

## **Book Chapter**

- Loke MF, Hanafi A. Molecular Mechanisms Responsible for Drug Resistance. In: Reference Module in Life Sciences, Encyclopedia of Bioinformatics and Computational Biology, Volume 3, 2019, Pages 926-931. Elsevier. ISBN 978-0-12-811414-8.

## **Review Articles**

- Péré-Védrenne C, Flahou B, Loke MF, Ménard A, Vadivelu J. Other Helicobacters, gastric and gut microbiota. *Helicobacter*. 2017 Sep;22 Suppl 1.
- Ahmed N, Loke MF, Kumar N, Vadivelu J. Helicobacter pylori in 2013: multiplying genomes, emerging insights. *Helicobacter*. 2013 Sep;18 Suppl 1:1-4.

## **Editorial**

- Loke MF, Goh KL. Finding the Role of Helicobacter pylori in Colorectal Cancer. *Immuno-Gastroenterology*. 2:1, 5-6; January/February/March 2013.

## **Research Articles**

- Sidahmed HMA, Vadivelu J, Loke MF, Arbab IA, Abdul B, Sukari MA, Abdelwahab SI. Anti-ulcerogenic activity of dentatin from clausena excavata Burm.f. against ethanol-induced gastric ulcer in rats: Possible role of mucus and anti-oxidant effect. *Phytomedicine*. 2019 Mar 1;55:31-39.
- Chua EG, Debowski AW, Webberley KM, Peters F, Lamichhane B, Loke MF, Vadivelu J, Tay CY, Marshall BJ, Wise MJ. Analysis of core protein clusters identifies candidate variable sites conferring metronidazole resistance in Helicobacter pylori. *Gastroenterol Rep (Oxf)*. 2019 Feb;7(1):42-49.
- Ram MR, Teh X, Rajakumar T, Goh KL, Leow AHR, Poh BH, Mariappan V, Shankar EM, Loke MF, Vadivelu J. Polymorphisms in the host CYP2C19 gene and antibiotic-resistance attributes of Helicobacter pylori isolates influence the outcome of triple therapy. *J Antimicrob Chemother*. 2019 Jan 1;74(1):11-16.
- Loke MF, Chua EG, Gan HM, Thulasi K, Wanyiri JW, Thevambiga I, Goh KL, Wong WF, Vadivelu J. Metabolomics and 16S rRNA sequencing of human colorectal cancers and adjacent mucosa. *PLoS One*. 2018 Dec 21;13(12):e0208584.
- Leow AH, Azmi AN, Loke MF, Vadivelu J, Graham DY, Goh KL. Optimizing first line 7-day standard triple therapy for Helicobacter pylori eradication: Prolonging treatment or adding bismuth: which is better? *J Dig Dis*. 2018 Nov;19(11):674-677. D
- Wong EHJ, Ng CG, Goh KL, Vadivelu J, Ho B, Loke MF. Metabolomic analysis of low and high biofilm-forming Helicobacter pylori strains. *Sci Rep*. 2018 Jan 23;8(1):1409.
- Tan AH, Chong CW, Song SL, Teh CSJ, Yap IKS, Loke MF, Tan YQ, Yong HS, Mahadeva S, Lang AE, Lim SY. Altered gut microbiome and metabolome in patients with multiple system atrophy. *Mov Disord*. 2018 Jan;33(1):174-176.

