Curriculum Vitae
Sheng Chen, DVM, MPVM, Ph.D

I) CONTACT INFORMATION

Department of Infectious Diseases and Public Health
Jockey Club College of Veterinary Medicine and Life Sciences
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II) EDUCATION

Ph.D., Food Microbiology, University of Maryland at College Park, MD USA (2004)
Master of Preventive Vet. Medicine, China Agriculture University, Beijing, China (2000)
D.V.M., China Agriculture University, Beijing, China (1997)

III) PROFESSIONAL EXPERIENCE

Present academic position and other positions:

2020.1~present	Professor and Associate Dean, College of Veterinary Medicine and Life Science, The City University of Hong Kong
2021.5 ~present	Member, Advisory Council on Food and Environmental Hygiene (appointed by Chief Executive), Food and Health Bureau, Hong Kong Government
2010~present	Shenzhen Expert Committee on pharmacology and biotechnology, Shenzhen, China

Previous academic positions and other positions:

2019.8~12	Professor and Acting Head, Department of Infectious Diseases and Public Health, College of Veterinary Medicine and Life Science, The City University of Hong Kong
2017~2019.8	Professor, Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong
2014~2017	Associate Professor, Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong
2009 ~ 2014	Assistant Professor, Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong
2004~ 2009	Post-doctoral Fellow, Microbiology and Molecular Genetics, Medical College of Wisconsin, Milwaukee, WI, USA
2012 ~2019	Distinguished Professor, The Hong Kong PolyU Shenzhen Research Institute, Shenzhen, P. R. China
2015~2019	Director, Shenzhen Key lab for Food Biological Safety Control, The Hong Kong PolyU Shenzhen Research Institute, Shenzhen, China
2015~2017	Chairman, Animal Subject Ethics Sub-Committee, The Hong Kong Polytechnic University, Hong Kong
2015~2019	Director, Central Animal Facility, The Hong Kong PolyU Shenzhen Research Institute, Shenzhen, China
2010~2019	Associate Director, Food Safety and Technology Research Center, The Hong Kong Polytechnic University, Hong Kong
2010~2020	Ad Hoc working group on the microbial guidelines for ready-to-eat food, Food Safety Center, Department of Food and Environmental Hygiene, Hong Kong

IV) RESEARCH PUBLICATION: * Corresponding author

A total of 202 peer reviewed papers were published in top journals in the field of Microbiology, Biochemistry and Infectious Diseases and received a total citation of **5163** (Scopus) by Oct. 2021. My H-index is **35** (Scopus) and i10-index is **120** (Google scholar) even though a lot of my papers were published recently, which have not received a lot of citations yet. My citations in 2020 was over 900 and it should be over 1000 in 2021 and onward. Among these 207 papers published, I am the corresponding author for **170** papers, first author for 8 and co-author for 29 papers. Among these 206 papers, **10** of them are **A++** (IF>15.00 including 5 in *The Lancet Infectious Diseases* with IF of 25.071), **78** are **A+** (top 9.99%), 53 are A (19.99%), 24 are B+ (29.99%) and 28 are B (39.99%). The detail publication list is shown as follow:

Detail publication list: Co, co-author; Cor, corresponding author; ^, CityU affiliated publications.

No.	Publications	IF (JCR)	Author-ship	Scopus Citations	CityU category
2021					
202	*Wei R, Yang X, Liu H, Wei T, Chen S*, Li X*. Synthetic Pseudaminic-Acid-Based Antibacterial Vaccine Confers Effective Protection against Acinetobacter baumannii Infection.* ***ACS Cent Sci.*** *2021 Sep 22;7(9):1535-1542.*	14.553	Cor		A+
201	*Cheng Q, Zheng Z, Ye L, Chen S*. Identification of a novel metallo-β-lactamase, VAM-1, in a foodborne Vibrio alginolyticus isolate from China.* ***Antimicrob Agents Chemother.*** *2021 Aug 23:AAC0112921.*	5.191	Cor		A+
200	*Wang M, Chan EWC, Wan Y, Wong MH, Chen S*. Active maintenance of proton motive force mediates starvation-induced bacterial antibiotic tolerance in Escherichia coli.* ***Commun Biol.*** *2021 Sep 14;4(1):1068.*	6.268	Cor		A+
199	*Xiao, H., Yu, X., Yang, C., Chan, C., Lu, L., Cao, S., Wan, S., Lan, Z., Mok, D. K. W., Chen, S. & Wong, M., Prenylated isoflavonoids-rich extract of erythrinae cortex exerted bone protective effects by modulating gut microbial compositions and metabolites in ovariectomized rats Sep 2021,* ***Nutrients.*** *13, 9, 2943.*	5.717	Co		A
198	*Yi, L., Zeng, P., Wong, K. Y., Chan, K. F. & Chen, S*., Controlling Listeria monocytogenes in ready-to-eat leafy greens by amphipathic α-helix peptide zp80 and its antimicrobial mechanisms. Dec 2021,* ***LWT-Food Science and Technology.*** *152, 112412.*	4.952	Cor		A
197	*Po HL, Chow HY, Cheng QP, Chan KW, Deng X, Wang SP, Chan WC, Kong HK, Chan KF, Li XC, Chen S*, Daptomycin Exerts Bactericidal Effect through Induction of Excessive ROS Production and Blocking the Function of Stress Response Protein Usp2.* ***Natural Sciences****, First published: 27 July 2021. https://doi.org/10.1002/ntls.10023*	A flagship journal in Wiley	Cor		
196	*Yang XM, Liu XX, Yang C., Chan WC. Zhang R, Chen S*. A conjugative IncI1 plasmid carrying erm(B) and blaCTX-M-104 that mediates resistance to azithromycin and cephalosporins.* ***Microbiology Spectrum.*** *2021. In press.*	7.171	Cor		A
195	*Liu XB, Li RC, Dong N, Ye LW, Chan WC, Chen S*., Complete genetic analysis of plasmids carried by two non-clonal blaNDM-5- and mcr-1-bearing Escherichia coli strains: insight into plasmid*	7.171	Cor		A

