

List of Publications in International Journals

Updated 3rd Feb 2023

1. Deng L, Wojciech L, Png CW, Kioh DYQ, Gu YX, Aung TT, Malleret B, Chan ECY, Peng G, Zhang YL, Gascoigne NRJ, [Tan KSW](#) (2023) Colonization with two different *Blastocystis* subtypes in DSS-induced colitis mice is associated with strikingly different microbiome and pathological features. *Theranostics* doi:10.7150/thno.81583 (In Press)
2. Deng L, Wojciech L, Png CW, Koh EYL, Aung TT, Kioh DYQ, Chan ECY, Malleret B, Zhang YL, Peng G, Gascoigne NRJ, [Tan KSW](#) (2022) Experimental colonization with *Blastocystis* ST4 is associated with protective immune responses and modulation of gut microbiome in a DSS-induced colitis model. *Cell Mol Life Science* 79: 245.
3. Chia W, Gomez-Lorenzo MG, Castellote I, Tong JX, Chandramohanadas R, Thu Chu TT, Shen W, Go ML, de Cozar C, Crespo B, Almela MJ, Neria-Serrano F, Franco V, Gamo FJ, [Tan KSW](#) (2021) High-Content Phenotypic Screen of a Focused TCAMS Drug Library Identifies Novel Disruptors of the Malaria Parasite Calcium Dynamics. *ACS Chem Biol* 16:2348-2372. (Cover Issue)
4. Tan YL, [Tan KSW](#), Chu JJH, Chow VTK (2021) Combination treatment with Remdesivir and Ivermectin exerts highly synergistic and potent antiviral activity against murine coronavirus infection. *Front. Cell. Infect. Microbiol.* 2021 Jul 30; 11:700502.
5. Deng L, Tay HY, Peng G, Lee JWJ, [Tan KSW](#) (2021) Prevalence and molecular subtyping of *Blastocystis* in patients with *Clostridium difficile* infection, Singapore. *Parasites Vectors* 14:277.
6. Deng L, Wojciech L, Gascoigne NRJ, Peng G, [Tan KSW](#) (2021) New insights into the interactions between *Blastocystis*, the gut microbiota, and host immunity. *PLoS Pathog* 17(2): e1009253.
7. Stensvold CR, [Tan KSW](#), Clark CG (2020) *Blastocystis*. *Trends Parasitol.* 36(3):315-6.
8. Chua ACY, Ong JJY, Malleret B, Suwanarusk R, Kosaisavee V, Zeeman AM, Cooper C, [Tan KSW](#), Zhang R, Tan BH, Abas SN, Yip A, Elliot A, Joyner C, Cho JS, Breyer K, Baran S, Lange A, Maher S, Nosten F, Bodenreider C, Yeung B, Mazier D, Galinski M, Dereuddre-Bosquet N, Le Grand R, Kocken C, Renia L, Kyle D, Diagana T, Snounou G, Russell BM, Bifani P (2019) Robust continuous *in vitro* culture of the *Plasmodium cynomolgi* erythrocytic stages. *Nat. Commun.* 10:3635.
9. Chua ACY, Ananthanarayanan A, Ong JJY, Wong JY, Yip A, Singh NH, Qu Y, Dembele L, McMillian M, Ubalee R, Davidson S, Tungtaeng A, Imerbsin R, Gupta K, Andolina C, Lee F, [Tan KSW](#), Nosten F, Russell B, Lange A, Diagana TT, Rénia L, Yeung BKS, Yu H, Bifani P (2019) Hepatic spheroids used as an *in vitro* model to study malaria relapse. *Biomaterials* 216:119221.
10. Yason JA, Liang YR, Png CW, Zhang YL, [Tan KSW](#) (2019) Interactions between a pathogenic *Blastocystis* subtype and gut microbiota: *in vitro* and *in vivo* studies. *Microbiome* 7:30.
11. Li FJ, Tsaousis AD, Purton T, Chow VTK, He CY, [Tan KSW](#) (2019) Successful genetic transfection of colonic protistan parasite *Blastocystis* for the reliable expression of ectopic genes. *Sci. Rep.* 9:3159.
12. Tong JX, Ang SEL, Tan EHN, [Tan KSW](#) (2019) Viability screen of LOPAC¹²⁸⁰ reveals tyrosine kinase inhibitor tyrphostin A9 as a novel partner drug for artesunate combinations to target the *Plasmodium falciparum* ring stage. *Antimicrob. Agents Chemother.* 63(4): e02389-18.
13. Yason JA, Koh KARP, [Tan KSW](#) (2018) Viability screen of LOPAC¹²⁸⁰ reveals phosphorylation inhibitor auranofin as potent inhibitor of *Blastocystis* ST1, ST4 and ST7 isolates. *Antimicrob. Agents Chemother.* 62(8):e00208-18.
14. Tong JX, Chandramohanadas R, [Tan KSW](#) (2018) High-content screening of MMV Pathogen Box for *Plasmodium falciparum* digestive vacuole disrupting molecules reveals valuable starting points for drug discovery. *Antimicrob. Agents Chemother.* 62(3): e02031-17.

