

Technical Review Panel Member

Curriculum Vitae

Name: Shigeyuki Kano
Nationality: Japanese
Additional languages: English
Expertise: Malaria

Qualifications

Qualification	Institution	Department	Year
PhD (Medicine)	Graduate Course of PhD program in Medical Sciences, Gunma University, Japan	Department of Parasitology	1991
Diploma (Tropical Medicine)	Institute of Medical Science, The University of Tokyo, Japan		1986
BSc (Medicine)	Gunma University School of Medicine, Japan		1986

Employment History

Employer	Position	Place	Year
National Center for Global Health and Medicine	Director, Department of Tropical Medicine and Malaria, Research Institute	Tokyo, Japan	04/2010-
International Medical Center of Japan, Ministry of Health, Labour and Welfare of Japan	Director, Department of Appropriate Technology Development and Transfer, Research Institute	Tokyo, Japan	04/1998-03/2010
Gunma University School of Medicine	Associate Professor, Department of Parasitology	Maebashi, Gunma, Japan	04/1996-03/1998
Gunma University School of Medicine	Lecturer, ditto	Maebashi, Gunma, Japan	07/1993-03/1996
Gunma University School of Medicine	Assistant Professor, ditto	Maebashi, Gunma, Japan	04/1991-06/1993

Relevant Publications (selected):

- Ken Ing Cherng Ong, Hodaka Kosugi, Sophea Thoeun, Hitomi Araki, Moe Moe Thandar, Moritoshi Iwagami, **Shigeyuki Kano**, Masamine Jimba: Glucose-6-phosphate dehydrogenase deficiency in the Greater Mekong Subregion: a systematic review of the clinical manifestations for malaria elimination and beyond. *BMJ Global Health*, 2017 (accepted)