	transmission among foodborne bacteria. ***Microbiology Spectrum.*** *2021. In press.*				
194^	*Xu Q, Yang X, Chan EWC, Chen S*. The hypermucoviscosity of hypervirulent K. pneumoniae confers the ability to evade neutrophil-mediated phagocytosis.* ***Virulence.*** *2021 Dec;12(1):2050-2059.*	5.882	Cor		A
193^	*Wang J, Lin D, Liu M, Liu H, Blasco P, Sun Z, Cheung YC, Chen S, Li X.Total Synthesis of Mannopeptimycin β via β-Hydroxyenduracididine Ligation.* ***J Am Chem Soc.*** *2021 Aug 5. doi: 10.1021/jacs.1c05922.*	15.419	Co		A++
192^	*Liu, X., Chan, E. W. & Chen, S*., Transmission and stable inheritance of carbapenemase gene (blaKPC-2 or blaNDM-1)-encoding and mcr-1-encoding plasmids in clinical Enterobacteriaceae strains. 7 Jul 2021, (Online published).* ***Journal of Global Antimicrobial Resistance.***	4.035	Cor		B
191^	*Yi, L., Zeng, P., Liu, J., Wong, K., Chan, E. W., Lin, Y., Chan, K. &,* Chen, S*. *Antimicrobial peptide zp37 inhibits Escherichia coli O157:H7 in alfalfa sprouts by inflicting damage in cell membrane and binding to DNA Jul 2021,* ***LWT - Food Science and Technology.*** *146, 111392.*	4.952	Cor		A
190^	*Li, W., Yan, Y., Chen, J., Sun, R., Wang, Y., Wang, T., Feng, Z., Peng, K., Wang, J., Chen, S., Luo, Y., Li, R. & Yang, B., Genomic characterization of conjugative plasmids carrying the mcr-1 gene in foodborne and clinical strains of Salmonella and Escherichia coli. Jul 2021,* ***Food Control.*** *125, 108032.*	5.548	Co		A+
189^	Chen, K., Yang, C., Chan, E. W. & Chen, S*., Emergence of conjugative IncC type plasmid simultaneously encoding resistance to ciprofloxacin, ceftriaxone and azithromycin in Salmonella. ***Antimicrobial Agents and Chemotherapy.*** 2021 Jun 14;AAC0104621.	5.191	Cor		A+
188^	*Zeng, P., Yi, L., Cheng, Q., Liu, J., Chen, S*., Chan, K. & Wong, K., An ornithine-rich dodecapeptide with improved proteolytic stability selectively kills gram-negative food-borne pathogens and its action mode on Escherichia coli O157:H7. 16 Aug 2021,* ***International Journal of Food Microbiology.*** *352, 109281.*	5.277	Cor		A
187^	*Zeng, P., Yi, L., Xu, J., Gao, W., Xu, C., Chen, S*., Chan, K., Wong, K., Investigation of antibiofilm activity, antibacterial activity, and mechanistic studies of an amphiphilic peptide against Acinetobacter baumannii. 1 Jun 2021,* ***Biochimica et Biophysica Acta - Biomembranes****. 1863, 6, 183600.*	3.747	Cor	3	B+
186^	Zhang, R., Cheung, C. Y., Seo, S., Liu, H., Pardeshi, L., Wong, K. H., Chow, L. M. C., Chau, M. P., Wang, Y., Lee, A. R., Kwon, W. Y., Chen, S., Chan, B. K., Wong, K., Choy, R. K. W. & Ko, B. C. B.,RUVBL1/2 Complex Regulates Pro-Inflammatory Responses in Macrophages via Regulating Histone H3K4 Trimethylation. Jun 2021, ***Frontiers in Immunology.*** 12, 679184.	7.561	Co		A
185^	Hou, C., Xu, C., Yi, B., Huang, X., Cao, C., Lee, Y., Chen, S*. & Yao X. others, , Mechano-Induced Assembly of a Nanocomposite for "Press-N-Go" Coatings with Highly Efficient Surface Disinfection. 28 Apr 2021, ***ACS Applied Materials and Interfaces.*** 13, 16, p. 19332–19341 10 p.	9.229	Cor	1	A
184^	Yang, X., Ye, L., Chan, E. W., Zhang, R. & Chen, S*., Characterization of an IncFIB/IncHI1B Plasmid Encoding Efflux Pump TMexCD1-TOprJ1 in a Clinical Tigecycline- and	5.191	Cor		A+

	Carbapenem-Resistant Klebsiella pneumoniae Strain. Apr 2021, ***Antimicrobial Agents and Chemotherapy.*** 65, 4, e02340-20.				
183^	Zheng, Z., Ye, L., Li, R. & Chen, S*., Whole-genome sequencing of strains of Vibrio spp. from China reveals different genetic contexts of blaCTX-M-14 among diverse lineages. Apr 2021, ***Journal of antimicrobial chemotherapy.*** 76, 4, p. 950–	5.790	Cor		A+
182^	Jin, W. B., Xu, C., Qi, X. L., Zeng, P., Gao, W., Lai, K. H., Chiou, J., Chan, E. W. C., Leung, Y., Chan, T. H., Wong, K., Chen, S*. & Chan, K. Synthesis of 1,3,4-trisubstituted pyrrolidines as meropenem adjuvants targeting New Delhi metallo-β-lactamase. 21 Feb 2021, ***New Journal of Chemistry***. 45, 7, p. 3515-3534	3.591	Cor		B
181^	Chen, J#., Chen, S#., Jiang, Y., Zhang, R. & Cai, J., Fecal Carriage and Genetic Characterization of CTX-M-1/9/1-Producing Escherichia coli From Healthy Humans in Hangzhou, China. Feb 2021, ***Frontiers in Microbiology***. 12, 616687.	5.640	Cor		A
180^	*Yang, X., Dong, N., Chan, E. W., Zhang, R. & Chen, S*.,* Carbapenem Resistance-Encoding and Virulence-Encoding Conjugative Plasmids in Klebsiella pneumoniae. 21 May 2020, ***Trends in Microbiology***. 29, 1, p. 65-83	17.079	Cor	9	A++
179^	Xie, M., Yang, X., Xu, Q., Ye, L., Chen, K., Zheng, Z., Dong, N., Sun, Q., Shu, L., Gu, D., Chan, E. W., Zhang, R. & Chen, S.Clinical evolution of ST11 carbapenem resistant and hypervirulent Klebsiella pneumoniae. 2021, ***Communications Biology***. 4, 650.	6.268	Cor		A+
2020					
178^	Xie, M., Dong, N., Chen, K., Yang, X., Ye, L., Chan, E. W., Zhang, R. & Chen, S*, A hybrid plasmid formed by recombination of a virulence plasmid and a resistance plasmid in Klebsiella pneumoniae Dec 2020, ***Journal of Global Antimicrobial Resistance***. 23, p. 466-470	4.035	Cor	2	B
177^	*Guo, J., Liu, D., Yang, Z., Weng, W., Chan, E. W. C., Zeng, Z., Wong, K., Lin, P. & Chen, S*.,*A photoelectrochemical biosensor for rapid and ultrasensitive norovirus detection. 1 Jul 2020, ***Bioelectrochemistry***. 136, 107591.	5.373	Cor	2	A+
176^	Chen, K., Yang, C., Dong, N., Xie, M., Ye, L., Chan, E. W. C. & Chen, S*., Evolution of Ciprofloxacin Resistance-Encoding Genetic Elements in Salmonella. Dec 2020, ***mSystems***. 5, 6, e01234-20.	6.496	Cor		A+
175^	*Yang, X., Dong, N., Chan, E. W. & Chen, S*.,* Genetic cluster analysis of SARS-CoV-2 and the identification of those responsible for the major outbreaks in various countries. 11 Jun 2020, ***Emerging Microbes and Infections.*** 9, 1, p. 1287-1299 13 p.	7.163	Cor	17	A
174^	*Yang, X., Ye, L., Li, Y., Chan, E. W., Zhang, R. & Chen, S*., Identification of a Chromosomal Integrated DNA Fragment Containing the rmpA2 and iucABCDiutA Virulence Genes in Klebsiella pneumoniae Dec 2020, **mSphere**. 5, 6, e01179-20.*	4.389	Cor		B+
173^	*Wang, M., Chan, E. W. C., Yang, C., Chen, K., So, P. & Chen, S*., N-Acetyl-D-Glucosamine Acts as Adjuvant that Re-Sensitizes Starvation-Induced Antibiotic-Tolerant Population of E. Coli to β-Lactam. 20 Nov 2020, **iScience.** 23, 11, 101740.*	5.458	Cor		A
172^	*Sun, Z., Shang, Z., Forelli, N., Po, K. H. L., Chen, S., Brady, S. F. & Li, X.,* Total Synthesis of Malacidin A by β-Hydroxyaspartic Acid Ligation Mediated Cyclization and Absolute Structure Establishment. 29 Jul 2020, ***Angewandte Chemie-International Edition.*** 59, 45, p. 19868–19872	15.336	Co	3	A++