- Al-Maleki AR, Loke MF, Lui SY, Ramli NSK, Khosravi Y, Ng CG, Venkatraman G, Goh KL, Ho B, Vadivelu J. Helicobacter pylori outer inflammatory protein A (OipA) suppresses apoptosis of AGS gastric cells in vitro. Cell Microbiol. 2017 Dec;19(12).
- Drewes JL, White JR, Dejea CM, Fathi P, Iyadorai T, Vadivelu J, Roslani AC, Wick EC, Mongodin EF, Loke MF, Thulasi K, Gan HM, Goh KL, Chong HY, Kumar S, Wanyiri JW, Sears CL. High-resolution bacterial 16S rRNA gene profile meta-analysis and biofilm status reveal common colorectal cancer consortia. NPJ Biofilms Microbiomes. 2017 Nov 29;3:34.
- Khosravi Y, Gan HM, Chia PJY, Croft LJ, Ng CG, Goh KL, Ong KC, Wong KT, Loke MF, Vadivelu J. The gastric microbiome of four Malaysian gastroduodenal disease patients. Arch Gene Genome Res. 2017 1(1):1-9.
- Ng CG, Loke MF, Goh KL, Vadivelu J, Ho B. Biofilm formation enhances Helicobacter pylori survivability in vegetables. Food Microbiol. 2017 Apr;62:68-76.
- Yap TW, Leow AH, Azmi AN, Callahan DL, Perez-Perez GI, Loke MF, Goh KL, Vadivelu J. Global fecal and plasma metabolic dynamics related to Helicobacter pylori eradication. Front Microbiol. 2017 Mar 30;8:536.
- Lee WC, Goh KL, Loke MF, Vadivelu J. Elucidation of the metabolic network of Helicobacter pylori J99 and Malaysian clinical strains by phenotype microarray. Helicobacter. 2017 Feb;22(1).
- Chua EG, Wise MJ, Khosravi Y, Seow SW, Amoyo AA, Pettersson S, Peters F, Tay CY, Perkins TT, Loke MF, Marshall BJ, Vadivelu J. Quantum changes in Helicobacter pylori gene expression accompany host-adaptation. DNA Res. 2017 Feb 1;24(1):37-49.
- Gopinath V, Priyadarshini S, Loke MF, Arunkumar J, Marsili E, MubarakAli D, Velusamy P, Vadivelu J. Biogenic synthesis, characterization of antibacterial silver nanoparticles and its cell cytotoxicity. Arabian Journal of Chemistry. 2017, 10:1107-1117.
- Miswan Z, Lukman SK, Abd Majid FA, Loke MF, Saidin S, Hermawan H. Drug-eluting coating of ginsenoside Rg1 and Re incorporated poly(lactic-co-glycolic acid) on stainless steel 316L: Physicochemical and drug release analyses. Int J Pharm. 2016 Dec 30;515(1-2):460-466.
- Hanafi A, Lee WC, Loke MF, Teh X, Shaari A, Dinarvand M, Lehours P, Mégraud F, Leow AH, Vadivelu J, Goh KL. Molecular and proteomic analysis of levofloxacin and metronidazole resistant Helicobacter pylori. Front Microbiol. 2016 Dec 15;7:2015.
- Wong EH, Ng CG, Chua EG, Tay AC, Peters F, Marshall BJ, Ho B, Goh KL, Vadivelu J, Loke MF. Comparative genomics revealed multiple Helicobacter pylori genes associated with biofilm formation in vitro. PLoS One. 2016 Nov 21;11(11):e0166835.

- Khosravi Y, Loke MF, Goh KL, Vadivelu J. Proteomics analysis revealed that crosstalk between *Helicobacter pylori* and *Streptococcus mitis* may enhance bacterial survival and reduces carcinogenesis. *Front Microbiol.* 2016 Sep 15;7:1462.
- Thevakumar K, Chandren JR, Perez-Perez GI, Chua EG, Teh LK, Salleh MZ, Tan JA, Leow AH, Goh KL, Tay AC, Marshall BJ, Vadivelu J, Loke MF, Wong LP. Assessment of risk and sero-prevalence of *Helicobacter pylori* colonization among remote Orang Asli tribes in Peninsula Malaysia. *PLoS One.* 2016 Jul 21;11(7):e0159830.
- Loke MF, Ng CG, Vilashni Y, Lim J, Ho B. Understanding the dimorphic lifestyles of human gastric pathogen *Helicobacter pylori* using the SWATH-based proteomics approach. *Sci Rep.* 2016 May 25;6:26784.
- Chee CS, Chang KM, Loke MF, Angela Loo VP, Subrayan V. Association of potential salivary biomarkers with diabetic retinopathy and its severity in type-2 diabetes mellitus: a proteomic analysis by mass spectrometry. *PeerJ.* 2016 May 12;4:e2022.
- Dieye Y, Mbengue B, Dagamajalu S, Fall MM, Loke MF, Nguer CM, Thiam A, Vadivelu J, Dieye A. Cytokine response during non-cerebral and cerebral malaria: evidence of a failure to control inflammation as a cause of death in African adults. *PeerJ.* 2016 May 2;4:e1965.
- Suwarnalata G, Tan AH, Isa H, Gudimella R, Anwar A, Loke MF, Mahadeva S, Lim SY, Vadivelu J. Augmentation of Autoantibodies by *Helicobacter pylori* in Parkinson's Disease Patients May Be Linked to Greater Severity. *PLoS One.* 2016 Apr 21;11(4):e0153725.
- Yap TW, Gan HM, Lee YP, Leow AH, Azmi AN, Francois F, Perez-Perez GI, Loke MF, Goh KL, Vadivelu J. *Helicobacter pylori* Eradication Causes Perturbation of the Human Gut Microbiome in Young Adults. *PLoS One.* 2016 Mar 18;11(3):e0151893.
- Khosravi Y, Bunte RM, Chiow KH, Tan TL, Wong WY, Poh QH, Doli Sentosa IM, Seow SW, Amoyo AA, Pettersson S, Loke MF, Vadivelu J. *Helicobacter pylori* and gut microbiota modulate energy homeostasis prior to inducing histopathological changes in mice. *Gut Microbes.* 2016 Jan 2;7(1):48-53.
- Sidahmed HM, Hashim NM, Mohan S, Abdelwahab SI, Taha MM, Dehghan F, Yahayu M, Ee GC, Loke MF, Vadivelu J. Evidence of the gastroprotective and anti-*Helicobacter pylori* activities of  $\beta$ -mangostin isolated from *Cratoxylum arborescens* (vahl) blume. *Drug Des Devel Ther.* 2016 Jan 13;10:297-313.
- Gopinath V, Priyadarshini S, MubarakAli D, Loke MF, Thajuddin N, Alharbi NS, Yadavalli T, Alagiri M, Vadivelu J. Anti-*Helicobacter pylori*, cytotoxicity and catalytic activity of biosynthesized gold nanoparticles: Multifaceted application. *Arabian Journal of Chemistry.* 2016. (In press)