2. Tomoyo Taniguchi, Kaiissar Md Mannoor, Daisuke Nonaka, Hiromu Toma, Changchun Li, Miwako Narita, Viengxay Vanisaveth, **Shigeyuki Kano**, Masuhiro Takahashi, Hisami Watanabe: A unique subset of gamma delta T cells expands and produces IL-10 in patients with naturally acquired immunity against falciparum malaria. *Frontiers in Microbiology*, 2017 (accepted)
3. Kiichi Yamamoto, Moritoshi Iwagami, Takenori Seki, **Shigeyuki Kano**, Nobuo Ota, Manabu Ato: Dual antiplasmodial activity of vitamin D₃ and its analog, 22-oxacalcitriol, by direct and indirect mechanisms. *Parasitol Int* 66: 89-99, 2017
4. Tsuchido Y, Nakamura-Uchiyama F, Toyoda K, Iwagami M, Tochtani K, Shinohara K, Hishiya N, Ogawa T, Uno K, Kasahara K, Ouji Y, **Kano S**, Mikasa K, Shimizu T, Yoshikawa M, Maruyama H: Development of delayed hemolytic anemia after treatment with oral artemether-lumefantrine in two patients with severe falciparum malaria. *Am J Trop Med Hyg* 96(5): 1185-1189, 2017
5. Yamamoto K, Iwagami M, Seki T, **Kano S**, Ota N, Ato M: Dual antiplasmodial activity of vitamin D₃ and its analog, 22-oxacalcitriol, by direct and indirect mechanisms. *Parasitol Int* 66: 89-99, 2017
6. Ménard D, Khim N, Beghain J, Adegnika AA, Shafiul-Alam M, Amodu O, Rahim-Awab G, Barnadas C, Berry A, Boum Y, Bustos MD, Cao J, Chen JH, Collet L, Cui L, Thakur GD, Dieye A, Djallé D, Dorkenoo MA, Eboumbou-Moukoko CE, Espino FE, Fandeur T, Ferreira-da-Cruz MF, Fola AA, Fuehrer HP, Hassan AM, Herrera S, Hongvanthong B, Houzé S, Ibrahim ML, Jahirul-Karim M, Jiang L, **Kano S**, Ali-Khan W, Khanthavong M, Kremsner PG, Lacerda M, Leang R, Leelawong M, Li M, Lin K, Mazarati JB, Ménard S, Morlais I, Muhindo-Mavoko H, Musset L, Na-Bangchang K, Nambozi M, Niaré K, Noedl H, Ouédraogo JB, Pillai DR, Pradines B, Quang-Phuc B, Ramharter M, Randrianarivelosia M, Sattabongkot J, Sheikh-Omar A, Silué KD, Sirima SB, Sutherland C, Syafruddin D, Tahar R, Tang LH, Touré OA, Tshibangu-wa-Tshibangu P, Vigan-Womas I, Warsame M, Wini L, Zakeri S, Kim S, Eam R, Berne L, Khean C, Chy S, Ken M, Loch K, Canier L, Duru V, Legrand E, Barale JC, Stokes B, Straimer J, Witkowski B, Fidock DA, Rogier C, Ringwald P, Ariey F, Mercereau-Puijalon O; KARMA Consortium: A Worldwide Map of *Plasmodium falciparum* K13-Propeller Polymorphisms. *N Engl J Med* 374(25): 2453-2464, Jun 23, 2016
7. Ong KI, Araki H, **Kano S**, Jimba M: The potential of positive deviance approach for the sustainable control of neglected tropical diseases. *Trop Med Health* 44:20, 2016.
8. Takeshi Akiyama, Tiengkham Pongvongsa, Souraxay Phrommala, Tomoyo Taniguchi, Yuba Inamine, Rie Takeuchi, Tadashi Watanabe, Futoshi Nishimoto, Kazuhiko Moji, **Shigeyuki Kano**, Hisami Watanabe, Jun Kobayashi: Asymptomatic malaria, growth status, and anaemia among children in Lao People's Democratic Republic: a cross-sectional study. *Malar J* 15:499, 2016
9. Tiengkham Pongvongsa, Daisuke Nonaka, Moritoshi Iwagami, Masami Nakatsu, Panom Phongmany, Futoshi Nishimoto, Jun Kobayashi, Bouasy Hongvanthon, Paul T. Brey, Kazuhiko Moji, Toshihiro Mita, **Shigeyuki Kano**: Household clustering of asymptomatic malaria infections in Xepon district, Savannakhet province, Lao PDR. *Malar J* 15:508, 2016
10. Bindongo P. P. Dembele, Haorile Chagan-Yasutan, Toshiro Niki, Yugo Ashino, Noppadon Tangpukdee, Egawa Shinichi, Srivicha Krudsood, **Shigeyuki Kano**, Toshio Hattori: Plasma levels of Galectin-9 reflect disease severity in malaria infection. *Malar J* 15:403, 2016
11. Emilie Louise Akiko Matsumoto-Takahashi, **Shigeyuki Kano**: Evaluating active roles of community health workers in accelerating universal access to health services for malaria in Palawan, the Philippines. *Trop Med Health* 44:10, 2016
12. Doi A, Iijima K, **Kano S**, Ishizaka Y: Viral protein R of human immunodeficiency virus type-1 induces retrotransposition and upregulates glutamate synthesis by the signal transducer and activator of transcription 1 signaling pathway. *Microbiol Immunol* 59(7): 398-409, 2015

