

BIOGRAPHICAL SKETCH

NAME in English Petrus Tang	POSITION TITLE Associate Professor, Graduate Institute of Biomedical Sciences		
NAME in Chinese 鄧致剛			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Fu-Jen Catholic University	B.Sc.	07/84	Biology
National Defense Medical Center	M.Sc.	05/86	Tropical Medicine
Cambridge University	Ph.D.	12/95	Pathology/Parasitology

A. Positions and Honors

Positions and Employment

2010-present	Associate Professor, Department of Parasitology
1998-2010	Assistant Professor, Department of Parasitology
1989-1991	Head, Department of Parasitology, Chang Gung Medical College
1988-1991	Lecturer, Department of Parasitology, Chang Gung Medical College

Other Experience and Professional Memberships

1991-present	Member, British Society for Parasitology
1984-present	Founder-Member of Taiwan Society for Parasitology
2004-present	Board, Taiwan Society for Parasitology

Editor & Refereeing

Chief Editor, Chinese Journal of Parasitology (2000-2002)

Editorial Board, Chinese Journal of Parasitology (2002-2005)

Serving as referee for the following journals: Nucleic Acids Research, Proteomics, Current Genetics, Eukaryotic cell, Future Medicinal Chemistry.

B. Selected Peer-reviewed Publications (2005-2010) (in chronological order)

Referred papers (*first/equal contribution or corresponding author)

- (1) Chen WJ, **Tang P***, Hseu YC, Chen CC, Huang KY, Chen SC (2010) A proteome analysis of the tetracyanonickelate (II) responses in *Klebsiella oxytoca*. Environmental Microbiology Reports (in press) doi:10.1111/j.1758-2229.2010.00194.x
- (2) Huang PJ, Liu YC, Lee CC, Lin WC, Gan RRC, Lyu PL, **Tang P*** (2010) DSAP: Deep-Sequencing Small RNA Analysis Pipeline. Nucleic Acids Res. 38 Suppl:W385-91.
- (3) Noël CJ, Diaz N, Sicheritz-Ponten T, Safarikova L, Tachezy J, **Tang P**, Fiori PL, Hirt RP. (2010) *Trichomonas vaginalis* BspA-like vast gene family: evidence for functional diversity. BMC Genomics 11:99.
- (4) **Tang P***, Hseu YC, Chou HH, Huang KY, Chen SC (2010) Proteomic analysis of the effect of cyanide on *Klebsiella oxytoca*. Curr. Microbiol. 60(3):224-228.
- (5) Tsui KH, **Tang P***, Lin CY, Chang PL, Chang CH, Chiu YM, Yung, BYM (2010) Loss of Bikunin in urine as useful marker of bladder carcinoma. J. Urology. 183, 339-344.
- (6) Lin WC, Huang KY, Chen SC, Huang TY, Chen SJ, Huang PJ, **Tang P***. (2009) Malate dehydrogenase is negatively regulated by miR-1 in *Trichomonas vaginalis*. Parasitol. Res. 105: 1683-1689.

