

Curriculum Vitae

NAME YA-FANG CHIU	POSITION TITLE ASSISTANT PROFESSOR
----------------------	---------------------------------------

EDUCATION

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Chang-Gung University, TW	Ph.D.	2004-	Microbiology
Chang-Gung University, TW	M.S.	2008	Microbiology
Chang-Gung University, TW	B.S.	2001-2003 1997-2001	Medical Laboratory Science and Biotechnology

CONTACT INFORMATION

E-mail: yfchiu@mail.cgu.edu.tw

Tel: +1-886-32118800 Ext 3876/5133

Fax: +1-886-32118292

Address: Department of Microbiology and Immunology, Chang-Gung University, 259 Wenhua 1st Rd., Guishan Dist., Taoyuan 33302, Taiwan

A. Positions and Honors:

- Assistant Professor*, Department of Immunology and Microbiology, Chang-Gung University, Taoyuan, Taiwan 2016-present
- Adjunct Assistant Professor*, Research Center for Emerging Viral Infections, Chang-Gung University, Taoyuan, Taiwan 2016-present
- Adjunct Assistant Professor*, Department of Medical Laboratory, Chang Gung Memorial Hospital, Taoyuan, Taiwan 2016-present

Professional activities:

- Assistant Scientist*, Morgridge Institute for Research, USA 2014-2016
- Researcher*, McArdle Laboratory, University of Wisconsin-Madison, USA 2014
- Postdoctoral Researcher*, McArdle Laboratory, University of Wisconsin-Madison, USA 2009-2014
- Postdoctoral Researcher*, Department of Immunology and Microbiology, Chang-Gung University, Taiwan 2008-2009
- Research Assistant*, Department of Immunology and Microbiology, Chang-Gung University, Taiwan 2003-2004

Honors:

- Recruited Outstanding Researcher*, The Ministry of Science and Technology 2016-2018
- Scholarship*, The 39th International Herpesvirus Workshop 2014
- Certified Medical Technologist, Higher Examination 2001
- Certified Medical Technologist 2001
- Honorary Member*, The Phi Tai Phi Scholastic Honor Society of the Republic of China 2001
- College Student Research Award, National Science Council 2000