171^	*Lin, D., Chen, K., Guo, J., Ye, L., Li, R., Chan, E. W. C. & Chen, S*., Contribution of biofilm formation genetic locus, pgaABCD, to antibiotic resistance development in gut microbiome. Nov 2020,* ***Gut Microbes****. 12, 1, p. 1-12 12 p.*	10.245	Cor		A+
170^	*Zhang R, Dong N, Zeng Y, Shen ZQ, Lu JY, Liu CC, Huang Z, Sun QL, Cheng QP, Shu LB, Cai JC, Chan EWC, Liu DJ, Chen GX, Wang Y, Chen S*.* Chromosomal and plasmid-borne tigecycline resistance genes tet(X3) and tet(X4) in dairy cows in a Chinese farm. ***Antimicrob Agents Chemother***. 2020 Oct 0;64(11):e00674-20.	5.191	Cor		A+
169^	*Chen, D., Tian, L., Po, K. H. L., Chen, S*. & Li, X., Total synthesis and a systematic structure-activity relationship study of WAP-8294A2. 15 Sep 2020,* ***Bioorganic and Medicinal Chemistry****. 28, 18, 115677.*	3.641	Cor	1	B+
168^	*Huang, Z., Dong, N., Shu, L., Wang, H., Sun, Q., Zhou, H., Chan, E. W., Chen, S*. & Gu, D.,* Detection and genetic characterization of the colistin resistance gene mcr-3.3 in an Aeromonas veronii strain isolated from alligator feces. 15 Jul 2020, ***Journal of Global Antimicrobial Resistance.*** DOI: 10.1016/j.jgar.2020.07.003	4.035	Cor	3	B+
167^	*Xu, C., Chen, K., Chan, K. F., Chan, E. W. C., Guo, X., Chow, H. Y., Zhao, G., Zeng, P., Wang, M., Zhu, Y., Li, X., Wong, K-Y. & Chen, S*.*, Imidazole Type Antifungal Drugs Are Effective Colistin Adjuvants That Resensitize Colistin-Resistant Enterobacteriaceae. 22 Jun 2020,* ***Advanced Therapeutics****. UNSP 2000084.	28/352 in Parmacology and pharmacy (92.7%)	Cor		A+
166^	*Lu, J., Dong, N., Liu, C., Zeng, Y., Sun, Q., Zhou, H., Hu, Y., Chen, S., Shen, Z. & Zhang, R.*, Prevalence and molecular epidemiology of mcr-1-positive Klebsiella pneumoniae in healthy adults from China. 9 Jun 2020, ***Journal of antimicrobial chemotherapy***. DOI: 10.1093/jac/dkaa210	5.790	Co	1	A+
165^	*Yang, C., Chen, K., Chan, E. W., Yao, W. & Chen, S*., Transmission of Chromosomal MDR DNA Fragment Encoding Ciprofloxacin Resistance by a Conjugative Helper Plasmid in Salmonella Sep 2020,* ***Frontiers in Microbiology****. 11, 556227.*	5.640	Cor		A
164^	*Chow, H. Y., Po, K. H. L., Jin, K., Qiao, G., Sun, Z., Ma, W., Ye, X., Zhou, N., Chen, S*. & Li, X.,* Establishing the Structure-Activity Relationship of Daptomycin. 9 Jul 2020, ***ACS Medicinal Chemistry Letters.*** 11, 7, p. 1442-1449 8 p.	4.345	Cor	5	B+
163^	*Jin, W. B., Xu, C., Cheung, Q., Gao, W., Zeng, P., Liu, J., Chan, E. W., Leung, Y., Chan, T. H., Wong, K., Chen, S*. & Chan, K.,* Bioisosteric investigation of ebselen: Synthesis and in vitro characterization of 1,2-benzisothiazol-3(2H)-one derivatives as potent New Delhi metallo-β-lactamase inhibitors. Jul 2020, ***Bioorganic Chemistry***. 100, 103873.	5.275	Cor	7	A
162^	*Yang, X., Ye, L., Chan, E. W., Zhang, R. & Chen, S*.,* Tracking Recombination Events That Occur in Conjugative Virulence Plasmid p15WZ-82_Vir during the Transmission Process. Jul 2020, ***mSystems***. 5, 4, e00140-20.	6.496	Cor	2	A
161^	*Chen, D., Po, K. H. L., Blasco, P., Chen, S. & Li, X.,* Convergent Synthesis of Calcium-Dependent Antibiotic CDA3a and Analogues with Improved Antibacterial Activity via Late-Stage Serine Ligation. 19 Jun 2020, ***Organic Letters***. 22, 12, p. 4749-4753 5 p.	6.005	Co	1	A+
160^	*Wong, M., Lin, D., Li, R., Chan, E. & Chen, S*., Genomic and transcriptomic analyses of the Salmonella virulence regulatory network: abridged secondary publication.* ***Hong Kong medical journal = Xianggang yi xue za zhi****, 26, 3 (Supplement 4), p. 39-42*	2.227	Cor		B

159^	*Chen, S.*, Chan EWC., Po KHL., Ye L., Li R., Molecular mechanisms of fluoroquinolone and expanded-spectrum cephalosporin resistance in Vibrio parahaemolyticus : abridged secondary publication.* ***Hong Kong medical journal = Xianggang yi xue za zhi****, Vol. 26, No. 3 (Supplement 4), 06.2020, p. 43-47.*	2.227	Cor		B
158^	*Pan, Y., Zeng, J., Li, L., Yang, J., Tang, Z., Xiong, W., Li, Y., Chen, S*. & Zeng, Z.*, Coexistence of Antibiotic Resistance Genes and Virulence Factors Deciphered by Large-Scale Complete Genome Analysis. May 2020, ***mSystems***. 5, 3, e00821-19.	6.496	Cor	7	A
157^	*Cheng, Q., Xu, C., Chai, J., Zhang, R., Chan, E. W. C. & Chen, S*.*, Structural Insight into the Mechanism of Inhibitor-Resistance in CTX-M-199, a CTX-M-64 Variant Carrying the S130T Substitution. 10 Apr 2020, ***ACS Infectious Diseases***. 6, 4, p. 577-587	5.084	Cor	3	A+
156^	*Xie, M., Chen, K., Ye, L., Yang, X., Xu, Q., Yang, C., Dong, N., Chan, E. W., Sun, Q., Shu, L., Gu, D., Lin, X., Zhang, R. & Chen, S*.,* Conjugation of Virulence Plasmid in Clinical Klebsiella pneumoniae Strains through Formation of a Fusion Plasmid. 1 Apr 2020, ***Advanced Biosystems***. 4, 4, 1900239.	New journal	Cor	9	
155^	*Chow, H. Y., Po, K. H. L., Gao, P., Blasco, P., Wang, X., Li, C., Ye, L., Jin, K., Chen, K., Chan, E. W. C., You, X., Yi Tsun Kao, R., Chen, S*. & Li, X.*, Methylation of Daptomycin Leading to the Discovery of Kynomycin, a Cyclic Lipodepsipeptide Active against Resistant Pathogens. 26 Mar 2020, ***Journal of Medicinal Chemistry***. 63, 6, p. 3161-3171	7.446	Cor	9	A+
154^	*Zeng, P., Xu, C., Liu, C., Liu, J., Cheng, Q., Gao, W., Yang, X., Chen, S*., Chan, K. & Wong, K.,* De Novo Designed Hexadecapeptides Synergize Glycopeptide Antibiotics Vancomycin and Teicoplanin against Pathogenic Klebsiella pneumoniae via Disruption of Cell Permeability and Potential. 16 Mar 2020, ***ACS Applied Bio Materials.*** 3, 3, p. 1738-1752	New journal	Cor	7	
153^	*Qiu, J., Nie, Y., Zhao, Y., Zhang, Y., Li, L., Wang, R., Wang, M., Chen, S., Wang, J., Li, Y. & Xia, J.,* Safeguarding intestine cells against enteropathogenic Escherichia coli by intracellular protein reaction, a preventive antibacterial mechanism. 10 Mar 2020, ***Proceedings of the National Academy of Sciences of the United States of America***. 117, 10, p. 5260-5268	11.205	Co	1	A+
152^	*Zeng, Y., Dong, N., Zhang, R., Liu, C., Sun, Q., Lu, J., Shu, L., Cheng, Q., Chan, E. W. & Chen, S*.*, Emergence of an Empedobacter falsenii strain harbouring a tet(X)-variant-bearing novel plasmid conferring resistance to tigecycline. Mar 2020, ***Journal of antimicrobial chemotherapy***. 75, 3, p. 531-536 6 p.	5.790	Cor	1	A+
151^	*Zheng, Z., Cheng, Q., Chan, E. W. & Chen, S*.*, Genetic and Biochemical Characterization of VMB-1, a Novel Metallo-β-Lactamase Encoded by a Conjugative, Broad-Host Range IncC Plasmid from Vibrio spp Mar 2020, ***Advanced Biosystems***. 4, 3, 1900221.	New journal	Cor		
150^	*Li, R., Xie, M., Liu, L., Huang, Y., Wu, X., Wang, Z., Chan, E. W. C., Chen, S*.,* Characterisation of a cointegrate plasmid harbouring blaNDM-1 in a clinical Salmonella Lomita strain. Jan 2020, ***International Journal of Antimicrobial Agents.*** 55, 1, 105817.	5.283	Cor		A
149^	*Huang, H., Dong, N., Shu, L., Lu, J., Sun, Q., Chan, E. W., Chen, S*., Zhang, R.*, Colistin-resistance gene mcr in clinical carbapenem-resistant Enterobacteriaceae strains in China, 2014–2019. 2020, ***Emerging Microbes and Infections***. 9, 1, p.	7.163	Cor		A

