

## 研究成果の刊行に関する一覧

## 刊行物一覽

### 1. 発表論文

1. Yashiro K, Lowenthal JW, O'Neil TE, Ebisu S, Takagi H, Moore RJ. 2001. High-level production of recombinant chicken interferon-gamma by *Brevibacillus choshinensis*. *Protein. Expr. Purif.* 23(1):113-20
2. Kim, J-K., Takahashi, I., Okuda, Y., Itakura, M., McGhee, J.R. and Kiyono, H. 2001. T cell receptor dynamism of mucosal and systemic CD4<sup>+</sup> T cells in the course of an immune response to *Escherichia coli* heat-labile enterotoxin. *J. Infect. Dis.* 184 : 43-51.
3. Kim, J-K., Takahashi, I. Kai, Y. and Kiyono, H. 2001. Influence of enterotoxin on mucosal intranet : selective inhibition of extrathymic T cell development in intestinal intraepithelial lymphocytes by oral exposure to heat-labile toxin. *Eur. J. Immunol.* 31: 2960-2969.
4. Byun Y., Ohmura, M., Fuhimashi, K., Yamamoto, S., McGhee, J.R., Udaka, S., Kiyono, H., Takeda, Y., Kohsaka, T. and Yuki, Y. 2001. Nasal immunization with *E. coli* verotoxin 1 (VT1)-B subunit and a nontoxic mutant of cholera toxin elicits serum neutralizing antibodies. *Vaccine* 19 : 2061-2070.
5. Saito, M., Otake, S., Ohmura, M., Hirasawa, M., Takeda, K., Mega, J., Takahashi, I., Kiyono, H., McGhee, J.R., Takeda, Y. and Yamamoto, M. 2001. Protective immunity to *Streptococcus mutans* induced by nasal vaccination with surface protein antigen and mutant cholera toxin adjuvant. *J. Infect. Dis.* 183 : 823-826.
6. Fujihashi, K., Dohi, T., Rennert, P.D., Yamamoto, M., Koga, T., Kiyono, H. and McGhee, J.R. 2001. Peyer's patches are required for oral tolerance to proteins. *Proc. Natl. Acad. Sci. USA.* 98 (6) : 3310-3315.
7. Yuki, Y., Byun, Y., Fujita, M., Jaurigue, M., Izutani, W., Suzuki, T., Udaka, S., Fujihashi, K., McGhee, J.R. and Kiyono, H. 2001. Production of a recombinant hybrid molecule of cholera toxin-B-subunit and protelipid-protein-peptide for the treatment of experimental encephalomyelitis. *Biotech. Bioeng.* 74:62-69.

8. Kunisawa, J., Nakanishi T., Takahashi, I., Okudaira, A., Tsutsumi, Y., Katayama, K., Nakagawa, S., **Kiyono, H.**, and Mayumi, T. 2001. Novel antigen delivery system using Fusogenic liposome for the induction of mucosal and systemic immune responses. *J. Immunol.* **167**(3) : 1406-1412.
9. Hodge, L. M., Marinaro, M., Jones, H. P., McGhee, J.R., **Kiyono, H.** and Simecka, J.W 2001. IgA responses and IgE associated inflammation along the respiratory tract after mucosal but not systemic immunization. *Infect. Immun.* **69** : 2328-2338.
10. Jones, H.P., Hodge, L.M., Fujihashi, K., **Kiyono, H.**, McGhee, J.R. and Simecka, J.W. 2001. The pulmonary environment promotes Th2 cell responses after nasal-pulmonary immunization with antigen alone, but Th1 responses are induced during instances of intense immune stimulation. *J. Immunol.* **167**: 4518-4526.
11. Yura, M., Takahashi, I., Serada, M., Koshino, T., Nakagami, K., Yuki, Y. and **Kiyono, H.** 2001. Role of MOG-stimulated Th1 type "light-up" (GFP<sup>+</sup>) CD4<sup>+</sup> T cells for the development of experimental autoimmune encephalomyelitis. *J. Autoimmunity* **17**:17-25.
12. Yura, M., Takahashi, I., Terawaki, S., Hiroi, T., Kweon, M., Yuki, Y. and **Kiyono, H.** 2001. Nasal administration of cholera toxin (CT) suppresses clinical signs of experimental autoimmune encephalomyelitis (EAE). *Vaccine.* **12** : 134-139.
13. Dohi, T., Rennert, P.D., Fujihashi, K., **Kiyono, H.**, Shirai, Y., Kawamura, Y.I., Browning, J.L. and McGhee, J.R. 2001. Elimination of colonic patches with linphotoxin  $\beta$  receptor-Ig prevents Th2 cell-type colitis. *J. Immunol.* **167**(5) :2781-2790.
14. Simizu, M., Minakuchi, K., Tuda, A., Hiroi, T., Tanaka, N., Koga, J. and **Kiyono, H.** 2001. A role of stem cell factor and *c-kit* signaling for the organogenesis of intestine : regulation of fetal intestinal epithelial cell adhesion to fibronectin. *Exp. Cell Res.* **266** : 311-322.
15. Imaoka, H., Shimaoka, M., Matsuura, N., Nishimura, M., Ohta, N. and **Kiyono, H.** 2001. Ventilator-induced lung injury is associated with neutrophil infiltration, macrophage activation, and TGF- $\beta$ 1 mRNA upregulation in rat lungs. *Anesth Analg.* **92**: 428-436.