B. Publications

1. Yu-Jyun Li, Chi-Yuan Chen, Jeng-How Yang, Ya-Fang Chiu*. Modulating Cholesterol-Rich

- Lipid Rafts to Disrupt Influenza A Virus Infection. 2022 *Frontiers in Immunology*
DOI: 10.3389/fimmu.2022.982264 (SCI: 8.786)
2. **Chia-Jung Kuo, Jun-Nong Ke, Tony Kuo, Cheng-Yu Lin, Sen-Yung Hsieh, Ya-Fang Chiu, Hui-Yu Wu, Mei-Zi Huang, Ngoc-Niem Bui, Cheng-Hsun Chiu, Cheng-Tang Chiu, Chih-Ho Lai** Multiple amino acid substitutions in penicillin-binding protein-1A confer amoxicillin resistance in refractory *Helicobacter pylori* infection. 2022 *Journal of Microbiology, Immunology and Infection* <https://doi.org/10.1016/j.jmii.2022.07.006> (SCI: 10.273)
 3. **Ya-Fang Chiu*, Yi-Wen Huang, Chi-Yuan Chen, Yu-Chia Chen, Yu-Nong Gong, Rei-Lin Kuo, Chung-Guei Huang, and Shin-Ru Shih.** Visualizing Influenza A Virus vRNA Replication. 2022 *Frontiers in Microbiology* 13. doi.org/10.3389/fmicb.2022.812711 (SCI: 6.064)
 4. **Chih-Ho Lai, Tzu-Lung Lin, Mei-Zi Huang, Shiao-Wen Li, Hui-Yu Wu, Ya-Fang Chiu, Chia-Yu Yang, Cheng-Hsun Chiu, and Hsin-Chih Lai** Gut Commensal Parabacteroides goldsteinii MTS01 Alters Gut Microbiota Composition and Reduces Cholesterol to Mitigate Helicobacter pylori-Induced Pathogenesis. 2022 *Frontiers in Immunology* 13, 10: 3389. doi.org/10.3389/fimmu.2022.916848 (SCI: 8.786)
 5. **Ting-Yu Lin, Wen-Hsi Lan, Ya-Fang Chiu (Co-first), Chun-Lung Feng, Cheng-Hsun Chiu, Chia-Jung Kuo ***, **Chih-Ho Lai ***. Statins' Regulation of the Virulence Factors of *Helicobacter pylori* and the Production of ROS May Inhibit the Development of Gastric Cancer. *Antioxidants* 2021, 10, 1293. doi: [10.3390/antiox10081293](https://doi.org/10.3390/antiox10081293) (SCI: 7.675)
 6. **Chien-Hui Hung, Ya-Fang Chiu, Wen-Hung Wang, Lee-Wen Chen, Pey-Jium Chang, Tsung-Yu Huang, Ying-Ju Lin, Wan-Ju Tsai, Chia-Ching Yang.** Interaction between BGLF2 and BBLF1 is required for the efficient production of infectious Epstein-Barr virus particles. 2020 *Frontiers in Microbiology* 10:3021. doi: [10.3389/fmicb.2019.03021](https://doi.org/10.3389/fmicb.2019.03021) (SCI: 6.064)
 7. **Chih Ho Lai, Ju Chun Huang, Hsin Hung Cheng, Meng Chen Wu, Mei Zi Huang, Hui Ying Hsu, Yu An Chen, Chung Yao Hsu, Yi Jiun Pan, Yen Ting Chu, Tsan Jan Chen, Yu Fang Wu, Wei Yang Sit, Jai Shin Liu, Ya Fang Chiu, Hung Jung Wang, Wen Ching Wang.** Helicobacter pylori cholesterol glucosylation modulates autophagy for increasing intracellular survival in macrophages 2018 *Cellular Microbiology* DOI: 10.1111/cmi.12947 (SCI: 4.115)
 8. **Ya-Fang Chiu and Bill Sugden.** Plasmid-Partitioning by Human Tumor Viruses 2018 *Journal of Virology* doi: [10.1128/JVI.02170-17](https://doi.org/10.1128/JVI.02170-17) (SCI: 6.549)
 9. **Ya-Fang Chiu, Arthur U. Sugden, Kathryn Fox, Mitchell Hayes, and Bill Sugden.** Kaposi's Sarcoma-associated Herpesvirus (KSHV) stably clusters its genomes across generations to maintain itself extrachromosomally. *Journal of Cell Biology* 2017; 216 doi: [10.1083/jcb.201702013](https://doi.org/10.1083/jcb.201702013) (SCI: 8.077)
 10. **Ya-Fang Chiu and Bill Sugden.** Epstein-Barr Virus' Path from Latent to Productive Infection. *Annual Review of Virology* 2016; 3:359-72 doi: [10.1146/annurev-virology-110615-042358](https://doi.org/10.1146/annurev-virology-110615-042358) (SCI: 14.263)
 11. **Reza Djavadian, Ya-Fang Chiu, and Eric Johannsen.** An Epstein-Barr Virus-Encoded Protein Complex Requires an Origin of Lytic Replication in cis to Mediate Late Gene Transcription. *PLOS Pathogens* 2016; 12 (6): e1005718. doi:[10.1371/journal.ppat.1005718](https://doi.org/10.1371/journal.ppat.1005718) (SCI: 7.464)
 12. **Denis Lee, Kathryn Norby, Mitchell Hayes, Ya-Fang Chiu, Bill Sugden, Paul F. Lambert.** Using Organotypic Epithelial Tissue Culture to Study the Human Papillomavirus Life Cycle. *Current Protocols in Microbiology* 2016; 41: 14B.8.1-14B.8.19. doi: [10.1002/cpmc.4](https://doi.org/10.1002/cpmc.4). (SI: 1.76)
 13. **Kathleen R. Makielski, Denis Lee, Laurel D. Lorenz, Dhananjay M. Nawandar, Ya-Fang Chiu, Shannon C. Kenney, Paul F. Lambert.** Human Papillomavirus Promotes Epstein-barr Virus Maintenance and Lytic Reactivation in Oral Keratinocytes. *Virology* 2016; 495: 52-62. doi: [10.1016/j.virol.2016.05.005](https://doi.org/10.1016/j.virol.2016.05.005) (SCI: 6.616)
 14. **Chien-Hui Hung, Lee-Wen Chen, Wen-Hung Wang, Pey-Jium Chang, Ya-Fang Chiu, Chen-**