- Ravishankar Ram M, Goh KL, Leow AH, Poh BH, Loke MF, Harrison R, Shankar EM, Vadivelu J. Polymorphisms at Locus 4p14 of Toll-Like Receptors TLR-1 and TLR-10 Confer Susceptibility to Gastric Carcinoma in Helicobacter pylori Infection. PLoS One. 2015 Nov 11;10(11):e0141865.
- Chan KG, Loke MF, Ong BL, Wong YL, Hong KW, Tan KH, Kaur S, Ng HF, Abdul Razak M, Ngeow YF. Multiphasic strain differentiation of atypical mycobacteria from elephant trunk wash. PeerJ. 2015 Nov 10;3:e1367. doi: 10.7717/peerj.1367.
- Yap TW, Leow AH, Azmi AN, Francois F, Perez-Perez GI, Blaser MJ, Poh BH, Loke MF, Goh KL, Vadivelu J. Changes in Metabolic Hormones in Malaysian Young Adults following Helicobacter pylori Eradication. PLoS One. 2015 Aug 20;10(8):e0135771.
- Tan GM, Looi CY, Fernandez KC, Vadivelu J, Loke MF, Wong WF. Suppression of cell division-associated genes by Helicobacter pylori attenuates proliferation of RAW264.7 monocytic macrophage cells. Sci Rep. 2015 Jun 16;5:11046.
- Lee WC, Anton BP, Wang S, Baybayan P, Singh S, Ashby M, Chua EG, Tay CY, Thirriot F, Loke MF, Goh KL, Marshall BJ, Roberts RJ, Vadivelu J. The complete methylome of Helicobacter pylori UM032. BMC Genomics. 2015 Jun 2;16:424.
- Yap TW, Chan WK, Leow AH, Azmi AN, Loke MF, Vadivelu J, Goh KL. Prevalence of serum celiac antibodies in a multiracial Asian population--a first study in the young Asian adult population of Malaysia. PLoS One. 2015 Mar 23;10(3):e0121908.
- Sidahmed HM, Hashim NM, Abdulla MA, Ali HM, Mohan S, Abdelwahab SI, Taha MM, Fai LM, Vadivelu J. Antisecretory, gastroprotective, antioxidant and anti-Helicobacter pylori activity of zerumbone from Zingiber zerumbet (L.) Smith. PLoS One. 2015 Mar 23;10(3):e0121060.
- Khosravi Y, Seow SW, Amoyo AA, Chiow KH, Tan TL, Wong WY, Poh QH, Sentosa IM, Bunte RM, Pettersson S, Loke MF, Vadivelu J. Helicobacter pylori infection can affect energy modulating hormones and body weight in germ free mice. Sci Rep. 2015 Mar 4;5:8731.
- Tan AH, Mahadeva S, Marras C, Thalha AM, Kiew CK, Yeat CM, Ng SW, Ang SP, Chow SK, Loke MF, Vadivelu JS, Ibrahim N, Yong HS, Tan CT, Fox SH, Lang AE, Lim SY. Helicobacter pylori infection is associated with worse severity of Parkinson's disease. Parkinsonism Relat Disord. 2015 Mar;21(3):221-5.
- Gunaletchumy SP, Seevasant I, Tan MH, Croft LJ, Mitchell HM, Goh KL, Loke MF, Vadivelu J. Helicobacter pylori genetic diversity and gastro-duodenal diseases in Malaysia. Sci Rep. 2014 Dec 11;4:7431.
- Kumar N, Mariappan V, Baddam R, Lankapalli AK, Shaik S, Goh KL, Loke MF, Perkins T, Benghezal M, Hasnain SE, Vadivelu J, Marshall BJ, Ahmed N. Comparative genomic analysis of Helicobacter pylori from Malaysia identifies three distinct lineages suggestive of differential evolution. Nucleic Acids Res. 2015 Jan;43(1):324-35.

