

- 第 17 回分子寄生虫学ワークショップ、  
草津町、8/6-9、2009。
- 44) 佐野 桂、畑 昌幸、坪井敬文、上田  
貴志、由比良子、伊藤喜重、中野明彦、  
北 潔、室伏きみ子、佐々木成江  
熱帯熱マラリア原虫ミトコンドリア  
DNA polymerase の解析  
第 8 回分子寄生虫・マラリア研究フォー  
ラム、豊中市、10/9-10、2009。
- 45) 大槻 均、石野智子、金子 修、橘 真由  
美、坪井敬文、鳥居本美  
ネズミマラリア原虫赤血球結合タンパ  
ク(EBL)の細胞内輸送ドメインの機能解  
析  
第 8 回分子寄生虫・マラリア研究フォー  
ラム、豊中市、10/9-10、2009。
- 46) 北村 圭、熊谷 貴、Bethel Bentum K、三  
田村俊秀、坪井敬文、太田伸生  
熱帯熱マラリア原虫のオートファジー  
関連分子  
第 8 回分子寄生虫・マラリア研究フォー  
ラム、豊中市、10/9-10、2009。
- 47) Akira Kaneko, Luis Fernando Chaves,  
George Taleo, Hedvig Perlmann, Hideaki  
Eto, Satoru Takeo, Takafumi Tsuboi, Chris  
Drakeley, Kazuyuki Tanabe, Marita  
Troye-Blomberg *Plasmodium vivax*  
resurgence a decade after malaria  
elimination on Aneityum island.  
第 8 回分子寄生虫・マラリア研究フォー  
ラム、豊中市、10/9-10、2009。
- 48) 竹尾 暁、坂本寛和、金子隆昌、埜本竜  
宏、Jetsumon Sattabongkot、坪井敬文  
熱帯熱マラリア原虫の赤血球期分子：免  
疫スクリーニングから新規抗原分子の  
解析  
第 8 回分子寄生虫・マラリア研究フォー  
ラム、豊中市、10/9-10、2009。
- 49) 竹尾 暁、坂本寛和、金子隆昌、坪井  
敬文  
赤血球期マラリアワクチン候補抗原分  
子を探索する免疫スクリーニング  
第 32 回日本分子生物学会年会、横浜、  
12/9-12、2009。
- 50) 大槻 均、金子 修、Amporn  
Thongkukiatkul、橘 真由美、入子 英幸、  
竹尾 暁、坪井 敬文、鳥居 本美  
マラリア原虫の赤血球侵入に必須な分  
子(EBL)の細胞内移行と病原性を決定す  
る部位の同定  
第 32 回日本分子生物学会年会、横浜、  
12/9-12、2009。
- 51) Takeo S, Sakamoto H, Kaneko T, Tachibana  
M, Miura K, Varma S, Sattabongkot J, Torii  
M, Tsuboi T.  
Identification of novel blood-stage vaccine  
candidates against *Plasmodium falciparum*  
by high-throughput immunoscreening.  
Adaptive and Innate Immune Responses to  
Neglected Tropical Diseases, San Diego,  
USA, January 9-11, 2010.
- 52) Miura K, Takeo S, Sakamoto H, Kaneko T,  
Varma S, Torii M, Sirima SB, Tsuboi T.  
Identification of *Plasmodium falciparum*  
blood-stage potential vaccine candidates:  
high-throughput immunoscreening approach  
with Burkina Faso children sera.  
Adaptive and Innate Immune Responses to  
Neglected Tropical Diseases, San Diego,  
USA, January 9-11, 2010.
- 53) Takeo S, Sawasaki T, Torii M, Sattabongkot  
J, Endo Y, Tsuboi T.