- (7) Tse KP, Su WH, Chang KP, Tsang NM, Yu CJ, **Tang P**, See LC, Hsueh C, Yang ML, Hao SP, Li HY, Wang MH, Liao LP, Chen LC, Lin SR, Jorgensen TJ, Chang YS, Shugart YY. (2009) Genome-wide Association Study Reveals Multiple Nasopharyngeal Carcinoma-Associated Loci within the HLA Region at Chromosome 6p21.3. *Am J Hum Genet.* 85 (2):194-203.
- (8) Feng Y, Hsiao YH, Chen HL, Chu C, **Tang P**, Chiu CH. (2009) Apoptosis-like cell death induced by Salmonella in Acanthamoeba trophozoites. *Genomics.* 94(2):132-7.
- (9) Ding F, **Tang P***, Hsu MH, Cui P, Hu SN, Yu J, Chiu CH (2009) Genome Evolution Driven by Host Adaptations Results in a More Virulent and Resistant Streptococcus pneumoniae Serotype 14. *BMC Genomics* 10:158. (equal contribution)
- (10) Lin WC, Li SC, Lin WC, Shin JW, Hu SN, Yu XM, Huang TY, Chen SC, Chen HC, Chen SJ, Huang PJ, Gan RRC, Chiu CH, **Tang P*** (2009) Identification of microRNA in the protist Trichomonas vaginalis. *Genomics* 93: 487–493.
- (11) Huang KY, Chien KY, Lin YC, Hsu WM, Fong IK, Huang PJ, Yueh YM, Gan RRC, **Tang P***. (2009) A Proteome Reference Map of Trichomonas vaginalis. *Parasitol. Res.* 104(4):927-933
- (12) Chen K, Meng Q, Ma L, Liu Q, **Tang P**, Chiu C, Hu S, Yu J. (2008) A novel DNA sequence periodicity decodes nucleosome positioning. *Nucleic Acids Res.* 36:6228-6236.
- (13) **Tang P***, Liu JK, Chou SM, Hor LI, Chen WJ, Chen SC (2008) A proteomic analysis of Klebsiella oxytoca after exposure to succinonitrile. *Process Biochemistry* 43:753–757.
- (14) Chen CL, Tsui KH, Lin CY, Chang PL, **Tang P**, Yung BY (2007) Can probability of genetic mutation be an indicator of clinical relevance? *Genomics* 90(6):746-750.
- (15) **Tang P***, Huang CC, Shin JW, Zhang RL, Liu JL, Fu YC (2007) Induction of Apoptotic-like Cell Death in Trichomonas vaginalis by Metronidazole. *J. Trop. Med.* 7(9):837-841.
- (16) Shin YM, Fu YC, Xu MY, Xu XY, Xu JJ, **Tang P**. (2007) Molecular Cloning and Characterization of Two Homologues of Yeast Sir2 Gene in the Parasitic Protist Trichomonas vaginalis. *J. Trop. Med.* 7(4):297-302.
- (17) Li SC, **Tang P**, Lin WC. (2007) Intronic microRNA: discovery and biological implications. *DNA Cell Biol.* 26(4):195-207.
- (18) Tang WF, Yang SY, Wu BW, Jheng JR, Chen YL, Shih CH, Lin KH, Lai HC, **Tang P**, Horng JT. (2007) Reticulon 3 Binds the 2C Protein of Enterovirus 71 and Is Required for Viral Replication. *J Biol Chem.* 282(8):5888-98.
- (19) Carlton JM, Hirt RP, Silva JC, Delcher AL, Schatz M, Zhao Q, Wortman JR, Bidwell SL, Alsmark UC, Besteiro S, Sicheritz-Ponten T, Noel CJ, Dacks JB, Foster PG, Simillion C, Van de Peer Y, Miranda-Saavedra D, Barton GJ, Westrop GD, Müller S, Dessi D, Fiori PL, Ren Q, Paulsen I, Zhang H, Bastida-Corcuera FD, Simoes-Barbosa A, Brown MT, Hayes RD, Mukherjee M, Okumura CY, Schneider R, Smith AJ, Vanacova S, Villalvazo M, Haas BJ, Perteau M, Feldblyum TV, Utterback TR, Shu CL, Osoegawa K, de Jong PJ, Hrdy I, Horvathova L, Zubacova Z, Dolezal P, Malik SB, Logsdon JM Jr, Henze K, Gupta A, Wang CC, Dunne RL, Upcroft JA, Upcroft P, White O, Salzberg SL, **Tang P**, Chiu CH, Lee YS, Embley TM, Coombs GH, Mottram JC, Tachezy J, Fraser-Liggett CM, Johnson PJ. (2007) Draft genome sequence of the sexually transmitted pathogen Trichomonas vaginalis. *Science* 315(5809):207-12.
- (20) Kao CM, Hseu YC, Huang YL, **Tang P**, Chen SC. (2007) Inhibition of Cyanide-Insensitive Respiration in Klebsiella oxytoca SYSU-011 by 8-Hydroxyquinolone. *CurrMicrobiol.* 54(3):190-194.
- (21) Lin PY, Chiu CH, Chu C, **Tang P**, Su LH. (2006) Invasion of murine respiratory tract epithelial cells by Chryseobacterium meningosepticum and identification of genes present specifically in an invasive strain. *New Microbiol.* 29(1):55-62.
- (22) Yu H, Wang J, Ye J, **Tang P**, Chu C, Hu S, Chiu CH. (2006) Complete nucleotide sequence of pSCV50, the virulence plasmid of Salmonella entericaserovar Choleraesuis SC-B67. *Plasmid.* 55(2):145-51.
- (23) Chiu CH, **Tang P**, Chu C, Hu S, Bao Q, Yu J, Chou YY, Wang HS, Lee YS. (2005) The genome sequence of Salmonella entericaserovar Choleraesuis, a highly invasive and resistant zoonotic pathogen. *Nucleic Acids Res.* 2005;33(7):2351.

Book chapters

1. Jane M. Carlton, Shehre-Banoo Malik, Steven A. Sullivan, Thomas Sicheritz-Ponten, Petrus Tang and Robert P. Hirt (2010) The Genome of *Trichomonas vaginalis* in "Anaerobic Parasitic Protozoa: Genomics and Molecular Biology" edited by C. Graham Clark, Patricia J. Johnson and Rodney D. Adam. Caister Academic Press (ISBN: 978-1-904455-61-5)
2. Lin CY, Huang MY, Chu CH, Tang P, Tang C.Y. (2009) Mapping short reads to a genome without using hash look-up table algorithm and Burrows Wheeler Transformation. Proceedings - 2009 IEEE International Conference on Bioinformatics and Biomedicine Workshops, BIBMW 2009 , art. no. 5332100, pp. 232-237.

C. Research Support

Ongoing Research Support

NSC97-2320-B-182-011-MY3

08/01/08-07/31/11

Expression profiling and functional characterization of *Trichomonas vaginalis* microRNA.

The specific aims of this project was to identify miRNA in *T. vaginalis* by both bioinformatics and experimental approaches.

Role: PI

CMRP170481-3

01/12/08-28/02/12

Trichomonas vaginalis as a model system to study the regulation of calorie restriction induced longevity

The goal of this project was to use *T. vaginalis* as a model to study longevity induced by calorie restriction with special focus on the role of miRNAs and kinases.

Role: PI

Completed Research Support (2006-2010)

CMRPD160141-3

01/05/07-04/31/10

Identification of potential bladder cancer markers in urine by proteomic approach

The goal of this project was to use 2DGE and liquid-chromatography coupled with mass-mass detector to study the protein expression profiles in urine of patients diagnosed with various bladder cancer developing stages as well as individuals without bladder cancer to identify potential bladder cancer markers.

Role: PI