- Khosravi Y, Dieye Y, Loke MF, Goh KL, Vadivelu J. Streptococcus mitis induces conversion of Helicobacter pylori to coccoid cells during co-culture in vitro. PLoS One. 2014 Nov 11;9(11):e112214.
- Khosravi Y, Dieye Y, Poh BH, Ng CG, Loke MF, Goh KL, Vadivelu J. Culturable bacterial microbiota of the stomach of Helicobacter pylori positive and negative gastric disease patients. ScientificWorldJournal. 2014;2014:610421.
- Choo SW, Ang MY, Fouladi H, Tan SY, Siow CC, Mutha NV, Heydari H, Wee WY, Vadivelu J, Loke MF, Rehvathy V, Wong GJ. HelicoBase: a Helicobacter genomic resource and analysis platform. BMC Genomics. 2014 Jul 16;15:600.
- Teh X, Khosravi Y, Lee WC, Leow AH, Loke MF, Vadivelu J, Goh KL. Functional and molecular surveillance of Helicobacter pylori antibiotic resistance in Kuala Lumpur. PLoS One. 2014 Jul 8;9(7):e101481.
- Khosravi Y, Rehvathy V, Wee WY, Wang S, Baybayan P, Singh S, Ashby M, Ong J, Amoyo AA, Seow SW, Choo SW, Perkins T, Chua EG, Tay A, Marshall BJ, Loke MF, Goh KL, Pettersson S, Vadivelu J. Comparing the genomes of Helicobacter pylori clinical strain UM032 and Mice-adapted derivatives. Gut Pathog. 2013 Aug 19;5:25. Erratum in: Gut Pathog. 2014;6:11.
- Khosravi Y, Ling LC, Loke MF, Shailendra S, Prepageran N, Vadivelu J. Determination of the biofilm formation capacity of bacterial pathogens associated with otorhinolaryngologic diseases in the Malaysian population. Eur Arch Otorhinolaryngol. 2014 May;271(5):1227-33.
- Sidahmed HM, Abdelwahab SI, Mohan S, Abdulla MA, Mohamed Elhassan Taha M, Hashim NM, Hadi AH, Vadivelu J, Loke Fai M, Rahmani M, Yahayu M.  $\alpha$ -Mangostin from Cratoxylum arborescens (Vahl) Blume Demonstrates Anti-Ulcerogenic Property: A Mechanistic Study. Evid Based Complement Alternat Med. 2013;2013:450840.
- Rehvathy V, Tan MH, Gunaletchumy SP, Teh X, Wang S, Baybayan P, Singh S, Ashby M, Kaakoush NO, Mitchell HM, Croft LJ, Goh KL, Loke MF, Vadivelu J. Multiple Genome Sequences of Helicobacter pylori Strains of Diverse Disease and Antibiotic Resistance Backgrounds from Malaysia. Genome Announc. 2013 Sep 19;1(5). pii: e00687-13.
- Sidahmed HM, Azizan AH, Mohan S, Abdulla MA, Abdelwahab SI, Taha MM, Hadi AH, Ketuly KA, Hashim NM, Loke MF, Vadivelu J. Gastroprotective effect of desmosdumotin C isolated from Mitrella kentii against ethanol-induced gastric mucosal hemorrhage in rats: possible involvement of glutathione, heat-shock protein-70, sulfhydryl compounds, nitric oxide, and anti-Helicobacter pylori activity. BMC Complement Altern Med. 2013 Jul 19;13:183.
- Sidahmed HM, Hashim NM, Amir J, Abdulla MA, Hadi AH, Abdelwahab SI, Taha MM, Hassandarvish P, Teh X, Loke MF, Vadivelu J, Rahmani M, Mohan S. Pyranocycloartobiloxanthone A, a novel gastroprotective compound from Artocarpus obtusus Jarret, against ethanol-induced acute gastric ulcer in vivo. Phytomedicine. 2013 Jul 15;20(10):834-43.

- Gunaletchumy SP, Teh X, Khosravi Y, Ramli NS, Chua EG, Kavitha T, Mason JN, Lee HT, Alias H, Zaidan NZ, Yassin NB, Tay LC, Rudd S, Mitchell HM, Kaakoush NO, Loke MF, Goh KL, Vadivelu J. Draft genome sequences of *Helicobacter pylori* isolates from Malaysia, cultured from patients with functional dyspepsia and gastric cancer. *J Bacteriol.* 2012 Oct;194(20):5695-6.
- Khosravi Y, Loke MF, Chua EG, Tay ST, Vadivelu J. Phenotypic detection of metallo- $\beta$ -lactamase in imipenem-resistant *Pseudomonas aeruginosa*. *ScientificWorldJournal.* 2012;2012:654939.
- Loke MF, Lui SY, Ng BL, Gong M, Ho B. Antiadhesive property of microalgal polysaccharide extract on the binding of *Helicobacter pylori* to gastric mucin. *FEMS Immunol Med Microbiol.* 2007 Jul;50(2):231-8.