- Functional production of malarial parasites' proteins with wheat germ cell-free system. Keystone Symposium, Structural Genomics: Expanding the Horizons of Structural Biology, Breckenridge, USA, January 8-13, 2010.
- 54) Tsuboi T, Tachibana M, Takeo S, Sattabongkot J, Wu Y, Torii M. Sexual stage parasites and transmission-blocking antibodies. Keystone Symposium, Malaria: New Approaches to Understanding Host-Parasite Interactions, Copper Mountain, USA, April 11-16, 2010.
- 55) Chen JH, Jung JW, Wang Y, Lu F, Ha KS, Tsuboi T, Han ET. Evaluation of putative immunogenic proteins from vivax malaria blood stage by high-throughput screening assays. Keystone Symposium, Malaria: New Approaches to Understanding Host-Parasite Interactions, Copper Mountain, USA, April 11-16, 2010.
- 56) Tsuboi T, Tachibana M, Takeo S, Sattabongkot J, Wu Y, Torii M. (Invited speaker) Wheat germ cell-free system-expressed Pfs230 is an effective transmission-blocking vaccine candidate antigen. 12th International Congress of Parasitology, Melbourne, Australia, August 16-20, 2010.
- 57) Miura T, Takeo S, Otsuki H, Torii M, Tsuboi T. Erythrocyte proteome screening for interaction partners of malarial merozoite RhopH complex. 12th International Congress of Parasitology, Melbourne, Australia, August 16-20, 2010.
- 58) Ito D, Han ET, Takeo S, Thongkukiatkul A, Otsuki H, Torii M, Tsuboi T. Characterization of putative rhoptry neck protein 3 (PfRON3) in *Plasmodium falciparum* merozoite. 12th International Congress of Parasitology, Melbourne, Australia, August 16-20, 2010.
- 59) Arumugam TU, Takeo S, Thonkukiatkul A, Miura K, Otsuki H, Zhou H, Long CA, Thompson J, Healer J, Crabb B, Cowman A, Torii M, Tsuboi T. A new Pf merozoite micronemal protein is a novel blood-stage vaccine candidate antigen. 12th International Congress of Parasitology, Melbourne, Australia, August 16-20, 2010.
- 60) Sakamoto H, Takeo S, Kaneko T, Sattabongkot J, Torii M, Tsuboi T. A novel blood-stage malaria vaccine candidate with human erythrocyte binding capacity. The 10th Awaji International Forum on Infection and Immunity, Awaji, Japan. September 7-10, 2010.
- 61) Arumugam TU, Takeo S, Thonkukiatkul A, Miura K, Otsuki H, Zhou H, Long CA, Sattabongkot J, Torii M, Tsuboi T.

- Wheat germ cell-free system facilitated the identification of a novel malaria vaccine candidate.  
The 10th Awaji International Forum on Infection and Immunity, Awaji, Japan. September 7-10, 2010.
- 62) Miura T, Takeo S, Otsuki H, Sawasaki T, Endo Y, Torii M, Tsuboi T.  
RhopH complex from mouse malaria parasite interacts with erythrocyte calmyrin.  
ASTMH 59th annual meeting, Atlanta, USA, November 3-7, 2010.
- 63) Arumugam TU, Takeo S, Thonkukiatkul A, Miura K, Otsuki H, Zhou H, Long CA, Sattabongkot J, Torii M, Tsuboi T.  
Identification of a novel blood stage vaccine candidate for *Plasmodium falciparum*.  
ASTMH 59th annual meeting, Atlanta, USA, November 3-7, 2010.
- 64) 坪井 敬文(シンポジスト)  
マラリアワクチン研究の最前線-我が国発の技術による国際貢献  
厚生労働省主催、平成 21 年度 地球規模保健課題推進研究事業シンポジウム、東京、3/30、2010。
- 65) 原國哲也、宮田 健、坪井敬文、Sattabongkot Jetsumon、橋 真由美、鳥居本美、李 長春、渡部久実、松崎吾朗、新川 武  
酵母 *Pichia pastoris* 発現ネズミマラリアメロゾイト表面蛋白質 MSP1-19 のワクチン効果  
第 79 回日本寄生虫学会大会、旭川市、5/20-21、2010。
- 66) 新川 武、宮田 健、池原 歩、原國哲也、坪井敬文、Sattabongkot Jetsumon、橋 真由美、鳥居本美、松崎吾朗  
新たなワクチンプラットフォーム創製のための三部構成四価免疫賦活複合体(TITs)  
第 79 回日本寄生虫学会大会、旭川市、5/20-21、2010。
- 67) 宮田 健、原國哲也、池原 歩、坪井敬文、Sattabongkot Jetsumon、橋 真由美、鳥居本美、松崎吾朗、新川 武  
新たなワクチンプラットフォーム創製のための三部構成五価免疫賦活複合体(TIPs)  
第 79 回日本寄生虫学会大会、旭川市、5/20-21、2010。
- 68) 橋 真由美、石野智子、Jenwithisuk Rachaneeporn、Kangwanrangsang Niwat、横内ゆき、Sattabongkot Jetsumon、坪井敬文、鳥居本美  
コムギ胚芽無細胞タンパク質合成法を用いた三日熱マラリア伝搬阻止ワクチン候補抗原 Pvs230 の作製  
第 79 回日本寄生虫学会大会、旭川市、5/20-21、2010。
- 69) Jenwithisuk Rachaneeporn、Kangwanrangsang Niwat、橋真由美、石野智子、坪井敬文、鳥居本美  
A novel protein is targeted to the crystalloids of *Plasmodium yoelii* ookinetes  
第 79 回日本寄生虫学会大会、旭川市、5/20-21、2010。
- 70) 大槻 均、入子英幸、石野智子、金子 修、福本宗嗣、坪井敬文、鳥居本美  
ネズミマラリア原虫赤血球結合タンパク質(EBL)の細胞内輸送ドメインの機能解析  
第 79 回日本寄生虫学会大会、旭川市、5/20-21、2010。