	237-245 9 p.				
148^	*Zhang R, Dong N, Shen ZQ, Zeng Y, Lu JY, Liu CC, Zhou HW, Hu YY, Sun QL, Cheng QP, Shu LB, Cai JC, Chan EWC, Chen GX, Chen S**. Epidemiological and phylogenetic analysis reveals Flavobacteriaceae as potential ancestral source of tigecycline resistance gene tet(X). ***Nature Communications.*** 2020, Sep 16;11(1):4648	14.919	Cor		A+
2019					
147^	*Yang X., Wai-Chi Chan E., Zhang R.,* ***Chen S****. (2019). A conjugative plasmid that augments virulence in Klebsiella pneumoniae. ***Nature Microbiology.*** https://doi.org/10.1038/s41564-019-0566-7	17.745	Cor	27	A++
146^	*Wong, M. H., Chan, B. K., Chan, E. W. & Chen, S**. Over-Expression of ISAba1-Linked Intrinsic and Exogenously Acquired OXA Type Carbapenem-Hydrolyzing-Class D-ß-Lactamase-Encoding Genes Is Key Mechanism Underlying Carbapenem Resistance in Acinetobacter baumannii. *2019,* ***Frontiers in Microbiology.*** *10, 2809.*	5.640	Cor	9	A
145	*Sun Q, Wang Y, Dong N, Shen L, Zhou H, Hu YY, Gu D,* ***Chen S****, Zhang R, Ji Q.* The application of CRISPR/Cas9-based genome editing in studying the mechanism of pandrug resistance in Klebsiella pneumoniae. ***Antimicrob Agents Chemother***. 2019 Apr 15.	5.191	Co	2	A+
144	*Dong N., Sun Q., Huang Y., Shu L., Ye L., Zhang R.,* ***Chen S****. (2019). Evolution of carbapenem-resistant serotype k1 hypervirulent klebsiella pneumoniae by acquisition of blaVIM-1-bearing plasmid. ***Antimicrobial Agents and Chemotherapy***, v.63, n.9. https://doi.org/10.1128/AAC.01056-19	5.191	Cor	7	A+
143	*Zeng P., Xu C., Cheng Q., Liu J., Gao W., Yang X., Wong K.-Y.,* ***Chen S****., Chan K.-F. (2019). Phenol-Soluble-Modulin-Inspired Amphipathic Peptides Have *Bactericidal Activity against Multidrug-Resistant* Bacteria. ***ChemMedChem***, v.14, n.16, p.1547-1559. https://doi.org/10.1002/cmdc.201900364	3.124	Cor	6	B
142	*Chen D, Chow HY, Po KHL, Ma W, Leung ELY, Sun Z, Liu M,* ***Chen S****, Li X.* Total Synthesis and Structural Establishment/Revision of Antibiotics A54145. ***Org Lett.*** 2019 Jul 19;21(14):5639-5644.	6.005	Co	10	A+
141	Sun, Q., Wang, H., Shu, L., Dong, N., Yang, F., Zhou, H., Chen, S., Zhang, R., Leclercia adecarboxylata From Human Gut Flora Carries mcr-4.3 and blaIMP-4-Bearing Plasmids. 5 Dec 2019. ***Frontiers in Microbiology.*** 10, 2805.	5.640	Cor	4	A
140	*Li R., Chen K., Chan E.W.-C.,* ***Chen S****. (2019). Characterization of the stability and dynamics of Tn6330 in an Escherichia coli strain by nanopore long reads. ***Journal of Antimicrobial Chemotherapy,*** v.74, n.7, p.1807-1811. https://doi.org/10.1093/jac/dkz117	5.790	Cor	4	A+
139	*Zheng Z., Ye L., Chan E.W.-C.,* ***Chen S****. (2019). Identification and characterization of a conjugative blaVIM-1-bearing plasmid in Vibrio alginolyticus of food origin. ***Journal of Antimicrobial Chemotherapy,*** v.74, n.7, p.1842-1847. https://doi.org/10.1093/jac/dkz140	5.790	Cor	2	A+
138	*Ye L., Chan E.W.C.,* ***Chen S****. (2019).* Selective and suppressive effects of antibiotics on donor and recipient bacterial strains in gut microbiota determine transmission efficiency of blaNDM-1-bearing plasmids. ***Journal of Antimicrobial Chemotherapy***, v.74, n.7,	5.790	Cor	2	A+

	p.1867-1875. https://doi.org/10.1093/jac/dkz137				
137	*Zheng Z., Li R., Ye L., Chan E.W.-C., Xia X.,* ***Chen S****. (2019). Genetic characterization of blaCTX-M-55-bearing plasmids harbored by food-borne cephalosporin-resistant Vibrio parahaemolyticus Strains in China. ***Frontiers in Microbiology***, v.10, n.JUN. https://doi.org/10.3389/fmicb.2019.01338	5.640	Cor	2	A
136	*Liu X., Geng S., Chan E.W.-C.,* ***Chen S****. (2019). Increased prevalence of escherichia coli strains from food carrying blaNDM and mcr-1-bearing plasmids that structurally resemble those of clinical strains, China, 2015 to 2017. ***Eurosurveillance***, v.24, n.13. https://doi.org/10.2807/1560-7917.ES.2019.24.13.1800113	6.307	Cor	6	A+
135	*Dong N., Liu L., Zhang R., Chen K., Xie M., Chan E.W.C.,* ***Chen S****. (2019). An IncR plasmid harbored by a hypervirulent carbapenem-resistant klebsiella pneumoniae strain possesses five tandem repeats of the blaKPC-2::NTEKPC-Id Fragment. ***Antimicrobial Agents and Chemotherapy***, v.63, n.3. https://doi.org/10.1128/AAC.01775-18	5.191	Cor	5	A+
134	*Shu L., Dong N., Lu J., Zheng Z., Hu J., Zeng W., Sun Q., Chan E.W.-C., Zhou H., Hu F.,* ***Chen S****, Zhang R****. (2019). Emergence of OXA-232 Carbapenemase-Producing Klebsiella pneumoniae That Carries a pLVPK-Like Virulence Plasmid among Elderly Patients in China. ***Antimicrobial Agents and Chemotherapy***, v.63, n.3. https://doi.org/10.1128/AAC.02246-18	5.191	Cor	30	A+
133	*Lui H.K., Gao W., Cheung K.C., Jin W.B., Sun N., Kan J.W.Y., Wong I.L.K., Chiou J., Lin D., Chan E.W.C., Leung Y.-C., Chan T.H., Chen S., Chan K.-F., Wong K.-Y.* (2019). Boosting the efficacy of anti-MRSA β-lactam antibiotics via an easily accessible, non-cytotoxic and orally bioavailable FtsZ inhibitor. ***European Journal of Medicinal Chemistry***, v.163, p.95-115. https://doi.org/10.1016/j.ejmech.2018.11.052	6.514	Cor	14	A+
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95	*Li R., Ye L., Zheng Z., Chan E.W.C.,* ***Chen S****. (2017). Genetic	5.191	Cor	6	A+

