Density Lipoprotein Receptor Knockout Pigs and Justification for Statin Treatment Before Formation of Atherosclerotic Plaques. Journal of the American Heart Association, 2016, 5, e002779.	3.7	46
40	Modulation of porcine intestinal epitheliocytes immunetranscriptome response by Lactobacillus jensenii TL2937. Beneficial Microbes, 2016, 7, 769-782.	2.4	46
41	The Well-Developed Mucosal Immune Systems of Birds and Mammals Allow for Similar Approaches of Mucosal Vaccination in Both Types of Animals. Frontiers in Nutrition, 2018, 5, 60.	3.7	42
42	Oral MucoRice expressing double-mutant cholera toxin A and B subunits induces toxin-specific neutralising immunity. Vaccine, 2009, 27, 5982-5988.	3.8	41
43	NFIL3-Deficient Mice Develop Microbiota-Dependent, IL-12/23â€“Driven Spontaneous Colitis. Journal of Immunology, 2014, 192, 1918-1927.	0.8	41
44	Vaginal Memory T Cells Induced by Intranasal Vaccination Are Critical for Protective T Cell Recruitment and Prevention of Genital HSV-2 Disease. Journal of Virology, 2014, 88, 13699-13708.	3.4	34
45	Isolation and Immunocharacterization of Lactobacillus salivarius from the Intestine of Wakame-Fed Pigs to Develop Novel â€œImmunosynbioticsâ€• Microorganisms, 2019, 7, 167.	3.6	34
46	Biological characterisation of a recombinant Atlantic salmon type I interferon synthesized in Escherichia coli. Fish and Shellfish Immunology, 2008, 24, 506-513.	3.6	32
47	Nanogel-based antigen-delivery system for nasal vaccines. Biotechnology and Genetic Engineering Reviews, 2013, 29, 61-72.	6.2	32
48	In Vivo Molecular Imaging Analysis of a Nasal Vaccine That Induces Protective Immunity against Botulism in Nonhuman Primates. Journal of Immunology, 2010, 185, 5436-5443.	0.8	31
49	Transcriptome Analysis of The Inflammatory Responses of Bovine Mammary Epithelial Cells: Exploring Immunomodulatory Target Genes for Bovine Mastitis. Pathogens, 2020, 9, 200.	2.8	31
50	RNAi suppression of rice endogenous storage proteins enhances the production of rice-based Botulinum neutrotoxin type A vaccine. Vaccine, 2012, 30, 4160-4166.	3.8	30
51	ART influences HIV persistence in the female reproductive tract and cervicovaginal secretions. Journal of Clinical Investigation, 2016, 126, 892-904.	8.2	30
52	Immunoregulatory effects triggered by immunobiotic Lactobacillus jensenii TL2937 strain involve efficient phagocytosis in porcine antigen presenting cells. BMC Immunology, 2016, 17, 21.	2.2	26
53	Critical role of intestinal interleukin-4 modulating regulatory T cells for desensitization, tolerance, and inflammation of food allergy. PLoS ONE, 2017, 12, e0172795.	2.5	25
54	Peyerâ€™s Patches and Mesenteric Lymph Nodes Cooperatively Promote Enteropathy in a Mouse Model of Food Allergy. PLoS ONE, 2014, 9, e107492.	2.5	24

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55	The gut microbiota induces Peyerâ€™s-patch-dependent secretion of maternal IgA into milk. Cell Reports, 2021, 36, 109655.	6.4	24
56	Biological role of Ep-CAM in the physical interaction between epithelial cells and lymphocytes in intestinal epithelium. Clinical Immunology, 2004, 113, 326-339.	3.2	23
57	A soluble nonglycosylated recombinant infectious hematopoietic necrosis virus (IHNV) G-protein induces IFNs in rainbow trout (Oncorhynchus mykiss). Fish and Shellfish Immunology, 2008, 25, 170-180.	3.6	22
58	Selection of Immunobiotic Ligilactobacillus salivarius Strains from the Intestinal Tract of Wakame-Fed Pigs: Functional and Genomic Studies. Microorganisms, 2020, 8, 1659.	3.6	21
59	Hypogammaglobulinemia in BLT Humanized Mice â€“ An Animal Model of Primary Antibody Deficiency. PLoS ONE, 2014, 9, e108663.	2.5	20
60	Development of an in vitro immunobiotic evaluation system against rotavirus infection in bovine intestinal epitheliocytes. Beneficial Microbes, 2017, 8, 309-321.	2.4	20
61	Development of immune and microbial environments is independently regulated in the mammary gland. Mucosal Immunology, 2018, 11, 643-653.	6.0	20
62	Norovirus-specific immunoglobulin A in breast milk for protection against norovirus-associated diarrhea among infants. EClinicalMedicine, 2020, 27, 100561.	7.1	20
63	Localization of interleukin-18 and its receptor in somatotrophs of the bovine anterior pituitary gland. Cell and Tissue Research, 2005, 322, 455-462.	2.9	19
64	Ligilactobacillus salivarius Strains Isolated From the Porcine Gut Modulate Innate Immune Responses in Epithelial Cells and Improve Protection Against Intestinal Viral-Bacterial Superinfection. Frontiers in Immunology, 2021, 12, 652923.	4.8	19
65	Progress towards an AIDS mucosal vaccine: An overview. Tuberculosis, 2007, 87, S35-S44.	1.9	18
66	Development of a rational framework for the therapeutic efficacy of fecal microbiota transplantation for calf diarrhea treatment. Microbiome, 2022, 10, 31.	11.1	18
67	Fermented Rice Bran Supplementation Prevents the Development of Intestinal Fibrosis Due to DSS-Induced Inflammation in Mice. Nutrients, 2021, 13, 1869.	4.1	15