- 5/20-21, 2010。
- 71) 伊藤大輔、韓銀澤、竹尾暁、Thongkuiatkul Amporn、大槻均、鳥居本美、坪井敬文  
熱帯熱マラリア原虫メロゾイト rhoptry neck protein 3 の性状解析  
第 79 回日本寄生虫学会大会、旭川市、5/20-21, 2010。
- 72) 北村圭、熊谷貴、Bentum Bethel K、三田村俊秀、坪井敬文、太田信生  
熱帯熱マラリア原虫におけるオートファジーの役割  
第 79 回日本寄生虫学会大会、旭川市、5/20-21, 2010。
- 73) 金子明、Taleo George、Chaves Luis F、Perlmann Hedvig、江藤秀顕、竹尾暁、橘真一郎、Troye-Blomberg Marita、坪井敬文、Drakeley Chris、田邊和祐  
島嶼マラリア根絶 10 年後の三日熱マラリア再燃  
第 79 回日本寄生虫学会大会、旭川市、5/20-21, 2010。
- 74) 大前比呂思、伊藤誠、中澤港、亀井喜世子、Bakotee Bernard、Suraj Eka、長岡史晃、坪井敬文、木村英作  
ソロモン諸島のマラリア調査における尿診断法の試み  
第 79 回日本寄生虫学会大会、旭川市、5/20-21, 2010。
- 75) 坪井敬文(招待講演)  
マラリアワクチン研究の最前線  
第 9 回四国免疫フォーラム、東温市、6/19, 2010。
- 76) 坪井敬文(招待講演)  
マラリアと人類:歴史は物語る  
第 114 回日本医学放射線学会中国・四国地方会、今治市、6/26, 2010。
- 77) 坂本寛和、竹尾暁、坪井敬文  
熱帯熱マラリア原虫メロゾイトの機能未知抗原 PfMSPDBL1 は赤血球侵入に関与するか?  
第 18 回分子寄生虫学ワークショップ、草津町、8/2-5, 2010。
- 78) 埴本竜宏、竹尾暁、坪井敬文  
熱帯熱マラリア原虫メロゾイト抗原タンパク質 H103 の機能解明に向けて  
第 18 回分子寄生虫学ワークショップ、草津町、8/2-5, 2010。
- 79) Thangavelu U. Arumugam、竹尾暁、Amporn Thonkuiatkul、三浦憲豊、大槻均、Carole A Long、Jetsumon Sattabongkot、鳥居本美、坪井敬文  
マイクロネームに局在する新規熱帯熱マラリア赤血球期ワクチン候補抗原の同定  
第 9 回分子寄生虫・マラリア研究フォーラム、長崎市、10/8-9, 2010。
- 80) 加藤晶、竹尾暁、Jetsumon Sattabongkot、鳥居本美、坪井敬文  
熱帯熱マラリア原虫の各侵入型原虫における新規内膜複合体関連分子の同定  
第 9 回分子寄生虫・マラリア研究フォーラム、長崎市、10/8-9, 2010。
- 81) 三浦豊和、竹尾暁、坪井敬文  
赤血球寄生期マラリア原虫の RhopH タンパク質複合体:相互作用する宿主赤血球分子の探索  
第 33 回日本分子生物学会年会、神戸市、12/7-10, 2010。
- 82) 埴本竜宏、竹尾暁、坪井敬文  
マラリア原虫メロゾイトにおける抗原タンパク質 H103 の機能解明  
第 33 回日本分子生物学会年会、神戸市、

12/7-10, 2010.

# 平成20－22年度業績

\* 研究成果の刊行に関する一覧表

\* 学会発表一覧表

## 研究成果の刊行に関する一覧表 (平成20年度)

執筆者氏名	刊行書籍又は雑誌名 (雑誌のときは雑誌名、 巻号数、論文名)	刊行書店名	巻名	ページ	刊行年
<b>プロジェクト1：細菌</b>					
Kam KM, Luey CK, Parsons MB, Cooper KL, Nair GB, Alam M, Islam MA, Cheung DT, Chu YW, Ramamurthy T, Pazhzni GP, Bhattacharya SK, Watanabe H, Terajima J, Arakawa E, Ratchtrachenchai OA, Huttayananont S, Ribot EM, Gerner-Smidt P, Swaminathan B	Evaluation and Validation of a PulseNet Standardized Pulsed-Field Gel Electrophoresis Protocol for Subtyping <i>Vibrio</i> <i>parahaemolyticus</i> : an International Multicenter Collaborative Study.	J Clin Microbiol	46 (8)	2766-2773	2008
<b>プロジェクト2：ウイルス (デング熱)</b>					
青山幾子、弓指孝 博、加瀬哲男、 高橋和郎、宇野健 司、後藤哲志、 片山智香子、中村匡 宏、塩見正司、 仁科展子、 齊藤武志、 森 登志子、穴瀬文 也、吉田英樹、 高崎智彦、 林 昌宏、 倉根一郎	チクングニヤ熱と確定診断され たインドからの輸入感染症症例	Infectious Agent Surveillance Reports	29	345-346	2008