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14. Matsumoto-Takahashi EL, Tongol-Rivera P, Villacorte EA, Angluben RU, Yasuoka J, **Kano S**, Jimba M: Determining the impact of community awareness-raising activities on the prevention of malaria transmission in Palawan, the Philippines. *Parasitol Int* 63(3): 519-526, 2014
15. Ryutaro Tanizaki, Yasuyuki Kato, Moritoshi Iwagami, Satoshi Kutsuna, Mugen Ujiie, Nozomi Takeshita, Kayoko Hayakawa, Shuzo Kanagawa, **Shigeyuki Kano**, Norio Ohmagari: Performance of rapid diagnostic tests for *Plasmodium ovale* malaria in Japanese travellers. *Trop Med Health* 42 (4): 149-153, 2014
16. Risa Kimura, Kanako Komaki-Yasuda, Shin-ichiro Kawazu, **Shigeyuki Kano**: 2-Cys peroxiredoxin of *Plasmodium falciparum* is involved in resistance to heat stress of the parasite. *Parasitol Int* 62(2): 137-143, 2013
17. Denise Mirano-Bascos, Pilarita T. Rivera, Elena A. Villacorte, Aleyla D. Escueta, Sin-ichiro Kawazu, **Shigeyuki Kano**: Characterization of the population demographics and the MSP-1 Block 2 allele gene frequencies of *P. falciparum* infected individuals in Davao, Philippines. *Trop Med Health* 41 (1): 1-6, 2013
18. Takeshi Akiyama, Tomoyo Taniguchi, Viengxay Vanisaveth, Yuba Inamine, Nami Toma, Changchun Li, Hiromu Toma, Rie Takeuchi, Jun Kobayashi, **Shigeyuki Kano**, Bouasy Hongvanthong, Hisami Watanabe: Association between serum zinc concentration and the *Plasmodium falciparum* antibody titer among rural villagers of Attapeu Province, Lao People's Democratic Republic. *Acta Tropica* 126: 193-197, 2013
19. Ryutaro Tanizaki, Mugen Ujiie, Yasuyuki Kato, Moritoshi Iwagami, Aki Hashimoto, Satoshi Kutsuna, Nozomi Takeshita, Kyoko Hayakawa, Shuzo Kanagawa, **Shigeyuki Kano**, Norio Ohmagari: First case of *Plasmodium knowlesi* infection in a Japanese traveller returning from Malaysia. *Malar J* 12:128, 2013
20. Takeaki Wajima, Subrata Sabui, **Shigeyuki Kano**, Thandavarayan Ramamurthy, Nabendu S Chatterjee, Takashi Hamabata: Entire sequence of the colonization factor coli surface antigen 6-encoding plasmid pCss165 from an enterotoxigenic *Escherichia coli* clinical isolate. *Plasmid* 70(3): 343-352, 2013
21. Komaki-Yasuda K, Okuwaki M, Nagata K, Kawazu S, **Kano S**: Identification of a Novel and Unique Transcription Factor in the Intraerythrocytic Stage of *Plasmodium falciparum*. *PLoS One* 8(9): e74701, 2013
22. Moritoshi Iwagami, Seung-Young Hwang, So-Hee Kim, So-Jung Park, Ga-Young Lee, Emilie Louise Akiko Matsumoto-Takahashi, Weon-Gyu Kho, **Shigeyuki Kano**: Microsatellite DNA analysis revealed a drastic genetic change of *Plasmodium vivax* population in the Republic of Korea during 2002 and 2003. *PLoS Negl Trop Dis* 7(10): e2522, 2013
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24. Matsumoto-Takahashi EL, Tongol-Rivera P, Villacorte EA, Angluben RU, Yasuoka J, **Kano S***, Jimba M*: Determining the active role of microscopists in community awareness-raising activities for malaria prevention: a cross-sectional study in Palawan, the Philippines. *Malar J* 12:384, 2013
25. Tangpukdee N, Krudsood S, **Kano S**, Wilairatana P: Falciparum malaria parasitemia index for predicting severe malaria. *Int J Lab Hematol* 34(3): 320-327, 2012