15. Subramanian G, Belekar MA, Shukla A, Tong JX, Sinha A, Chu TTT, Kulkarni AS, Preiser PR, Reddy DS, Tan KSW, Shanmugam D, Chandramohanadas R (2018) Targeted phenotypic screening in *Plasmodium falciparum* and *Toxoplasma gondii* reveals novel modes of action of Medicines for Malaria Venture Malaria Box molecules. *mSphere* 3(1):e00534-17.
16. Gautam N, Sankaran S, Yason YA, Tan KSW, Gascoigne NRJ (2018) A high throughput approach to study mitochondria in T cells: MitoTracker Green FM dye concentration optimisation. *Methods* 134-135:11-19.
17. Armengaud J, Pible O, Gaillard JC, Cian A, Gantois N, Tan KSW, Chabe N, Viscogliosi E (2017) Proteogenomic insights into the intestinal parasite *Blastocystis* sp. Subtype 4 isolate WR1. *Proteomics* 17(21): 1700211.
18. Kosaisavee V, Suwanarusk R, Chua ACY, Kyle DE, Malleret B, Zhang R, Imwong M, Imerbsin R, Ubalee R, Sámano-Sánchez H, Yeung BKS, Ong JJY, Lombardini E, Nosten F, Tan KSW, Bifani P, Snounou G, Rénia L, Russell B (2017) Strict tropism for CD71+/CD234+ human reticulocytes limits the zoonotic potential of *Plasmodium cynomolgi*. *Blood* 130:1357-1363.
19. Li JF, Tan KSW, He CY (2017) BAPTA-AM decreases cellular pH, inhibits acidocalcisome acidification and autophagy in amino acid-starved *T. brucei*. *Mol. Biochem. Parasitol.* 213:26-29.
20. Chia WN, Lee YQ, Tan KSW (2017) Imaging flow cytometry for the screening of compounds that disrupt the *Plasmodium falciparum* digestive vacuole. *Methods* 112:211-220.
21. Ajjampur SS Tan KSW (2016) Pathogenic mechanisms in *Blastocystis* spp. – Interpreting results from in vitro and in vivo studies. *Parasitol. Int.* 65:772-779.
22. Ajjampur SS, Png CW, Chia WN, Zhang YL, Tan KSW (2016) Ex vivo and in vivo mice models to study *Blastocystis* spp. adhesion colonization and pathology: closer to proving Koch's Postulates. *PLoS One* 11(8): e0160458.
23. Yason JA, Ajjampur SS, Tan KSW (2016) *Blastocystis* isolate B exhibits multiple modes of resistance against antimicrobial peptide LL-37. *Infect. Immun.* 84(8):2220-2232.
24. Boudhar A, Ng XW, Loh CY, Chia WN, Tan ZM, Nosten F, Dymock BW,* Tan KSW* (2016) Overcoming chloroquine resistance in malaria: design, synthesis, and structure-activity relationships of novel chemoreversal agents. *Eur. J. Med. Chem.* 119:231-249. (* co-corresponding authors)
25. Boudhar A, Ng XW, Loh CY, Chia WN, Tan ZM, Nosten F, Dymock BW,* Tan KSW* (2016) Overcoming chloroquine resistance in malaria: design, synthesis, and structure-activity relationships of novel hybrid compounds. *Antimicrob. Agents Chemother.* 60(5):3076-3089. (* co-corresponding authors)
26. Lee YQ, Hall BE, Tan KSW (2016) Screening drugs against the *Plasmodium falciparum* digestive vacuole by imaging flow cytometry. *Meth. Mol. Biol.* 1389:195-205.
27. Yason JA, Tan KSW (2015) Seeing the whole elephant: Imaging flow cytometry reveals extensive morphological diversity within *Blastocystis* isolates. *PLoS One* 10(11): e0143974.
28. Wang JG, Zhang CJ, Chia WN, Loh CCY, Li ZJ, Lee YM, He YK, Yuan LX, Lim TK, Liu M, Liew CX, Lee YQ, Zhang JB, Lu NC, Lim CT, Hua ZC, Liu B, Shen HM, Tan KSW,* Lin QS* (2015) Heme-activated promiscuous targeting of artemisinin in *Plasmodium falciparum*. *Nat. Commun.* 6:10111. (* co-corresponding authors)
29. Koh HYH, Aye HM, Tan KSW,* He CY* (2015) The lysosomotropic drug LeuLeu-OMe induces lysosome disruption and autophagy-independent cell death in *Trypanosoma brucei*. *Microb. Cell* 2(8):288-298. (* co-corresponding authors)
30. Zhang R, Suwanarusk R, Malleret B, Cooke BM, Nosten F, Lau YL, Dao M, Lim CT, Renia L, Tan KSW,* Russell BM* (2015) A basis for rapid clearance of circulating ring-stage malaria parasites by the spiroindolone KAE609. *J. Inf. Dis.* (DOI: 10.1093/infdis/jiv358) (* co-corresponding authors)