Takasaki, T., Kotaki, A., Nishimura, K., Sato, Y., Tokuda, A., Lim, C.K., Ito, M., Tajima, S., Nerome, R., and Kurane, I.	Dengue virus type I isolated from an imported dengue patient in Japan: first isolation of dengue virus from Nepal.	Journal of Travel Medicine	15	46-49	2008
Tajima, S., Takasaki, T., and Kurane, I.	Characterization of Asn130-to-Ala mutant of dengue type 1 virus NS1 protein.	Virus Genes	36	323-329	2008

### プロジェクト4：ウイルス（風疹と CRS）

Sakata, M., Komase, K., and Nakayama, T.	Histidine at position 1042 of the p150 region of a KRT live attenuated rubella vaccine strain is responsible for the temperature sensitivity.	Vaccine	7:27 (2)	234-42	2009
駒瀬勝啓	風疹ワクチンの効果と再感染	臨床とウイルス	36 (1)	32-38	2008
駒瀬裕子、駒瀬勝啓	インフルエンザ	Medical Practice	25 (5)	787-793	2008
Chan-It W, Khamrin P, Saekhow P, Pantip C, Thongprachum A, Peerakome S, Ushijima H, Maneekarn N.	Multiple combinations of P[13]-like genotype with G3, G4, and G5 in porcine rotaviruses.	J Clin Microbiol.	46 (4)	1169-73	2008
Yan H, Koyano S, Inami Y, Yamamoto Y, Suzutani T, Mizuguchi M, Ushijima H, Kurane I, Inoue N.	Genetic variations in the gB, UL144 and UL149 genes of human cytomegalovirus strains collected from congenitally and postnatally infected Japanese children.	Arch Virol.	153 (4)	667-74	2008
Khamrin P, Okitsu S, Ushijima H, Maneekarn N.	Novel nonstructural protein 4 genetic group in rotavirus of porcine origin.	Emerg Infect Dis,	14 (4)	686-688	2008



Nguyen TA, Hoang L, Pham LD, Hoang KT, Okitsu S, Mizuguchi M, Ushijima H.	Norovirus and sapovirus infections among children with acute gastroenteritis in Ho Chi Minh City during 2005-2006.	J Trop Pediatr.	54 (2)	102-13.	2008
Rathore A, Chatterjee A, Sood V, Khan SZ, Banerjee AC, Yamamoto N, Dhole TN.	Risk for HIV-1 infection is not associated with repeat-region polymorphism in the DC-SIGN neck domain and novel genetic DC-SIGN variants among North Indians	Clin Chim Acta	391 (1-2)	1-5	2008
Pham NTK, Trinh, QD, Khamrin P, Nguyen TA, Dey SK, Phan TG, Hoang LP, Maneekarn N, Okitsu S, Ushijima H.	Sequence analysis of the capsid gene of Aichi viruses detected from Japan, Bangladesh, Thailand, and Vietnam.	J Med Virol	80 (7)	1222-1227	2008
Rathore A, Chatterjee A, Sivarama P, Yamamoto N, Singhal PK, Dhole TN	Association of RANTES_403 G/A, _28 C/G and Inl.1 T/C polymorphism with HIV-1 transmission and progression among North Indians.	J Med Virol	80 (7)	1133-1141	2008
Khamrin P, Maneekarn N, Peerakome S, Okitsu S, Mizuguchi M, Ushijima H.	Bovine Kobuviruses from Cattle with Diarrheic.	Emerg Infect Dis.	14 (6)	985-986	2008
Schröder HC, Wang X, Tremel W, Ushijima H	Müller WE. Biofabrication of biosilica-glass by living organisms.	Nat Prod Res.	25 (3)	455-474	2008
Dey SK, Islam A, Mizuguchi M, Okitsu S, Ushijima H.	Epidemiological and molecular analysis of astrovirus gastroenteritis in Dhaka City, Bangladesh.	J Trop Pediatr	54 (6)	423-425	2008
Khamrin P, Peerakome S, Malasao R, Mizuguchi M, Okitsu S, Ushijima H, Maneekarn N.	Genetic characterization of group C rotavirus isolated from a child hospitalized with acute gastroenteritis in Chiang Mai, Thailand.	Virus Genes.	37	314-321	2008