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88	*Zhang R., Chan E.W.-C., Zhou H.,* ***Chen S****. (2017). Prevalence and genetic characteristics of carbapenem-resistant Enterobacteriaceae strains in China. The ***Lancet Infectious Diseases***, v.17, n.3, p.256-257. https://doi.org/10.1016/S1473-3099(17)30072-5	25.071	Cor	18	A++
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82	*Chan K.-F., Sun N., Yan S.-C., Wong I.L.K., Lui H.-K., Cheung K.-C., Yuan J., Chan F.-Y., Zheng Z., Chan E.W.C.,* ***Chen S****., Leung Y.-C., Chan T.H., Wong K.-Y.* (2017). Efficient Synthesis of Amine-Linked 2,4,6-Trisubstituted Pyrimidines as a New Class of Bacterial FtsZ Inhibitors. ***ACS Omega***, v.2, n.10, p.7281-7292. https://doi.org/10.1021/acsomega.7b00701	3.512	Co	14	B
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66	*Guo J., Chan E.W.C.,* ***Chen S****. (2016). Mechanism of substrate recognition by the novel Botulinum Neurotoxin subtype F5. ***Scientific Reports***, v.6. https://doi.org/10.1038/srep19875	4.360	Cor	5	A
65	*Li R., Chan E.W.-C.,* ***Chen S****. (2016). Characterisation of a chromosomally-encoded extended-spectrum β-lactamase gene blaPER-3 in Aeromonas caviae of chicken origin. ***International Journal of Antimicrobial Agents***, v.47, n.1, p.103-105. https://doi.org/10.1016/j.ijantimicag.2015.10.018	5.283	Cor	2	A
64	*Li R., Chiou J., Chan E.W.-C.,* ***Chen S****. (2016). A novel PCR-based approach for accurate identification of Vibrio parahaemolyticus. ***Frontiers in Microbiology***, v.7, n.JAN. https://doi.org/10.3389/fmicb.2016.00044	5.640	Cor	17	A
63	*Zhang R., Lin D., Chan E.W.-C., Gu D., Chen G.-X.,* ***Chen S****. (2016). Emergence of carbapenem-resistant serotype K1 hypervirulent Klebsiella pneumoniae strains in China. ***Antimicrobial Agents and Chemotherapy***, v.60, n.1, p.709-711. https://doi.org/10.1128/AAC.02173-15	5.191	Cor	113	A+

2015					
62	*Lin D,* ***Chen S****: （2015） First detection of conjugative plasmid-borne fosfomycin resistance gene fosA3 in Salmonella isolates of food origin. ***Antimicrobial agents and chemotherapy*** 2015, 59(2):1381-1383.	5.191	Cor	11	A+
61	*Guo J., Wang J., Gao S., Ji B., Waichi Chan E.,* ***Chen S****. (2015). Substrate-based inhibitors exhibiting excellent protective and therapeutic effects against Botulinum Neurotoxin A intoxication. ***Scientific Reports***, v.5. https://doi.org/10.1038/srep16981	4.360	Cor	5	A
60	*Lin D., Chen K., Wai-Chi Chan E.,* ***Chen S****. (2015). Increasing prevalence of ciprofloxacin-resistant food-borne Salmonella strains harboring multiple PMQR elements but not target gene mutations. ***Scientific Reports***, v.5. https://doi.org/10.1038/srep14754	4.360	Cor	37	A
59	*He D., Chiou J., Zeng Z., Liu L., Chen X., Zeng L., Chan E.W.C., Liu J.-H.,* ***Chen S****. (2015). Residues distal to the active site contribute to enhanced catalytic activity of variant and hybrid β-lactamases derived from CTX-M-14 and CTX-M-15. ***Antimicrobial Agents and Chemotherapy***, v.59, n.10, p.5976-5983. https://doi.org/10.1128/AAC.04920-14	5.191	Cor	21	A+
58	*Liu M.,* ***Chen S****. (2015). A novel adhesive factor contributing to the virulence of Vibrio parahaemolyticus. ***Scientific Reports***, v.5. https://doi.org/10.1038/srep14449	4.360	Cor	22	A
57	*Wong M.H.-Y., Liu L., Yan M., Chan E.W.-C.,* ***Chen S****. (2015). Dissemination of IncI2 plasmids that harbor the blaCTX-M element among clinical Salmonella isolates. ***Antimicrobial Agents and Chemotherapy***, v.59, n.8, p.5026-5028. https://doi.org/10.1128/AAC.00775-15	5.191	Cor	25	A+
56	*Guo J.,* ***Chen S****. (2015). Expression and biochemical characterization of light chains of Botulinum neurotoxin subtypes F5 and F7. ***Protein Expression and Purification***, v.111, p.87-90. https://doi.org/10.1016/j.pep.2015.01.014	1.650	Cor	7	B
55	*Li R., Lin D., Chen K., Wong M.H.Y.,* ***Chen S****. (2015). First detection of AmpC β-lactamase blaCMY-2 on a conjugative IncA/C plasmid in a Vibrio parahaemolyticus isolate of food origin. ***Antimicrobial Agents and Chemotherapy***, v.59, n.7, p.4106-4111. https://doi.org/10.1128/AAC.05008-14	5.191	Cor	26	A+
54	*Guo J., Wang J., Chan E.W.,* ***Chen S****. (2015). Exploration of endogenous substrate cleavage by various forms of botulinum neurotoxins. ***Toxicon***, v.100, p.42-45. https://doi.org/10.1016/j.toxicon.2015.04.008	3.033	Cor		B
53	*Chan C.-Y., Guo J., Sun C., Tsang M.-K., Tian F., Hao J.,* ***Chen S****., Yang M. (2015). A reduced graphene oxide-Au based electrochemical biosensor for ultrasensitive detection of enzymatic activity of botulinum neurotoxin A. ***Sensors and Actuators, B: Chemical***, v.220, p.131-137. https://doi.org/10.1016/j.snb.2015.05.052	7.460	Cor	29	A+
52	*Chiou J., Wan S., Chan K.-F., So P.-K., He D., Chan E.W.-C., Chan T.-H., Wong K.-Y., Tao J.,* ***Chen S****. (2015). Ebselen as a potent covalent inhibitor of New Delhi metallo-β-lactamase (NDM-1). ***Chemical Communications***, v.51, n.46, p.9543-9546. https://doi.org/10.1039/c5cc02594j	6.222	Cor	78	A
51	*Po K.H.L., Wong M.H.Y.,* ***Chen S****. (2015). Identification and	5.283	Cor	5	A

