

Tomonori Nochi

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97
papers

5,096
citations

37
h-index

71
g-index

107
ext. papers

5,957
ext. citations

6.9
avg, IF

4.79
L-index

#	Paper	IF	Citations
97	Uptake through glycoprotein 2 of FimH(+) bacteria by M cells initiates mucosal immune response. <i>Nature</i> , 2009 , 462, 226-30	50.4	443
96	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, 6110-5	11.5	373
95	Nanogel antigenic protein-delivery system for adjuvant-free intranasal vaccines. <i>Nature Materials</i> , 2010 , 9, 572-8	27	370
94	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, 10986-91	11.5	276
93	Neutrophil proteinase 3-mediated induction of bioactive IL-18 secretion by human oral epithelial cells. <i>Journal of Immunology</i> , 2001 , 167, 6568-75	5.3	229
92	RANKL is necessary and sufficient to initiate development of antigen-sampling M cells in the intestinal epithelium. <i>Journal of Immunology</i> , 2009 , 183, 5738-47	5.3	227
91	Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors. <i>Nature Communications</i> , 2012 , 3, 1034	17.4	190
90	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, 7419-24	11.5	169
89	A novel M cell-specific carbohydrate-targeted mucosal vaccine effectively induces antigen-specific immune responses. <i>Journal of Experimental Medicine</i> , 2007 , 204, 2789-96	16.6	159
88	Generation of HIV latency in humanized BLT mice. <i>Journal of Virology</i> , 2012 , 86, 630-4	6.6	155
87	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, 7840-6	5.3	139
86	Intracellularly expressed TLR2s and TLR4s contribution to an immunosilent environment at the ocular mucosal epithelium. <i>Journal of Immunology</i> , 2004 , 173, 3337-47	5.3	130
85	Nanogel-based PspA intranasal vaccine prevents invasive disease and nasal colonization by <i>Streptococcus pneumoniae</i> . <i>Infection and Immunity</i> , 2013 , 81, 1625-34	3.7	105
84	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, 8971-6	11.5	100
83	Immunological commonalities and distinctions between airway and digestive immunity. <i>Trends in Immunology</i> , 2008 , 29, 505-13	14.4	97
82	Antigen-sampling cells in the salmonid intestinal epithelium. <i>Developmental and Comparative Immunology</i> , 2010 , 34, 768-74	3.2	94
81	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, 8794-9	11.5	91

80	Human breast milk and antiretrovirals dramatically reduce oral HIV-1 transmission in BLT humanized mice. <i>PLoS Pathogens</i> , 2012 , 8, e1002732	7.6	78
79	The airway antigen sampling system: respiratory M cells as an alternative gateway for inhaled antigens. <i>Journal of Immunology</i> , 2011 , 186, 4253-62	5.3	74
78	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, 6538-44	5.3	66
77	IL-2 receptor β chain molecule is critical for intestinal T-cell reconstitution in humanized mice. <i>Mucosal Immunology</i> , 2012 , 5, 555-66	9.2	65
76	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	15.9	63
75	Id2-, ROR γ mat-, and LT β R-independent initiation of lymphoid organogenesis in ocular immunity. <i>Journal of Experimental Medicine</i> , 2009 , 206, 2351-64	16.6	61
74	Peyer's patches are required for intestinal immunoglobulin A responses to <i>Salmonella</i> spp. <i>Infection and Immunity</i> , 2008 , 76, 927-34	3.7	61
73	Rice-based oral antibody fragment prophylaxis and therapy against rotavirus infection. <i>Journal of Clinical Investigation</i> , 2013 , 123, 3829-38	15.9	60
72	Lipopolysaccharide (LPS)-binding protein stimulates CD14-dependent Toll-like receptor 4 internalization and LPS-induced TBK1-IKK β -IRF3 axis activation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10186-10201	5.4	59
71	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, 7902-12	6.6	58
70	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	11.6	55
69	Nanoformulations of Rilpivirine for Topical Pericoital and Systemic Coitus-Independent Administration Efficiently Prevent HIV Transmission. <i>PLoS Pathogens</i> , 2015 , 11, e1005075	7.6	52
68	Innate immunity in the mucosal immune system. <i>Current Pharmaceutical Design</i> , 2006 , 12, 4203-13	3.3	51
67	Nef functions in BLT mice to enhance HIV-1 replication and deplete CD4+CD8+ thymocytes. <i>Retrovirology</i> , 2012 , 9, 44	3.6	50
66	M cells expressing the complement C5a receptor are efficient targets for mucosal vaccine delivery. <i>European Journal of Immunology</i> , 2011 , 41, 3219-29	6.1	50
65	New horizon of mucosal immunity and vaccines. <i>Current Opinion in Immunology</i> , 2009 , 21, 352-8	7.8	47
64	Cryptopatches are essential for the development of human GALT. <i>Cell Reports</i> , 2013 , 3, 1874-84	10.6	45
63	Immunobiotic Bifidobacteria Strains Modulate Rotavirus Immune Response in Porcine Intestinal Epitheliocytes via Pattern Recognition Receptor Signaling. <i>PLoS ONE</i> , 2016 , 11, e0152416	3.7	45