Malasao R, Maneekarn N, Khamrin P, Pantip C, Tonusin S, Ushijima H, Peerakome S.	Genetic diversity of norovirus, sapovirus, and astrovirus isolated from children hospitalized with acute gastroenteritis in Chiang Mai, Thailand.	J Med Virol	80 (10)	1749-1755	2008
Rathore A, Chatterjee A, Yamamoto N, Dhole TN.	Absence of H186R polymorphism in exon 4 of the APOBEC3G Gene among North Indian individuals.	Genet Test	12 (3)	453-456	2008
Yan H, Koyano S, Inami Y, Yamamoto Y, Suzutani T, Mizuguchi M, Ushijima H, Kurane I, Inoue N.	Genetic linkage among human cytomegalovirus glycoprotein N (gN) and gO genes, with evidence for recombination from congenitally and post-natally infected Japanese infants.	J Gen Virol	89 (pt 9)	2275-2279	2008
Khamrin P, Maneekarn N, Peerakome S, Malasao R, Thongprachum A, Chan-It W, Mizuguchi M, Okitsu S, Ushijima H.	Molecular characterization of VP4, VP6, VP7, NSP4, and NSP5/6 genes identifies an unusual G3P[10] human rotavirus strain.	J Med Virol	81 (1)	176-182	2008
Thongprachum A, Khamrin P, Saekhow P, Pantip C, Peerakome S, Ushijima H, Maneekarn N.	Analysis of the VP6 gene of human and porcine group A rotavirus strains with unusual subgroup specificities.	J Med Virol	81 (1)	183-191	2008
Pham NT, Trinh QD, Nguyen TA, Dey SK, Phan TG, Hoang LP, Khamrin P, Maneekarn N, Okitsu S, Mizuguchi M, Ushijima H.	Development of genotype-specific primers for differentiation of genotypes A and B of Aichi viruses.	J Virol Method,	[Epub ahead of print]		2008

Kittigul L, Pombubpa K, Taweekate Y, Yeephoo T, Khamrin P, Ushijima H.	Molecular characterization of rotaviruses, noroviruses, sapovirus, and adenoviruses in patients with acute gastroenteritis in Thailand.	J Med Virol	81 (2)	345-353.	2009
Dey SK, Hayakawa Y, Rhaman M, Islam R, Mizuguchi M, Okitsu S, Ushijima H.	G2 strain of rotavirus among infants and children, Bangladesh.	Emerg Infect Dis	15 (1)	91-94.	2009
Takanashi S, Hashira S, Matsunaga T, Yoshida A, Shiota T, Phan TG, Khamrin P, Okitsu S, Mizuguchi M, Igarashi T, Ushijima H.	Detection, genetic characterization, and quantification of Norovirus RNA from sera of children with gastroenteritis.	J Clin Virol	[Epub ahead of print]		2009
Khamrin P, Takanashi S, Chan-It W, Kobayashi M, Nishimura S, Katsumata N, Okitsu S, Maneekarn, N, Nishio O, Ushijima H.	Immunochromatography test for rapid detection of norovirus in fecal specimens.	J Virol Methods	[Epub ahead of print]		2009
Usami M, Trinh QD, Yagyu F, Hayakawa Y, Inaba N, Okitsu S, Phan TG, Ushijima H.	Throughput expression of multiple G-protein coupled receptors for HIV infection in choriocarcinoma cells, trophoblasts, and breast milk cells.	Clin Lab,	[in press]		2009
<b>プロジェクト5：ウイルス（狂犬病ウイルス）</b>					
Kojima, D., Chun-Ho, P., Yusuke, S., Inoue, S., Noguchi, A. and Toshifumi, O.	Pathology of the Spinal Cord of C57BL/6J Mice Infected with Rabies Virus (CVS-11 Strain).	J. V. M. S.	[in press]		2008

プロジェクト6：原虫（マラリア）

Saito-Nakano Y, Tanabe K, Kamei K, Iwagami M, Komaki-Yasuda K, Kawazu S, Kano S, Ohmae H, Endo T.	Genetic evidence for <i>Plasmodium falciparum</i> resistance to chloroquine and pyrimethamine in Indochina and the Western Pacific between 1984 and 1998.	<i>Am J Trop Med Hyg.</i>	79 (4)	613 -619	2008
Izumiyama S, Omura M, Takasaki T, Ohmae H, Asahi H.	<i>Plasmodium falciparum</i> : development and validation of a measure of intraerythrocytic growth using SYBR Green I in a flow cytometer	<i>Exp Parasitol</i>	121 (2)	144-150	2009
Nishimoto Y, Arisue N, Kawai S, Escalante A, Horii T, Tanabe K, Hashimoto T.	Evolution and phylogeny of the heterogeneous cytosolic SSU rRNA genes in the genus <i>Plasmodium</i> .	<i>Mol. Phylogenet. Evol.</i>	47	45-53	2008
Hayakawa T, Culleton R, Otani A, Horii T, Tanabe K.	Big bang in the evolution of extant malaria parasites.	<i>Mol. Biol. Evol.</i>	25	2233-2239	2008
Culleton R, Mita T, Ndounga M, Unger, P. Cravo, G. Paganotti, N. Takahashi, A. Kaneko, H. Eto, H. Tinto, C. Karema, U. D' Alessandro, V. do Rosário, T. Kobayakawa, F. Ntoumi, R. Carter, and K. Tanabe.	Failure to detect <i>Plasmodium</i> <i>vivax</i> in West and Central Africa by PCR species typing.	Malaria J	7	174	2008