68	Expression of newly identified secretory CEACAM1a isoforms in the intestinal epithelium. Biochemical and Biophysical Research Communications, 2009, 383, 340-346.	2.1	14
69	Staphylococcus aureus-specific IgA antibody in milk suppresses the multiplication of S. aureus in infected bovine udder. BMC Veterinary Research, 2019, 15, 286.	1.9	14
70	Gut microbiota development in mice is affected by hydrogen peroxide produced from amino acid metabolism during lactation. FASEB Journal, 2019, 33, 3343-3352.	0.5	13
71	Extracellular cyclophilin A possesses chemotaxic activity in cattle. Veterinary Research, 2015, 46, 80.	3.0	11
72	Advanced Application of Porcine Intramuscular Adipocytes for Evaluating Anti-Adipogenic and Anti-Inflammatory Activities of Immunobiotics. PLoS ONE, 2015, 10, e0119644.	2.5	11

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73	Fermented rice bran supplementation attenuates chronic colitis-associated extraintestinal manifestations in female C57BL/6N mice. Journal of Nutritional Biochemistry, 2022, 99, 108855.	4.2	10
74	Differential expression of CD11c defines two types of tissue-resident macrophages with different origins in steady-state salivary glands. Scientific Reports, 2022, 12, 931.	3.3	10
75	Organogenesis of Ileal Peyer's Patches Is Initiated Prenatally and Accelerated Postnatally With Comprehensive Proliferation of B Cells in Pigs. Frontiers in Immunology, 2020, 11, 604674.	4.8	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. Nutrition, 2018, 50, 26-35.	2.4	8
77	Specific Expression of Apolipoprotein A-IV in the Follicle-Associated Epithelium of the Small Intestine. Digestive Diseases and Sciences, 2014, 59, 2682-2692.	2.3	7
78	Phenotypic and functional analysis of bovine peripheral blood dendritic cells before parturition by a novel purification method. Animal Science Journal, 2018, 89, 1011-1019.	1.4	6
79	Paraimmunobiotic Bifidobacteria Modulate the Expression Patterns of Peptidoglycan Recognition Proteins in Porcine Intestinal Epitheliocytes and Antigen Presenting Cells. Cells, 2019, 8, 891.	4.1	6
80	In vivo emergence of beige-like fat in chickens as physiological adaptation to cold environments. Amino Acids, 2021, 53, 381-393.	2.7	6
81	Localization of fatty acid binding protein of epidermal type common to dendritic cells and presumptive macrophages in Peyerâ€™s patches and epithelial M cells of mouse intestine. Histochemistry and Cell Biology, 2009, 132, 577-584.	1.7	5
82	Elucidation of the Effects of a Current X-SCID Therapy on Intestinal Lymphoid Organogenesis Using an InÂVivo Animal Model. Cellular and Molecular Gastroenterology and Hepatology, 2020, 10, 83-100.	4.5	5
83	Chemerin Regulates Epithelial Barrier Function of Mammary Glands in Dairy Cows. Animals, 2021, 11, 3194.	2.3	5
84	Cyclophilin A is a new M cell marker of bovine intestinal epithelium. Cell and Tissue Research, 2016, 364, 585-597.	2.9	4
85	Identification of a novel mechanism of action of bovine IgG antibodies specific for Staphylococcus aureus. Veterinary Research, 2018, 49, 22.	3.0	3
86	L-Alanine Prototrophic Suppressors Emerge from L-Alanine Auxotroph through Stress-Induced Mutagenesis in Escherichia coli. Microorganisms, 2021, 9, 472.	3.6	2
87	The mucosal immune system for secretory IgA responses and mucosal vaccine development. Inflammation and Regeneration, 2010, 30, 40-47.	3.7	2
88	Linkage between innate and acquired immunities at the mucosa. International Congress Series, 2005, 1285, 84-93.	0.2	1
89	Editorial: New Horizons in Food Science via Agricultural Immunity. Frontiers in Nutrition, 2020, 7, 19.	3.7	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. Drug Delivery System, 2008, 23, 529-533.	0.0	1
92	Impact of the Mouse IL-2RÎ³ 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 Staphylococcus aureus. World Journal of Microbiology and Biotechnology, 2022, 38, 54.	3.6	1
94	867 NFIL3 Deficient Mice Develop Severe Innate Immune Mediated Spontaneous Colitis. Gastroenterology, 2012, 142, S-149.	1.3	0
95	Mo1747 Intestinal IL-10-Producing B Cells Induced by Commensal Bacteria May Contribute to Maintenance of Mucosal Homeostasis. Gastroenterology, 2012, 142, S-676.	1.3	0
96	ILâ€12p40 gene expression in lung and hilar lymph nodes of MPSâ€resistant pigs. Animal Science Journal, 2020, 91, e13450.	1.4	0
97	A novel M cellâ€“specific carbohydrate-targeted mucosal vaccine effectively induces antigen-specific immune responses. Journal of Cell Biology, 2007, 179, i8-i8.	5.2	0
98	Influence of commensal bacteria on the induction of UEAâ€1 + NKMâ€16â€2â€4 + cells in small intestine. FASEB Journal, 2008, 22, 851.4.	0.5	0
99	A subunit type of botulinum mucosal vaccine effectively induces protective immunity in nonâ€human primates. FASEB Journal, 2008, 22, 853.4.	0.5	0
100	Prion Protein Binds to Aldolase A Produced by Bovine Intestinal M Cells. Open Journal of Veterinary Medicine, 2015, 05, 43-60.	0.4	0
101	Effect of Beta-carotene on Fecal IgA in Japanese Black Calves. Nippon Juishikai Zasshi Journal of the Japan Veterinary Medical Association, 2019, 72, 344-347.	0.1	0