26. Moritoshi Iwagami, Megumi Fukumoto, Seung-Young Hwang, So-Hee Kim, Weon-Gyu Kho*, **Shigeyuki Kano***: Population structure and transmission dynamics of *Plasmodium vivax* in the Republic of Korea based on microsatellite DNA analysis. *PLoS Negl Trop Dis* 6(4): e1592, 2012
27. Mizuno Y, Kato Y, **Kano S**, Takasaki T: Imported malaria and dengue fever in returned travelers in Japan from 2005 to 2010. *Travel Med Infect Dis* 10, 86-91, 2012
28. Daiki Taneichi, Kenta Iijima, Akihiro Doi, Takayoshi Koyama, Yuzuru Minemoto, Kenzo Tokunaga, Mari Shimura, **Shigeyuki Kano**, Yukihito Ishizaka: Identification of SNF2h, a chromatin-remodeling factor, as a novel binding protein of Vpr of human immunodeficiency virus type 1. *J Neuroimmune Pharmacol* 6(2):177-187, 2011
29. Takeaki Wajima, Subrata Sabui, Megumi Fukumoto, **Shigeyuki Kano**, Thandavarayan Ramamurthy, Nabendu Sekhar Chatterjee, Takashi Hamabata: Enterotoxigenic *Escherichia coli* CS6 gene products and their roles in CS6 structural protein assembly and cellular adherence. *Microb Pathog* 51, 243-249, 2011
30. Noriyuki Okudaira, Motohito Goto, Rieko Yanobu-Takanashi, Masato Tamura, Akihiro An, Yukiko Abe, **Shigeyuki Kano**, Shotaro Hagiwara, Yukihito Ishizaka, Tadashi Okamura: Involvement of retrotransposition of long interspersed nucleotide element-1 in skin tumorigenesis induced by 7,12-dimethylbenz[a]anthracene and 12-O- tetradecanoylphorbol-13-acetate. *Cancer Sci* 102(11): 2000-2006, 2011
31. Richard Culleton, Cevayir Coban, Fadile Yildiz Zeyrek, Pedro Cravo, Akira Kaneko, Milijaona Randrianariveolosia, Voahangy Andrianaranjaka, **Shigeyuki Kano**, Anna Farnert, Ana Paula Arez, Paul M. Sharp, Richard Carter, Kazuyuki Tanabe: The origins of African *Plasmodium vivax*; Insights from mitochondrial genome sequencing. *PLoS One* 6(12) e29137, 2011
32. Yuko Katakai, Kanako Komaki-Yasuda, Noppadon Tangpukdee, Polrat Wilairatana, Srivicha Krudsood, **Shigeyuki Kano**: Evaluation of the NOW Malaria immunochromatographic test for quantitative diagnosis of falciparum and vivax malaria parasite density. *Trop Med Health* 39(4): 105-108, 2011
33. Toma H, Hatabu T, Vanisaveth V, Mannoor MK, Watanabe H, Li C, Kobayashi J, Phompida S, **Kano S**, Sato Y: Efficacy of mefloquine treatment and genetic profiles in uncomplicated *Plasmodium falciparum* malaria in southern Lao PDR. *Southeast Asian J Trop Med Public Health* 42(4): 759-763, 2011
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36. Shin-ichiro Kawazu, Hitoshi Takemae, Kanako Komaki-Yasuda, **Shigeyuki Kano**: Target proteins of the cytosolic thioredoxin in *Plasmodium falciparum*. *Parasitol Int* 59(2): 298-302, 2010
37. **Kano S**. Artemisinin-based combination therapies and their introduction in Japan. *J Infect Chemother* 16(6): 375-382, 2010
38. Iwagami M, Hwang SY, Fukumoto M, Hayakawa T, Tanabe K, Kim SH, Kho WG, **Kano S**. Geographical origin of *Plasmodium vivax* in the Republic of Korea: haplotype network analysis based on the parasite's mitochondrial genome. *Malar J* 9: 184-188, 2010
39. Wattana Leowattana, Noppadon Tangpukdee, Sai Kaung Thar, Souwanit Nakasiri, Siripun Srivilairit, **Shigeyuki Kano**, Polrat Wilairatana, Srivicha Krudsood: Changes in platelet count

in uncomplicated and severe falciparum malaria. *Southeast Asian J Trop Med Public Health* 41(5): 1035-1041, 2010