62	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, 822-8	3.4	40
61	Oral MucoRice expressing double-mutant cholera toxin A and B subunits induces toxin-specific neutralising immunity. <i>Vaccine</i> , 2009 , 27, 5982-8	4.1	38
60	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	3.1	36
59	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	8.4	36
58	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	6	33
57	NFIL3-deficient mice develop microbiota-dependent, IL-12/23-driven spontaneous colitis. <i>Journal of Immunology</i> , 2014 , 192, 1918-27	5.3	31
56	Biological characterisation of a recombinant Atlantic salmon type I interferon synthesized in Escherichia coli. <i>Fish and Shellfish Immunology</i> , 2008 , 24, 506-13	4.3	30
55	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, 13699-708	6.6	29
54	RNAi suppression of rice endogenous storage proteins enhances the production of rice-based Botulinum neurotoxin type A vaccine. <i>Vaccine</i> , 2012 , 30, 4160-6	4.1	28
53	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, 5436-43	5.3	27
52	Nanogel-based antigen-delivery system for nasal vaccines. <i>Biotechnology and Genetic Engineering Reviews</i> , 2013 , 29, 61-72	4.1	23
51	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	6.2	22
50	ART influences HIV persistence in the female reproductive tract and cervicovaginal secretions. <i>Journal of Clinical Investigation</i> , 2016 , 126, 892-904	15.9	20
49	Modulation of porcine intestinal epitheliocytes immunetranscriptome response by Lactobacillus jensenii TL2937. <i>Beneficial Microbes</i> , 2016 , 7, 769-782	4.9	19
48	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, 170-80	4.3	19
47	Biological role of Ep-CAM in the physical interaction between epithelial cells and lymphocytes in intestinal epithelium. <i>Clinical Immunology</i> , 2004 , 113, 326-39	9	18
46	Peyer's patches and mesenteric lymph nodes cooperatively promote enteropathy in a mouse model of food allergy. <i>PLoS ONE</i> , 2014 , 9, e107492	3.7	17
45	Hypogammaglobulinemia in BLT humanized mice--an animal model of primary antibody deficiency. <i>PLoS ONE</i> , 2014 , 9, e108663	3.7	17

44	Localization of interleukin-18 and its receptor in somatotrophs of the bovine anterior pituitary gland. <i>Cell and Tissue Research</i> , 2005 , 322, 455-62	4.2	17
43	Progress towards an AIDS mucosal vaccine: an overview. <i>Tuberculosis</i> , 2007 , 87 Suppl 1, S35-44	2.6	16
42	Development of an in vitro immunobiotic evaluation system against rotavirus infection in bovine intestinal epitheliocytes. <i>Beneficial Microbes</i> , 2017 , 8, 309-321	4.9	15
41	Development of immune and microbial environments is independently regulated in the mammary gland. <i>Mucosal Immunology</i> , 2018 , 11, 643-653	9.2	15
40	Transcriptome Analysis of The Inflammatory Responses of Bovine Mammary Epithelial Cells: Exploring Immunomodulatory Target Genes for Bovine Mastitis. <i>Pathogens</i> , 2020 , 9,	4.5	14
39	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	3.7	12
38	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	3.7	12
37	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	0.9	11
36	Staphylococcus aureus-specific IgA antibody in milk suppresses the multiplication of S. aureus in infected bovine udder. <i>BMC Veterinary Research</i> , 2019 , 15, 286	2.7	10
35	Expression of newly identified secretory CEACAM1(a) isoforms in the intestinal epithelium. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 383, 340-6	3.4	10
34	Isolation and Immunocharacterization of from the Intestine of Wakame-Fed Pigs to Develop Novel "Immunosynbiotics". <i>Microorganisms</i> , 2019 , 7,	4.9	7
33	Extracellular cyclophilin A possesses chemotaxic activity in cattle. <i>Veterinary Research</i> , 2015 , 46, 80	3.8	7
32	Norovirus-specific immunoglobulin A in breast milk for protection against norovirus-associated diarrhea among infants. <i>EClinicalMedicine</i> , 2020 , 27, 100561	11.3	7
31	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	4.8	7
30	The gut microbiota induces Peyer's patch-dependent secretion of maternal IgA into milk. <i>Cell Reports</i> , 2021 , 36, 109655	10.6	7
29	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	8.4	5
28	Specific expression of apolipoprotein A-IV in the follicle-associated epithelium of the small intestine. <i>Digestive Diseases and Sciences</i> , 2014 , 59, 2682-92	4	5
27	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, 577-84	2.4	5