	characterisation of a novel plasmid-mediated quinolone resistance gene, qnrVC7, in Vibrio cholerae of seafood origin. ***International Journal of Antimicrobial Agents***, v.45, n.6, p.667-668. https://doi.org/10.1016/j.ijantimicag.2015.02.002				
50	*Shi J., Guo J., Bai G., Chan C., Liu X., Ye W., Hao J.,* ***Chen S***, Yang M. (2015). A graphene oxide based fluorescence resonance energy transfer (FRET) biosensor for ultrasensitive detection of botulinum neurotoxin A (BoNT/A) enzymatic activity. ***Biosensors and Bioelectronics***, v.65, p.238-244. https://doi.org/10.1016/j.bios.2014.10.050	10.618	Co	43	A+
49	*Chiou J., Li R.,* ***Chen S****. (2015). CARB-17 family of β-lactamases mediates intrinsic resistance to penicillins in Vibrio parahaemolyticus. ***Antimicrobial Agents and Chemotherapy***, v.59, n.6, p.3593-3595. https://doi.org/10.1128/AAC.00047-15	5.191	Cor	26	A+
48	*Wong M.H.-Y., Chan E.W.C.,* ***Chen S****. (2015). Isolation of carbapenem-resistant Pseudomonas spp. from food. ***Journal of Global Antimicrobial Resistance***, v.3, n.2, p.109-114. https://doi.org/10.1016/j.jgar.2015.03.006	4.035	Cor	6	B+
47	*Wong M.H.Y., Chan E.W.C.,* ***Chen S****. (2015). Evolution and dissemination of OqxAB-like efflux pumps, an emerging quinolone resistance determinant among members of Enterobacteriaceae. ***Antimicrobial Agents and Chemotherapy***, v.59, n.6, p.3290-3297. https://doi.org/10.1128/AAC.00310-15	5.191	Cor	31	A+
46	*Wong M.H.-Y., Li Y., Chan E.W.-C.,* ***Chen S****. (2015). Functional categorization of carbapenemase- mediated resistance by a combined genotyping and two-tiered Modified Hodge Test approach. ***Frontiers in Microbiology***, v.6, n.MAR. https://doi.org/10.3389/fmicb.2015.00293	5.640	Cor	4	A
45	*Li R., Wong M.H.Y., Zhou Y., Chan E.W.-C.,* ***Chen S****. (2015). Complete nucleotide sequence of a conjugative plasmid carrying blaPER-1. ***Antimicrobial Agents and Chemotherapy***, v.59, n.6, p.3582-3584. https://doi.org/10.1128/AAC.00518-15	5.191	Cor	9	A+
44	*Huang Y., Li J., Gu D., Fang Y., Chan E.W.,* ***Chen S****., Zhang R. (2015). Rapid detection of K1 hypervirulent Klebsiella pneumoniae by MALDI-TOF MS. ***Frontiers in Microbiology***, v.6, n.DEC. https://doi.org/10.3389/fmicb.2015.01435	5.640	Cor	8	A
43	*Wang X., Chen G., Wu X., Wang L., Cai J., Chan E.W.,* ***Chen S****., Zhang R. (2015). Increased prevalence of carbapenem resistant Enterobacteriaceae in hospital setting due to cross-species transmission of the blaNDM-1 element and clonal spread of progenitor resistant strains. ***Frontiers in Microbiology***, v.6, n.MAY. https://doi.org/10.3389/fmicb.2015.00595	5.640	Cor	45	A
2014					
42	*Guo J., Xu C., Li X.,* ***Chen S****. (2014). A simple, rapid and sensitive FRET assay for botulinum neurotoxin serotype B detection. ***PLoS ONE***, v.9, n.12. https://doi.org/10.1371/journal.pone.0114124	3.240	Cor	7	B+
41	*Rao L., Lv L., Zeng Z.,* ***Chen S***., He D., Chen X., Wu C., Wang Y., Yang T., Wu P., Liu Y., Liu J.-H. (2014). Increasing prevalence of extended-spectrum cephalosporin-resistant Escherichia coli in food animals and the diversity of CTX-M genotypes during 2003-2012. ***Veterinary Microbiology***, v.172, n.03-Apr-19, p.534-541. https://doi.org/10.1016/j.vetmic.2014.06.013	3.293	Co	75	A+
40	***Chen S****. (2014). Clostridial neurotoxins: Mode of substrate	3.272	1st /Cor	5	B

	recognition and novel therapy development. ***Current Protein and Peptide Science***, v.15, n.5, p.490-503. https://doi.org/10.2174/1389203711314660086				
39	*Chiou J., Leung T.Y.-C.,* ***Chen S****. (2014). Molecular mechanisms of substrate recognition and specificity of New Delhi metallo-β-lactamase. ***Antimicrobial Agents and Chemotherapy***, v.58, n.9, p.5372-5378. https://doi.org/10.1128/AAC.01977-13	5.191	Cor	27	A+
38	*Wong M.H., Chan E.W., Liu L.Z.,* ***Chen S****. (2014). PMQR genes oqxAB and aac(6')Ib-cr accelerate the development of fluoroquinolone resistance in salmonella Typhimurium. ***Frontiers in Microbiology***, v.5, n.SEP. https://doi.org/10.3389/fmicb.2014.00521	5.640	Cor	41	A
37	*Lin D., Yan M., Lin S., Chen S**. (2014). Increasing prevalence of hydrogen sulfide negative Salmonella in retail meats. ***Food Microbiology***, v.43, p.1-4. https://doi.org/10.1016/j.fm.2014.04.010	5.640	Cor	37	A+
36	*Wong M.H.Y., Yan M., Chan E.W.C., Biao K.,* ***Chen S****. (2014). Emergence of clinical Salmonella enterica serovar typhimurium isolates with concurrent resistance to ciprofloxacin, ceftriaxone, and azithromycin. ***Antimicrobial Agents and Chemotherapy***, v.58, n.7, p.3752-3756. https://doi.org/10.1128/AAC.02770-13	5.191	Cor	68	A+
35	*Lin D., Chen K., Li R., Liu L., Guo J., Yao W., Chen S*.* (2014). Selection of target mutation in rat gastrointestinal tract E. coli by minute dosage of enrofloxacin. ***Frontiers in Microbiology,*** v.5, n.SEP. https://doi.org/10.3389/fmicb.2014.00468	5.640	Cor	8	A
34	*Wang Y., Chan F.-Y., Sun N., Lui H.-K., So P.-K., Yan S.-C., Chan K.-F., Chiou J.,* ***Chen S****., Abagyan R., Leung Y.-C., Wong K.-Y. (2014). Structure-based design, synthesis, and biological evaluation of isatin derivatives as potential glycosyltransferase inhibitors. ***Chemical Biology and Drug Design***, v.84, n.6, p.685-696. https://doi.org/10.1111/cbdd.12361	2.817	Co	16	B
	2013				
33	*Ye W., Guo J.,* ***Chen S****., Yang M.* (2013). Nanoporous membrane based impedance sensors to detect the enzymatic activity of botulinum neurotoxin A. ***Journal of Materials Chemistry B***, v.1, n.47, p.6544-6550. https://doi.org/10.1039/c3tb21152e	6.331	Cor	15	B+
32	*Liu M., Wong M.H.Y.,* ***Chen S****. (2013). Molecular characterisation of a multidrug resistance conjugative plasmid from Vibrio parahaemolyticus. ***International Journal of Antimicrobial Agents***, v.42, n.6, p.575-579. https://doi.org/10.1016/j.ijantimicag.2013.08.014	5.191	Cor	30	A
31	*Guo J., Pan X., Zhao Y.,* ***Chen S****. (2013). Engineering Clostridia Neurotoxins with elevated catalytic activity. ***Toxicon***, v.74, p.158-166. https://doi.org/10.1016/j.toxicon.2013.08.055	3.003	Cor	10	B
30	*Guo J.,* ***Chen S****. (2013). Unique substrate recognition mechanism of the botulinum neurotoxin D light chain. ***Journal of Biological Chemistry***, v.288, n.39, p.27881-27887. https://doi.org/10.1074/jbc.M113.491134	5.157	Cor	8	B+
29	*Wong M.H.Y., Yan M., Chan E.W.C., Liu L.Z., Kan B.,* ***Chen S****. (2013). Expansion of salmonella enterica serovar typhimurium ST34 clone carrying multiple resistance determinants in China. ***Antimicrobial Agents and Chemotherapy***, v.57, n.9, p.4599-4601. https://doi.org/10.1128/AAC.01174-13	5.191	Cor	31	A+
28	*Liu M., Wong M.H.Y.,* ***Chen S****. (2013). Mechanisms of	5.283	Cor	8	A