31. Wawrzyniak I, Courtine D, Osman M, Hubans-Pierlot C, Cian A, Nourrisson C, Chabe M, Poirier P, Bart A, Polonais V, Delgado-Viscogliosi P, El Alaoui H, Belkorchia A, van Gool T, Tan KSW, Ferreira S, Viscogliosi E, Delbac F (2015) Draft genome sequence of the intestinal parasite *Blastocystis* subtype 4-isolate WR1. *Genom Data* 2(4):22-23.
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33. Malleret B, Li A, Zhang R, Tan KSW, Suwanarusk R, Claser C, Cho JS, Koh E, Chu C, Pukrittayakamee S, Ng ML, Ginhoux F, Ng LG, Lim CT, Nosten F, Snounou G, Rénia L and Russell B (2015) *Plasmodium vivax*: restricted tropism and rapid remodeling of CD71 positive reticulocytes. *Blood* 125(8):1314-1324.
34. Ch'ng JH, Ursing J, Tan KSW (2015) Microbial *hara-kiri*: Exploiting lysosomal cell death in malarial parasites. *Microb. Cell* 2(2):57-58.
35. Yang ND, Tan SH, Ng S, Shi Y, Zhou J, Tan KSW, Wong WSF and Shen HM (2014) Artesunate induces cell death in human cancer cells via enhancing lysosomal function and lysosomal degradation of ferritin. *J. Biol. Chem.* 289(48):33425-33441.
36. Loh CCY, Suwanarusk R, Lee YQ, Chan KWK, Choy KY, Rénia L, Russell BM, Lear MJ, Nosten FH, Tan KSW and Chow LMC (2014) Characterization of the commercially-available fluorescent chloroquine-BOIDIPY conjugate, LynxTag-CQGREEN, as a marker for chloroquine resistance and uptake in a 96-well plate assay. *PLoS One* 9(10): e110800.
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38. Gun SY, Claser C, Tan KSW and Rénia L (2014) Interferons and interferon regulatory factors in malaria. *Mediators Inflamm.* 2014: 243713.
39. Ch'ng JH, Lee YQ, Gun SY, Chia WN, Chang ZW, Wong LK, Batty KT, Russell B, Nosten F, Renia L and Tan KSW (2014) Validation of an alternative antimalarial mechanism of chloroquine for clinical use against malaria. *Cell Death Dis.* 5 e1305.
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42. Wu ZN, Mirza H, Teo DWJ and Tan KSW (2014) Strain-dependent induction of human enterocyte apoptosis by *Blastocystis* disrupts epithelial barrier and ZO-1 organization in a caspase 3- and 9-dependent manner. *Biomed Res. Int.* 2014: 209163.
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44. Teo DWJ, Macary PA and Tan KSW (2014) Pleiotropic effects of *Blastocystis* spp. subtypes 4 and 7 on ligand-specific Toll-like receptor signaling and NF- κ B activation in a human monocyte cell line. *PLoS One* 9(2): e89036.
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46. Ch'ng JH, Mok S, Bozdech Z, Lear MJ, Boudhar A, Russell B, Nosten F and Tan KSW (2013) A whole cell pathway screen reveals seven novel chemosensitizers to combat drug resistant malaria. *Sci. Rep.* 3:1734.
47. Ch'ng JH, Yeo SP and Tan KSW (2013) Can a single "powerless" mitochondrion in the malaria parasite contribute to parasite programmed cell death in the asexual stages? *Mitochondrion* 13(3): 254-256.
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49. Mirza H, Wu ZN, Teo DWJ and Tan KSW (2012) Statin pleiotropy prevents rho kinase-mediated intestinal epithelial barrier compromise induced by *Blastocystis* cysteine proteases. *Cell. Microbiol* 14:1474-1484. (Cover issue)
50. Chan CL, Renia L and Tan KSW (2012) A simplified, sensitive phagocytic assay for malaria cultures facilitated by flow cytometry of differentially-stained cell populations. *PLoS One* 7:e38523.
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