T. Mita, K. Tanabe, N. Takahashi, R. Culleton, M. Ndounga, M. Dzodzomenyo, W. S. Akwale, A. Kaneko, and T. Kobayakawa	Indigenous evolution of <i>Plasmodium falciparum</i> pyrimethamine resistance multiple times in Africa.	<i>J. Antimicrob. Chemoth.</i>	63	252—255	2008
S. Cheesman, K. Tanabe, H. Sawai, E. O' Mahony, and R. Carter	Strain-specific immunity may drive adaptive polymorphism in the Merozoite Surface Protein 1 of the rodent malaria parasite <i>Plasmodium chabaudi</i> .	<i>Infect. Genet. Evol.</i>	In press		2009
Iriko H, Kaneko O, Otsuki H, Tsuboi T, Su XZ, Tanabe K, Torii M.	Diversity and evolution of the rhopH1/clag multigene family of <i>Plasmodium falciparum</i> .	<i>Mol Biochem Parasitol.</i>	158	11-21	2008
Tsuboi T, Takeo S, Iriko H, Jin L, Tsuchimochi M, Matsuda S, Han ET, Otsuki H, Kaneko O, Sattabongkot J, Udomsangpetch R, Sawasaki T, Torii M, Endo Y.	Wheat germ cell-free system-based production of malaria proteins for discovery of novel vaccine candidates.	<i>Infect Immun.</i>	76	1702 -1708	2008
Yano K, Otsuki H, Arai M, Komaki-Yasuda K, Tsuboi T, Torii M, Kano S, Kawazu S.	Disruption of the <i>Plasmodium berghei</i> 2-Cys peroxiredoxin TPx-1 gene hinders the sporozoite development in the vector mosquito	<i>Mol Biochem Parasitol.</i>	159	142-145	2008
大前比呂思, 石川洋文	気候変動と寄生虫症	資源環境対	44 (9)	29-38	2008
大前比呂思	マラリア	化学療法の領域	24 (11)	69-75	2008

研究成果の刊行に関する一覧表 (平成21年度)

執筆者氏名	刊行書籍又は雑誌名 (雑誌のときは雑誌名、 巻号数、論文名)	刊行書店名	巻名	ページ	刊行 年
<b>プロジェクト1：細菌</b>					
Morita-Ishihara T, Terajima J, Watanabe H, Izumiya H	Interaction between enterohemorrhagic <i>Escherichia coli</i> O157:H7 EspFu and IRSp53 induces dynamic membrane remodeling in epithelial cells.	Japanese Journal of Infectious Diseases	62	351-5	2009
H. Izumiya, Y. Tada, K. Ito, T. Morita-Ishihara, M. Ohnishi, J. Terajima, and H. Watanabe	Characterization of <i>Shigella sonnei</i> isolates from travel-associated cases in Japan.	J. Med. Microbiol	58 (11)	1486-1491	2009
伊豫田淳、 寺嶋淳、 泉谷秀昌、 渡邊治雄	日本国内における腸管出血性大腸 菌感染症の現況と分離株の性状	獣医畜産新報	62	801-806	2009
Honda N., Iyoda S., Yamamoto S., Terajima J., and Watanabe H	LrhA positively controls the expression of the locus of enterocyte effacement genes in enterohemorrhagic <i>Escherichia coli</i> by differential regulation of their master regulators PchA and PchB.	Mol. Microbiol.	74	1393-1411	2009
Sithivong N, Izumiya H, Munnalath K, Phouthavane T, Chomlasak K, Sisavath L, Vongdouangchanh A, Vongprachanh P, Watanabe H, and Ohinishi M.	Cholera outbreak in 2007, Lao People's Democratic Republic	Emerg. Infect. Dis.		(in press)	