- Chia Hung, Ying-Ju Lin, Jieh-Yuan Liou, Wen-Ju Tsai, and Shih-Tung Liu.** Regulation of Autophagic Activation by Rta of Epstein-Barr Virus via ERK-kinase Pathway. *Journal of Virology* 2014; 88:12133-45. doi: 10.1128/JVI.02033-14. (SCI: 6.549)
15. **David T. Vereide, Eri Seto, Ya Fang Chiu, Mitchell Hayes, Takano Tagawa, Adam Grundhoff, Wolfgang Hammerschmidt, and Bill Sugden.** Epstein-Barr Virus Maintains Lymphomas Via Its miRNAs. *Oncogene* 2014; 33:1258-64. doi: 10.1038/onc.2013.71. (SCI: 8.756)
 16. **Ya-Fang Chiu, Arthur U. Sugden, and Bill Sugden.** Epstein-Barr Viral Productive Amplification Reprograms Nuclear Architecture, DNA Replication and Histone Deposition. *Cell Host & Microbes* 2013; 14:607-18. doi: 10.1016/j.chom.2013.11.009. (SCI: 31.316)
 17. **Malika Kuzembayeva, Ya-Fang Chiu, and Bill Sugden.** Comparing Proteomics and RISC Immunoprecipitations to Identify Targets of Epstein-Barr Viral miRNAs. *PLoS One* 2012; 7:e47409. doi: 10.1371/journal.pone.0047409. (SCI: 3.752)
 18. **Kathryn Norby, Ya-Fang Chiu, and Bill Sugden.** Monitoring Plasmid Replication in Live Mammalian Cells over Multiple Generations by Fluorescence Microscopy. *Journal of Visualized Experiments* 2012; (70): e4305. doi: 10.3791/4305. (SCI: 1.424)
 19. **Ya-Fang Chiu, Bill Sugden, Pey-Jium Chang, Lee-Wen Chen, Ying-Ju Lin, Yu-Ching Lan, Chih-Ho Lai, Jieh-Yuan Liou, Shih-Tung Liu, and Chien-Hui Hung.** Characterization and Intracellular Trafficking of Epstein-Barr Virus BBLF1, A Protein Involved in Virion Maturation. *Journal of Virology* 2012; 86:9647-55. doi: 10.1128/JVI.01126-12. (SCI: 6.549)
 20. **Ching-Yi Yiu, Shih-Ying Chen, Li-Kwan Chang, Ya-Fang Chiu, and Tsuey-Pin Lin.** Inhibitory Effects of Resveratrol on the Epstein-Barr Virus Lytic Cycle. *Molecules* 2010; 15:7115-24. doi: 10.3390/molecules15107115. (SCI: 4.927)
 21. **Yu-Hsiu Lee, Ya-Fang Chiu, Wen-Hung Wang, Li-Kwan Chang, and Shih-Tung Liu.** 2008. Activation of the ERK Signal Transduction Pathway by Epstein-Barr Virus Immediate-early Protein Rta. *Journal of General Virology* 2008; 89(Pt 10):2437-46. doi: 10.1099/vir.0.2008/003897-0. (SCI: 5.141)
 22. **Ya-Fang Chiu, Chao-Ping Tung, Yu-Hsiu Lee, Wen-Hung Wang, Ching Li, Jia-Yan Hung, Chen-Yu Wang, Yasushi Kawaguchi, and Shih-Tung Liu.** A Comprehensive Library of Mutations of Epstein Barr Virus. *Journal of General Virology* 2007; 88(Pt 9):2463-72. (SCI: 5.141)
 23. **Li-Kwan Chang, Ta-Tung Wei, Ya-Fang Chiu, Chao-Ping Tung, Jian-Ying Chuang, Shang-Kai Hung, Ching Li, and Shih-Tung Liu.** Inhibition of Epstein-Barr Virus Lytic Cycle by (-)-Epigallocatechin Gallate. *Biochemical and Biophysical Research Communications* 2003; 301:1062-8. (SCI: 3.322)

C. Presentations

Oral presentation

1. **Ya-Fang Chiu, Arthur U. Sugden, and Bill Sugden.** Visualizing the Maintenance and the Productive Amplification of Tumor Viruses in Cancer Cells, 2014 Aug, Graduate Institute of Clinical Medical Sciences, Chang Gung Memorial Hospital, Chaoyi, Taiwan
2. **Ya-Fang Chiu, Arthur U. Sugden, Kathryn Fox, Mitchell Hayes, and Bill Sugden.** Identifying An Unprecedented Partitioning Mechanism for KSHV Genomes. 18th International Workshop on KSHV and Related Agents, 2015
3. Opening session, The 41st International Herpesvirus Workshop, 2016
4. **Ya-Fang Chiu,** Light up the Maintenance and the Productive Amplification of Tumor Viruses in Cancer Cell, Institute of physiology, National Yang Ming Chiao Tung University, 2016
5. **Ya-Fang Chiu, Arthur U. Sugden, Kathryn Fox, Mitchell Hayes, and Bill Sugden.** Kaposi's Sarcoma-associated Herpesvirus Stably Clusters its Genomes Across Generations to Maintain Itself Extrachromosomally. Biomedical Research Symposium of National Health Research