	fluoroquinolone resistance in Vibrio parahaemolyticus. ***International Journal of Antimicrobial Agents,*** v.42, n.2, p.187-188. https://doi.org/10.1016/j.ijantimicag.2013.04.024				
27	*Wong M.H.Y., Wan H.Y., C**hen S**** (2013). Characterization of multidrug-resistant proteus mirabilis isolated from chicken carcasses. ***Foodborne Pathogens and Disease***, v.10, n.2, p.177-181. https://doi.org/10.1089/fpd.2012.1303	3.171	Cor	16	B
26	*Liu M., **Chen S**** (2013). Draft genome sequence of Vibrio parahaemolyticus V110, isolated from shrimp in Hong Kong. ***Genome Announcements***, v.1, n.3. https://doi.org/10.1128/genomeA.00300-13	NA	Cor	10	B
25	*Wong M.H.Y., **Chen S**** (2013). First detection of oqxAB in Salmonella spp. isolated from food. ***Antimicrobial Agents and Chemotherapy***, v.57, n.1, p.658-660. https://doi.org/10.1128/AAC.01144-12	5.191	Cor	34	A+
24	*Liu M., Yan M., Liu L., **Chen S**** (2013). Characterization of a novel zinc transporter znuA acquired by vibrio parahaemolyticus through horizontal gene transfer. ***Frontiers in Cellular and Infection Microbiology***, v.4, n.OCT. https://doi.org/10.3389/fcimb.2013.00061	5.293	Cor	8	B+
23	*Wong M.H.Y., Zeng L., Liu J.H., **Chen S**** (2013). Characterization of Salmonella food isolates with concurrent resistance to ceftriaxone and ciprofloxacin. ***Foodborne Pathogens and Disease***, v.10, n.1, p.42-46. https://doi.org/10.1089/fpd.2012.1266	3.171	Cor	22	B
2012					
22	***Chen S**** (2012). Clinical uses of botulinum neurotoxins: Current indications, limitations and future developments. ***Toxins***, v.4, n.10, p.913-939. https://doi.org/10.3390/toxins4100913	4.546	1st /Cor	84	B
21	Wong M.H.Y., Liu M., Wan H.Y., ***Chen S*** *. (2012). Characterization of extended-spectrum-β-lactamase-producing Vibrio parahaemolyticus. ***Antimicrobial Agents and Chemotherapy***, v.56, n.7, p.4026-4028. https://doi.org/10.1128/AAC.00385-12	5.191	Cor	39	A+
20	*Zheng H., Zeng Z., **Chen S**., Liu Y., Yao Q., Deng Y., Chen X., Lv L., Zhuo C., Chen Z., Liu J.-H.* (2012). Prevalence and characterisation of CTX-M β-lactamases amongst Escherichia coli isolates from healthy food animals in China. ***International Journal of Antimicrobial Agents***, v.39, n.4, p.305-310. https://doi.org/10.1016/j.ijantimicag.2011.12.001	5.283	Co	123	A
19	***Chen S**** *., Karalewitz A.P.A., Barbieri J.T.* (2012). Insights into the different catalytic activities of Clostridium neurotoxins. ***Biochemistry***, v.51, n.18, p.3941-3947. https://doi.org/10.1021/bi3000098	3.162	1st / Cor	18	B
18	***Chen S***.* （2012） Substrate Specificity and Kinetics of Bacterial Transmembrane Transporters. ***Journal of Membrane Science and Technology***. 2012, 2: 3.	NA	1st /Cor		B
2011					
17	*Deng Y., He L., **Chen S**., Zheng H., Zeng Z., Liu Y., Sun Y., Ma J., Chen Z., Liu J.-H.* (2011). F33:A-:B- and F2:A-:B- plasmids mediate dissemination of rmtB-bla CTX-M-9 group genes and rmtB-qepA in Enterobacteriaceae isolates from pets in China. ***Antimicrobial***	5.191	Co	44	A+

	Agents and Chemotherapy, v.55, n.10, p.4926-4929. https://doi.org/10.1128/AAC.00133-11				
16	***Chen S****., Barbieri J.T.* (2011). Association of botulinum neurotoxin serotype a light chain with plasma membrane-bound SNAP-25. ***Journal of Biological Chemistry***, v.286, n.17, p.15067-15072. https://doi.org/10.1074/jbc.M111.224493	5.157	1st /Cor	31	B+
15	***Chen S****., Wan H.Y. (*2011). Molecular mechanisms of substrate recognition and specificity of botulinum neurotoxin serotype F. ***Biochemical Journal***, v.433, n.2, p.277-284. https://doi.org/10.1042/BJ20101310	3.857	1st /Cor	14	B
14	*Deng Y., Zeng Z.,* ***Chen S****., He L., Liu Y., Wu C., Chen Z., Yao Q., Hou J., Yang T., Liu J.-H.* (2011). Dissemination of IncFII plasmids carrying rmtB and qepA in Escherichia coli from pigs, farm workers and the environment. ***Clinical Microbiology and Infection***, v.17, n.11, p.1740-1745. https://doi.org/10.1111/j.1469-0691.2011.03472.x	7.117	Co	40	A+
Before 2010					
13	*Zhao J., Chen Z.,* ***Chen S****., Deng Y., Liu Y., Tian W., Huang X., Wu C., Sun Y., Sun Y., Zeng Z., Liu J.-H.* (2010). Prevalence and dissemination of oqxAB in Escherichia coli isolates from animals, farmworkers, and the environment. ***Antimicrobial Agents and Chemotherapy***, v.54, n.10, p.4219-4224. https://doi.org/10.1128/AAC.00139-10	5.191	Co	119	A+
12	*Sun Y., Zeng Z.,* ***Chen S****., Ma J., He L., Liu Y., Deng Y., Lei T., Zhao J., Liu J.-H.* (2010). High prevalence of blaCTX-M extended-spectrum β-lactamase genes in Escherichia coli isolates from pets and emergence of CTX-M-64 in China. ***Clinical Microbiology and Infection***, v.16, n.9, p.1475-1481. https://doi.org/10.1111/j.1469-0691.2010.03127.x	8.067	Co	123	A+
11	***Chen S****., Barbieri J.T.* (2009). Engineering botulinum neurotoxin to extend therapeutic intervention. ***Proceedings of the National Academy of Sciences of the United States of America***, v.106, n.23, p.9180-9184. https://doi.org/10.1073/pnas.0903111106	11.205	1st	57	A+
10	***Chen S****., Hall C., Barbieri J.T.* (2008). Substrate recognition of VAMP-2 by botulinum neurotoxin B and tetanus neurotoxin. ***Journal of Biological Chemistry,*** v.283, n.30, p.21153-21159. https://doi.org/10.1074/jbc.M800611200	5.157	1st	53	B+
9	***Chen S****., Barbieri J.T. (20*07). Multiple pocket recognition of SNAP25 by botulinum neurotoxin serotype E. ***Journal of Biological Chemistry***, v.282, n.35, p.25540-25547. https://doi.org/10.1074/jbc.M701922200	5.157	1st	41	B+
8	***Chen S****., Kim J.-J.P., Barbieri J.T. (*2007). Mechanism of substrate recognition by botulinum neurotoxin serotype A. ***Journal of Biological Chemistry***, v.282, n.13, p.9621-9627. https://doi.org/10.1074/jbc.M611211200	5.157	1st	69	B+
7	***Chen S****., Cui S., McDermott P.F.*, Zhao S., White D.G., Paulsen I., Meng J. (2007). Contribution of target gene mutations and efflux to decreased susceptibility of Salmonella enterica serovar typhimurium to fluoroquinolones and other antimicrobials. ***Antimicrobial Agents and Chemotherapy***, v.51, n.2, p.535-542. https://doi.org/10.1128/AAC.00600-06	5.191	1st	106	A+
6	*Fu Z.,* ***Chen S****., Baldwin M.R., Boldt G.E., Crawford A., Janda K.D.,*	2.865	Co	48	B

	Barbieri J.T., Kim J.-J.P. (2006). Light chain of botulinum neurotoxin serotype A: Structural resolution of a catalytic intermediate. ***Biochemistry***, v.45, n.29, p.8903-8911. https://doi.org/10.1021/bi060786z				
5	***Chen S****., Barbieri J.T. (2006)*. Unique substrate recognition by botulinum neurotoxins serotypes A and E. ***Journal of Biological Chemistry***, v.281, n.16, p.10906-10911. https://doi.org/10.1074/jbc.M513032200	5.157	1st	84	B+
4	***Chen S****., Zhao S., McDermott P.F., Schroeder C.M., White D.G., Meng J. (2005)*. A DNA microarray for identification of virulence and antimicrobial resistance genes in Salmonella serovars and Escherichia coli. ***Molecular and Cellular Probes***, v.19, n.3, p.195-201. https://doi.org/10.1016/j.mcp.2004.11.008	1.951	1st	60	B
3	*Yang H.,* ***Chen S****., White D.G., Zhao S., McDermott P., Walker R., Meng J.* (2004). Characterization of multiple-antimicrobial-resistant Escherichia coli isolates from diseased chickens and swine in China. ***Journal of Clinical Microbiology***, v.42, n.8, p.3483-3489. https://doi.org/10.1128/JCM.42.8.3483-3489.2004	5.948	Co	185	A
2	***Chen S****., Zhao S., White D.G., Schroeder C.M., Lu R., Yang H., McDermott P.F.*, Ayers S., Meng J. (2004). Characterization of Multiple-Antimicrobial-Resistant Salmonella Serovars Isolated from Retail Meats. ***Applied and Environmental Microbiology***, v.70, n.1, p.1-7. https://doi.org/10.1128/AEM.70.1.1-7.2004	4.792	1st	304	B+
1	White D.G., Zhao S., Sudler R., Ayers S., Friedman S., **Chen S**., McDermott P.F., McDermott S., Wagner D.D., Meng J. (2001). The isolation of antibiotic-resistant salmonella from retail ground meats. ***New England Journal of Medicine***, v.345, n.16, p.1147-1154. https://doi.org/10.1056/NEJMoa010315	91.245	Co	387	A++

Book Chapter

1. Chen, S., Barbieri, J.T. Light Chains of the Botulinum neurotoxins. ***Neurotoxin***. Edited by Keith Foster, Springer, CO, UK, 2013.
2. Chen, S.* Clostridial Neurotoxins as therapeutics. ***Microbial Toxins-Genetics, Molecular Biology and Novel Applications.*** Edited by Thomas Proft, The Horizon Scientific Press, UK 2013.