Mitobe J, Morita-Ishihara T, Ishihama A, Watanabe H.	2009 Involvement of RNA-binding protein Hfq in the osmotic-response regulation of <i>invE</i> gene expression in <i>Shigella sonnei</i> .	BMC Microbiol	9	110	2009
Tokunaga, A., Yamaguchi, H., Morita, M., Arakawa, E., Izumiya, H., Watanabe, H., Osawa, R	Novel PCR-based genotyping method, using genomic variability between repetitive sequences of toxigenic <i>Vibrio cholerae</i> O1 El Tor and O139.	Mol. Cell. Probes.		(in press)	
<b>プロジェクト 2 : ウイルス (デング熱)</b>					
Lim, C.K., Nishibori, T., Watanabe, K., Ito, M., Kotaki, A., Tanaka, K., <u>Kurane, I.</u> , Takasaki, T.	Chikungunya virus isolated from a returnee to Japan from Sri Lanka: Isolation of two sub-strains with different characteristics.	<i>Am. J. Trop. Med. Hyg.</i>	81(5)	865-868	2009
Lim, C.K., <u>Kurane, I.</u> , and Takasaki, T.	Re-emergence of chikungunya virus	In Maeda, A. (ed), Animal Viruses. Transworld Research Network., Kerala, India.		1-22	2010
Aoyama, I., Uno, K., Yumisashi, T., Takasaki, T., Lim, C.K., <u>Kurane, I.</u> , Kase, T., Takahashi, K.	A case of chikungunya fever imported from India to Japan, follow-up of specific IgM and IgG antibodies over a 6-month period.	<i>Jpn. J. Infect. Dis.</i>	63(1)	65-66	2010
<u>田島茂</u> , 高崎智彦	日本脳炎	診断と診療	97 (10)	2097-2100	2009
<u>Lim, C.K.</u> , Nishibori, T., Watanabe, K., Ito, M., Kotaki, A., Tanaka, K., <u>Kurane, I.</u> , Takasaki, T.	Chikungunya virus isolated from a returnee to Japan from Sri Lanka: Isolation of two sub-strains with different characteristics.	<i>Am. J. Trop. Med. Hyg.</i>	81(5)	865-868	2009

Aoyama, I., Uno, K., Yumisashi, T., Takasaki, T., Lim, C.K., Kurane, I., Kase, T., Takahashi, K.	A Case of Chikungunya Fever Imported from India to Japan, Follow-Up of Specific IgM and IgG Antibodies over a 6-Month Period.	<i>Jpn. J. Infect. Dis.</i>	63(1)	65-66	2010
林 昌宏	チクングニヤウイルス	臨床と微生物	36(3)	211-216	2009

プロジェクト 3 : ウイルス (高病原体 H5N1 鳥インフルエンザ)

Kawakami, C., Obuchi, M., Saikusa, M., Noguchi, Y., Ujike, M., Odagiri, T., Tashiro, M.	Outbreaks of oseltamivir-resistant influenza A/H1N1 virus in an elementary school and a family in Yokohama City, Japan during the 2007-2008 season.	<i>Jpn. J. Infect. Dis.</i>	62	83-86	2009
Takahashi, Y., Hasegawa, H., Hara, Y., Ato, N., Ninomiya, A., Takagi, H., Odagiri, T., Sata, T., Tashiro, M., Kobayashi, M.	Protective immunity afforded by H5N1 (NIBRG-14) - inactivated vaccine requires both antibodies against hemagglutinin and neuraminidase in mice.	<i>J. Infect. Dis.</i>	199	1629-1637	2009
Wada, T., Morishima, T., Okumura, A., Tashiro, M., Hosoya, M., Shiomi, M., Okuno, Y	Differences in clinical manifestations of influenza-associated encephalopathy by age.	<i>Microbiol. Immunol</i>	53	83-88	2009
Ikeno, D., Kimachi, K., Kudo, Y., Goto, S., Itamura, S., Odagiri, T., Tashiro, M., Kino, Y.	The prime-boost vaccination of H5N1 heterologous strains in a mouse model	<i>Vaccine</i>	27	3121-3125	2009



Akiyama, M., Kimura, H., Tsukagoshi, H., Taira, K., Mizuta, K., Saitoh, M., Nagano , M., Sutoh, A., Noda, M., Morita, Y., Sakatsume, O., Okabe, N., Tashiro, M.	Development of assay for the detection and quantitation of measles virus nucleoprotein (N) gene using real-time reverse transcription polymerase chain reaction (real-time RT-PCR)	J. Med. Microbiol	58:	638-643	2009
Thongratsaku, S., Songserm, T., Poolkhet, C., Kondo, S., Yagi, H. Hiramatsu, H., Tashiro, M., Okada, H., Kato, K., Suzuki, Y	Determination of <i>N</i> -linked sialyl-sugar chains in the lungs of domestic cats and dogs in Thailand susceptible to the highly pathogenic avian influenza virus (H5N1).	Open Glycoscience	2	28-36	2009
Ichinohe, T., Tashiro, M., Sata, T., Hasegawa, H.	PolyI:PolyC <sub>12</sub> U adjuvant-combined intranasal vaccine protects mice against highly pathogenic H5N1 influenza virus variants.	Vaccine	27	6276-6279	2009
Tashiro, M., McKimm-Breschkin, J., Saito, T., Klimov, A., Macken, C., Zambon, M., Hayden, F.	Surveillance for neuraminidase inhibitor-resistant influenza viruses in Japan, 1996-2007.	Antiviral Therapy	14	751-761	2009