16. Ohta, N., Shimaoka, M., Imanaka, H., Nishura, M., Taenaka, N. and **Kiyono, H.** 2001. Steroid attenuates ventilator-induced lung injury. *Crit. Care Med.* **29** : 1012-1016.
17. Sakaue, G., Shimaoka, M., Fukuoka, T., Hiroi, T., Inoue, T., Sakaguchi, T., Sawa, Y., Morishita, T., **Kiyono, H.** and Mashimo, T. 2001. NF-kB "decoy" suppresses cytokine expression and thermal hyperalgesia in a rat neuropathic pain model. *Neuroreport* **12**: 2079-2084.
18. Hiroi, T., Goto, H., Someya, K., Yanagita, M., Honda, M., Yamanaka, N. and **Kiyono, H.** 2001. HIV mucosal vaccine : nasal immunization with rBCG-V3J1 induces a long-term V3J1-peptide-specific neutralizing immunity in Th1 and Th2 deficient conditions. *J. Immunol.* **167** : 5862-5867.
19. Ohmura, M., Yamamoto, M., **Kiyono, H.**, Fujihashi, K., Takeda, Y. and McGhee, J.R. 2001. Highly purified mutant E112K of cholera toxin elicits protective lung mucosal immunity to diphtheria toxin. *Vaccine* **20**: 756-762.
20. Hagiwara, Y., Tsuji, T., Iwasaki, T., Kadowaki, S., Asanuma, H., Chen Z., **Komase, K.**, Suzuki, Y., Aizawa, C., Kurata, T., and **Tamura, S.** 2001. Effectiveness and safety of mutant *Escherichia coli* heat-labile enterotoxin (LT H44A) as an adjuvant for nasal influenza vaccine. *Vaccine*; **19** :2071-2079.
21. Nakayama, T., **Komase, K.**, Uzuka, R., Hoshi, A., and Okafuji, T. 2001. Leucine at position 278 of the AIK-C measles virus vaccine strain fusion protein is responsible for reduced syncytium formation. *J. Gen. Virol.* **82**; 2143-2150.
22. Hagiwara, Y., Iwasaki, T., Asanumuma, H., Sato, Y., Sata, T., Aizawa, C., Kurata, T. and **Tamura, S.** 2001. Effects of intranasal administration of cholera toxin (or *Escherichia coli* heat-labile enterotoxin) B subunits supplemented with a trace amount of the holotoxin on the brain. *Vaccine* **19**:1652-1660.

## 2. 総説

1. Yamamoto, M., McGhee, J.R., Hagiwara, Y., Otake, S. and **Kiyono, H.** 2001. Genetically manipulated bacterial toxin as a new generation mucosal adjuvant. *Scand. J. Immunol.* 53 : 211-217.
2. Iijima, H., Takahashi, I. and **Kiyono, H.** 2001. Mucosal immune network in the gut for the control of infectious diseases. *Rev. Med. Virol.* 11 : 117-133.
3. Kweon, M-N., Takahashi, I. and **Kiyono, H.** 2001. New insights into mechanism of inflammation and allergic diseases in mucosal tissues. *Digestion*, 63 (Sup1) : 1-11.
4. **Kiyono, H.**, Kweon, M-N., Hiroi, T. and Takahashi, I. 2001. The mucosal immune system : from specialized immune defence to inflammation and allergy. *Acta. Odontol. Scand.* 59 : 145-153.
5. Schenck, K. and **Kiyono, H.** 2001. Innate and acquired immunity, cytokines, and genetic factors in relation to the mucosal immune system. *Acta. Odontol. Scand.* 59 : 121-123.
6. Fujihashi, K., Kato, H., van Ginkel, F.W., Koga, T., Boyaka, P.N., Jackson, R.J., Kato, R., Hagiwara, Y., Etani, Y., Goma, I., Fujihashi, K., **Kiyono, H.** and McGhee, J.R. 2001. A revisit of mucosal IgA immunity and oral tolerance. *Acta. Odontol. Scand.* 59 : 301-308.
7. Schenck, K., **Kiyono, H.**, Helgeland, K., Steinsvoll, S. and Taylor, B. 2001. Proceedings of the conference "New Frontiers in Oral Immunological Diseases" Lillehammer, Norway, 2001. Part 3. Immunological tolerance; the good, the bad, and the ugly. *Acta. Odontol. Scand.* 59 : 297-300.
8. **Kiyono, H.** 2001. Mucosal immune system: close encounter in the uncharted world of immunology. *Ophthalmologica.* 215: Suppl 1: 22-32.

## 原著論文

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