Institutes, 2019

6. **Ya-Fang Chiu** Dynamic, Pathogenic Mechanism of Human Viruses in Single cell, 2021Feb, Division of Infectious Diseases, Department of Medicine, Chang Gung Memorial Hospital, Tucheng, New Taipei, Taiwan

Poster presentation

1. **Ya-Fang Chiu, Arthur U. Sugden, Kathryn Fox, Mitchell Hayes, and Bill Sugden.** Kaposi's sarcoma-associated herpesvirus stably clusters its genomes across generations to maintain itself extrachromosomally. "Nasopharyngeal Carcinoma" Gordon Research Conference, 2018
2. **Ya-Fang Chiu, Arthur U. Sugden, Kathryn Fox, Mitchell Hayes, and Bill Sugden.** KSHV Stably Clusters its Genomes Across Generations to Maintain Itself Extrachromosomally. *The 4th ASM Conference on Viral Manipulation of Nuclear Processes, 2017*
3. **Ya-Fang Chiu, Arthur U. Sugden, Kathryn Fox, Mitchell Hayes, and Bill Sugden.** Identifying An Unprecedented Partitioning Mechanism for KSHV Genomes. *The 41st International Herpesvirus Workshop, 2016*
4. **Ya-Fang Chiu, Arthur U. Sugden, and Bill Sugden** Epstein-Barr Viral Productive Amplification Reprograms Nuclear Architecture, DNA Replication and Histone Deposition. *The 39th International Herpesvirus Workshop, 2014*
5. **David T. Vereide, Eri Seto, Ya Fang Chiu, Mitchell Hayes, Adam Grundhoff, Wolfgang Hammerschmidt, and Bill Sugden** Epstein-Barr Virus Inhibits Caspase 3 via its miRNAs to Maintain Type I Burkitt's Lymphomas *The 15th International Symposium on EBV and associated diseases, 2012*
6. **Ya-Fang Chiu, Chien-Hui Hung, and Shih-Tung Liu.** The Role of BBLF1 protein in Epstein-Barr virus maturation, Host-Microbes Interactions symposium, *The Taiwan Society Biochemistry and Molecular Biology, 2007*
7. **Ya-Fang Chiu, Chao-Tung Tung, and Shih-Tung Liu.** Epstein-Barr Virus Mutants Generated with Tn5. *The 5th NHRI Conference on Tumor Associated Herpesviruses, 2004*
8. **Li-Kwan Chang, Ya-Fang Chiu, and Shih-Tung Liu.** Activation of the Immediate-Early Genes and Lytic Cycle of Epstein-Barr virus by Heat Shock. *The 4th NHRI Conference on Tumor Associated Herpesviruses, National health Research Institutes, 2002*
9. **Li-Kwan Chang, Ya-Fang Chiu, and Shih-Tung Liu.** Activation of the Immediate-Early Genes and Lytic Cycle of Epstein-Barr virus by Heat Shock, *American Society for Microbiology, 2002*

D. Research Support:

	Grant	Duration
Influences of NS2 on Influenza viral production through its post-translational modification NS2	The Ministry of Science and Technology; PI	2020/08-2023/07
Studying replication and nuclear export of influenza viral segments with live-cell imaging	The Ministry of Science and Technology; PI	2017/08-2020/07
Replication and trafficking of influenza viral genomes	The Ministry of Science and Technology; PI	2016/08-2017/07
Translational regulation by Rta of Epstein-Barr virus	The Ministry of Science and Technology; Co-PI	2016/08-2017/07
Clustering and Maintenance Mechanisms of Kaposi's Sarcoma-associated Herpesvirus in Tumor Cell	National Health Research Institute; PI	2017/01-2019/12
Mechanisms underlying the release, transcription, and replication of the influenza A virus genomes	Chang Gung Medical Research Program; PI	2017/10-2019/09
Influences of NS2's stability on the vRNP nuclear export of influenza A virus	Chang Gung Medical Research Program; PI	2020/07-2022/06
Influenza A virus manipulates cellular NEDD4L for progeny production	Chang Gung Medical Research Program; PI	2022/12-2023/11
細胞生物安全檢測所需的檢測服務開發	育德揚生物技術有限公司	2020/03-2020/06