26	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	7.9	4
25	Advanced application of porcine intramuscular adipocytes for evaluating anti-adipogenic and anti-inflammatory activities of immunobiotics. <i>PLoS ONE</i> , 2015 , 10, e0119644	3.7	4
24	Selection of Immunobiotic Strains from the Intestinal Tract of Wakame-Fed Pigs: Functional and Genomic Studies. <i>Microorganisms</i> , 2020 , 8,	4.9	3
23	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	1.8	3
22	Fermented Rice Bran Supplementation Prevents the Development of Intestinal Fibrosis Due to DSS-Induced Inflammation in Mice. <i>Nutrients</i> , 2021 , 13,	6.7	3
21	In vivo emergence of beige-like fat in chickens as physiological adaptation to cold environments. <i>Amino Acids</i> , 2021 , 53, 381-393	3.5	3
20	Fermented rice bran supplementation attenuates chronic colitis-associated extraintestinal manifestations in female C57BL/6N mice. <i>Journal of Nutritional Biochemistry</i> , 2022 , 99, 108855	6.3	3
19	Identification of a novel mechanism of action of bovine IgG antibodies specific for <i>Staphylococcus aureus</i> . <i>Veterinary Research</i> , 2018 , 49, 22	3.8	2
18	Paraimmunobiotic Bifidobacteria Modulate the Expression Patterns of Peptidoglycan Recognition Proteins in Porcine Intestinal Epitheliocytes and Antigen Presenting Cells. <i>Cells</i> , 2019 , 8,	7.9	2
17	Cyclophilin A is a new M cell marker of bovine intestinal epithelium. <i>Cell and Tissue Research</i> , 2016 , 364, 585-597	4.2	1
16	Linkage between innate and acquired immunities at the mucosa. <i>International Congress Series</i> , 2005 , 1285, 84-93		1
15	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	4.9	1
14	The mucosal immune system for secretory IgA responses and mucosal vaccine development. <i>Inflammation and Regeneration</i> , 2010 , 30, 40-47	10.9	1
13	L-Alanine Prototrophic Suppressors Emerge from L-Alanine Auxotroph through Stress-Induced Mutagenesis in. <i>Microorganisms</i> , 2021 , 9,	4.9	1
12	Self-Assembled Polysaccharide Nanogels for Nasal Delivery of Biopharmaceuticals 2014 , 325-332		1
11	Development of a rational framework for the therapeutic efficacy of fecal microbiota transplantation for calf diarrhea treatment.. <i>Microbiome</i> , 2022 , 10, 31	16.6	1
10	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	8.4	0
9	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	4.4	

- 8 A novel M cell-specific carbohydrate-targeted mucosal vaccine effectively induces antigen-specific immune responses. *Journal of Cell Biology*, **2007**, 179, i8-i8 7.3
- 7 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
- 6 Influence of commensal bacteria on the induction of UEA-1+ NKM-16-2-4+ cells in small intestine. *FASEB Journal*, **2008**, 22, 851.4 0.9
- 5 A subunit type of botulinum mucosal vaccine effectively induces protective immunity in non-human primates. *FASEB Journal*, **2008**, 22, 853.4 0.9
- 4 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
- 3 Prion Protein Binds to Aldolase A Produced by Bovine Intestinal M Cells. *Open Journal of Veterinary Medicine*, **2015**, 05, 43-60 0.3
- 2 Impact of the Mouse IL-2R β Chain on Lymphoid Tissue Development and Human Reconstitution in Immunodeficient Mice **2014**, 61-73
- 1 IL-12p40 gene expression in lung and hilar lymph nodes of MPS-resistant pigs. *Animal Science Journal*, **2020**, 91, e13450 1.8