40. Yasutaka Mizuno, Koichiro Kudo, **Shigeyuki Kano**: Mefloquine chemoprophylaxis against malaria in Japanese travelers: results of a study on adverse effects. *Trop Med Health* 38(3): 103-106, 2010
41. Polrat Wilairatana, Noppadon Tangpukdee, Sant Muangnoicharoen, Srivicha Krudsood, **Shigeyuki Kano**: Atypical lymphocytes in malaria mimicking dengue infection in Thailand. *Res Rep Trop Med* 1: 37-43, 2010
42. Noppadon Tangpukdee, Khim Myat Wai, Sant Muangnoicharoen, **Shigeyuki Kano**, Nanthaporn Phophak, Janram Tiemprasert, Srivicha Krudsood, Polrat Wilairatana: Indicators of fatal outcome in severe *Plasmodium falciparum* malaria: a study in a tertiary-care hospital in Thailand. *Asian Pacific J Trop Med*: 855-859, 2010
43. Noriyuki Okudaira, Kenta Iijima, Takayoshi Koyama, Yuzuru Minemoto, **Shigeyuki Kano**, Akio Mimori, Yukihito Ishizaka: Induction of long interspersed nucleotide element-1 (L1) retrotransposition by 6-formylindolo[3,2-*b*] carbazole (FICZ), a tryptophan photoproduct. *Proc Natl Acad Sci U.S.A.* 107(43): 18487-18492, 2010
44. Daisuke Nonaka, Sakhone Laimanivong, Jun Kobayashi, Keobouphaphone Chindavonsa, **Shigeyuki Kano**, Viengxay Vanisaveth, Junko Yasuoka, Samlane Phompida, Masamine Jimba: Is staying overnight in a farming hut a risk factor for malaria infection in a setting with insecticide-treated bed nets in rural Laos? *Malar J* 9:372, 2010
45. Moritoshi Iwagami, RPV Jayanthe Rajapakse, Lalani Yatawara, **Shigeyuki Kano**, Takeshi Agatsuma: The first intermediate host of *Paragonimus westermani* in Sri Lanka. *Acta Trop* 109(1): 27-29 2009
46. Francis W. Muregi, **Shigeyuki Kano**, Hideto Kino, Akira Ishih: *Plasmodium berghei*: Efficacy of 5-fluoroorotate in combination with commonly used antimalarial drugs in a mouse model. *Exp Parasitol* 121:376-380, 2009
47. Yasutaka Mizuno, Yasuyuki Kato, Koichiro Kudo, **Shigeyuki Kano**: First case of treatment failure of artemether-lumefantrine in a Japanese traveler with imported falciparum malaria. *Jpn J Infect Dis* 62:139-141, 2009
48. Moritoshi Iwagami, Ichiro Itoda, Seung-Young Hwang, Weon-Gyu Kho, **Shigeyuki Kano**: *Plasmodium vivax* PCR genotyping of the first malaria case imported from South Korea into Japan. *J Infect Chemother* 15:27-33, 2009
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54. Daisuke Nonaka, Jun Kobayashi, Masamine Jimba, Bounsou Vilaysouk, Katsuyuki Tsukamoto, **Shigeyuki Kano**, Bounlay Phommasack, Pratap Singhasivanon, Jitra Waikaul, Seiki Tateno,

- Tsutomu Takeuchi: Malaria education from school to community in Oudomxay province, Lao PDR. *Parasitol Int* 57:76-82, 2008
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 59. Ray U. Angluben, Marvi R. Trudeau, **Shigeyuki Kano**, Pilarita Tongol-Rivera: KILUSAN LIGTAS MALARIA: Advancing social mobilization towards sustainable malaria control in the Province of Palawan, the Philippines. *Trop Med Health* 36(1): 45-49, 2008
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 61. Noppadon Tangpukdee, Srivicha Krudsood, Sriripun Srivilairit, Nanthaporn Phophak, Putza Chonsawat, Wimon Yanpanich, **Shigeyuki Kano**, Polrat Wilairatana: Gametocyte clearance in uncomplicated and severe *Plasmodium falciparum* malaria after artesunate-mefloquine treatment in Thailand. *Korean J Parasitol* 46(2): 65-70, 2008
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