WHO/OIE/FAO H5N1 Evolution Working Group; Brown, I. H., Capua, I., Cattoli, G., Chen, H., Cox, N., Davis, T., Donis, R. O., Fouchier, R. A. M. Garten, R., Guan, Y., Kawaoka, Y., Mackenzie, J., McCauley, J., Mumford, E., Olsen, C., Perdue, M., Russell, C. A., Smith, C., Smith, D., Smith, G. J. D., Shu, Y., Tashiro, M. Vijaykrishna, D., Webster, R	Continuing progress towards a unified nomenclature for the highly pathogenic H5N1 avian influenza viruses: divergence of clade 2.2 viruses.	J. Influenza.Resp. Viral Infect	3	59-62	2009
Hishinuma-Igarashi, I., Mizuta, K., Saito, Y., Ohuchi, Y., Noda, M., Akihama, M., Sato, H., Tsukagoshi, H., Okabe, N., Tashiro, M., Kimura, H.	Phylogenetic analysis of human bocavirus (HBoV) detected from children with acute respiratory infection in Japan	J. Infection	58	311-313	2009
Sriwilajaroen, N., Wilairat, P., Hiramatsu, H., Takahashi, T., Suzuki, T., Ito, M., Ito, Y., Tashiro, M., Suzuki, Y.	Mechanisms of the action of povidone-iodine against human and avian I influenza A viruses: its effects on hemagglutination and sialidase activities.	Virology Journal	6	124	2009
Kubota, T., Matsuoka, M., Chang, T.-H., Bray, M., Jones, S., Tashiro, M., Kato, A., Ozato, K	Ebola virus VP35 interacts with the cytoplasmic dynein light chain 8.	J. Virol.	83	6952-6956	2009

Bertozzi, S., Kelso, A., Tashiro, M., Savy, V., Farrar, J., Osterholm, M., Jameel, S., Muller, C.P.	Pandemic flu: from front lines.	Nature	461	20-21	2009
Mizuta, K., Hirata, A., Suto, A., Aoki, Y., Ahiko, T., Itagaki, T., Tsukagoshi, T., Morita, Y., Obuchi, M., Akiyama, M., Okabe, N., Noda, M., Tashiro, M., Kimura, H.	Phylogenetic and cluster analysis of human rhinovirus species A (HRV-A) isolated from children with acute respiratory infections in Yamagata, Japan.	Virus Research	147	265-274	2009
Ichinohe, T., Ainai, A., Nakamura, T., Akiyama, Y., Maeyama, J., Odagiri, T., Tashiro, M., Takahashi, H., Sawa, H., Tamura, S., Chiba, J., Kurata, T., Sata, T., Hasegawa, H.	Induction of cross-protective immunity against influenza A virus H5N1 by an intranasal vaccine with extracts of mushroom mycelia	J. Med. Virol	82	128-137	2010
Nakajima, N., Hata, S., Sato, Y., Tobiume, M., Katano, H., Kaneko, K., Nagata, N., Kataoka, M., Ainai, A., Hasegawa, H., Tashiro, M., Odai, T., Urasawa, N., Ogino, T., Hanaoka, H., Watanabe, M., Sata, T	First autopsy case with pandemic influenza (A/H1N1pdm) virus infection in Japan: Detection of high copy number of the virus in type II alveolar epithelial cells by pathological and virological examination.	Jpn. J. Infect. Dis.	63	67-71	2010

プロジェクト4 : ウイルス (風疹と CRS)

Dong JB, Saito A, Mine Y, Sakuraba Y, Nibe K, Goto Y, Komase K, Nakayama T, Miyata H, Iwata H, Haga T.	Adaptation of wild-type measles virus to cotton rat lung cells: E89K mutation in matrix protein contributes to its fitness. Adaptation of wild-type measles virus to cotton rat lung cells: E89K mutation in matrix protein contributes to its fitness.	Virus Genes	Oct 14	[Epub ahead of print]	2009
Ninomiya K, Kanayama T, Fujieda N, Nakayama T, Komase K, Nagata K, Takeuchi K.	Amino acid substitution at position 464 in the haemagglutinin-neuraminidase protein of a mumps virus Urabe strain enhanced the virus growth in neuroblastoma SH-SY5Y cells.	Vaccine	27	6160-5	2009
Kato S, Ohgimoto S, Sharma LB, Kurazono S, Ayata M, Komase K, Takeda M, Takeuchi K, Ihara T, Ogura H.	Reduced ability of hemagglutinin of the CAM-70 measles virus vaccine strain to use receptors CD46 and SLAM.	Vaccine	27	3838-48	2009
Dey SK, Hayakawa Y, Rhaman M, Islam R, Mizuguchi M, Okitsu S, Ushijima H.	G2 strain of rotavirus among infants and children, Bangladesh.	Emerg Infect Dis,	Jan; 15(1)	91-94	2009
Takanashi S, Hashira S, Matsunaga T, Yoshida A, Shiota T, Phan TG, Khamrin P, Okitsu S, Mizuguchi M, Igarashi T, Ushijima H.	Detection, genetic characterization, and quantification of Norovirus RNA from sera of children with gastroenteritis.	J Clin Virol	44	161-163	2009