V) RESEARCH GRANTS

I have obtained over HKD 60 million research funding since I established my lab in Hong Kong in 2009 with most of the funding being external funding from UGC, HMRF and mainland government. I have currently HKD ~22.977 million ongoing research funding in CityU. Some of these funding were transferred from HK PolyU, while most of which were obtained after joining CityU in the past year. I want to stress out that in addition to the funding obtained in 2020-2021, my Theme Based Research proposal has been shortlisted for interview in the past two consecutive years, which is the first in CityU. I will continue to improve it and aim to get it funded in the near future. The detail funding information is shown as follow:

No.	Role	Title	Duration	Funding Agent / number	Amounts (HKD millions)
Ongoing projects (~22.977 millions)					

41	PI	Epidemiology of Hypervirulent and Multidrug-resistant Klebsiella Pneumoniae in China Including Hong Kong SAR	01/21-01/23	9610501/ CityU	0.600
40	PI	Evolution of virulence plasmids and their role in clinical adaptation and virulence expression of ST11 carbapenemresistant Klebsiella pneumoniae	11/21-10/24	11100321/GRF	1.126
39	PI	開發治療耐藥菌的新治療方案	04/21 - 03/24	9680296/MFPRC	RMB 2.500
38	PI	大宗食品中高污染致病性蠟樣芽孢杆菌危害形成與防控分子機制	05/21 - 11/25	9240057/廣東省基礎與應用基礎研究重大項目	5.427/6.500
37	Co-PI	Integrative Chemical Biology Approaches to Investigate the Biological Process of Bacterial Pseudaminic Acid	06/21-05/24	C7003-20G /CRF	1.00/4.55
36	Co-PI	Development of Glycopeptide-based Anti SARS-CoV-2 Vaccines	06/21-05/24	C7147-20G / CRF	1.500/5.956
35	PI	Establishment of a Metagenomic Database of Deep Sea Microorganisms in South China Sea	01/21 - 12/22	9231422 /HK South China Sea project	0.600
34	PI	Discovery of Novel Antibiotics from Lactic Acid Bacteria	08/19 – 08/22	SGP/CityU / 9380110	4.000
33	Co-I	Mechanistic Study on Inhibition of Ebselen, AMA and Captopril towards New Delhi Metallo-β-lactamase (NDM-1) by Mass Spectrometry	01/18 – 12/20	GRF / 15304117	0.522898
32	Co-PI	Novel Antibiotics from Genome Mining and Diversityoriented Synthesis	06/20 – 06/23	CRF / C6026-19GF	0.6/5.250
31	PC	Development of a colistin / adjuvant antimicrobial regimen that exhibits low toxicity and high efficacy in combating multidrug-resistant bacterial pathogens	06/19 – 06/23	RIF / R5011-18F	5.95952
30	PI	Deciphering the Mechanisms of Action of Phosphoethanolamine Transferase, MCR-1, A Colistine Resistance Protein and Development of Transitional State Inhibitors	04/19 – 04/23	NSFC-RGC, N_PolyU521/18	0.998717
29	Co-PI	Metabolic outcome and mechanisms of antibiotic resistance development of animal antimicrobial drugs	01/18 – 12/20	MOST 13•5 R&D /2018YFD 0500300	RMB 0.5/14.130
28	PI	Development of rapid and sensitive detection methods for Salmonella and norovirus	10/18 – 09/21	Shenzhen BRF / 20170410 160041091	RMB 3.000
Completed projects (over 40millions)					
27	PC	Development of novel inhibitors targeting the resistance mechanisms of clinical superbugs	06/17 – 06/20	CRF / C5026-16G	7.1158
26	Co-I	Synthesis and functional optimization of novel FtsZ inhibitors as potent efficacy booster	01/16 – 06/19	GRF / 15100115	0.691052

		agents for anti-MRSA β-lactam antibiotics			
25	Co-I	Elucidation of anti-hypertension mechanism by a novel Lactobacillus rhamnosus strain in the DOCA-salt hypertensive rats:from the point of view of alteration of gut microbiome	09/18 – 08/20	HMRF / 15161391	1.063
24	Co-I	Evaluation of anxiolytic and antidepressant effects of colonspecific delivery and control-release of probiotics on brain and isulphid using a mouse model of social defeat stress	08/18 – 07/20	HMRF / 05161016	1.197
23	Co-PI	Total synthesis and medicinal chemistry of cyclic peptide-based antibacterial compounds: an integrative programme for novel antibiotic development	05/16 – 04/ 19	CRF / C7038-15G	4.600
22	Co-I	Dissecting the molecular mechanism of Nck-mediated signal transduction in actin pedestal formation by enteropathogenic Escherichia coli infection	08/16 – 07/18	HMRF / 15140052	1.198
21	PI	Re-defining the molecular basis of carbapenem resistance in clinical *Acinetobacter baumannii* isolates	07/16 – 07/18	HMRF / 15141322	1.200
20	Co-PI	Surveillance and origin investigation of foodborne pathogens in Hong Kong and Guangdong Province	01/15 – 01/17	Guangdong PSTB	2.000
19	Co-PI	Development of foodborne pathogens conserved surface proteins based rapid detection platform	01/15 – 01/18	Guangdong MSTIB	RMB 1.000
18	PI	Establishment of Shenzhen Key Laboratory for Food Biological Safety Control	12/15 – 12/18	Shenzhen MSTIC /ZDSY201405 09142430241	3.780
17	PI	Development of novel tridenate inhibitors targeting to active site residues and Zin ions of NDM-1	07/15 – 07/17	HMRF / 14130432	0.997
16	PI	Characterization the role of OqxAB in Salmonella virulence and antimicrobial resistance	07/15 – 07/17	HMRF / 14130402	0.997
15	PI	Mechanisms of substrate recognition and specificity of B2 and B1 subclass of metallo-β-lactamases: insights into their different spectrums of substrate specificity	07/15 – 07/17	HMRF / 14130422	0.997
14	PI	Molecular mechanisms of bacterial response to antibiotic in animal GI tract, Chinese Basic Research and Development (973) Program	01/13 – 12/17	MOST / 2013CB127201	6.650
13	PI	Matching fund for Chinese Basic Research and Development (973) Program	12/12 – 08/17	PolyU	1.000
12	PI	Matching fund for the Establishment of Shenzhen Key Laboratory for Food Biological Safety Control	01/15 – 01/17	PolyU	3.780

11	PI	Large equipment grant for establishment of platform for Microbiota research	01/15 – 01/17	PolyU	7.800
10	Co-PI	Development of daptomycin-based next-generation antibiotics to combat multidrug-resistant bacteria. Health and Medical Research Fund	01/14 – 12/15	HMRF /13121182	0.992
9	PI	Genomic and Transcriptomic Analyses of the Salmonella Virulence Regulatory Network	01/14 – 01/16	HMRF / 13121412	0.992
8	PI	Molecular mechanisms of fluoroquinolone and expanded-spectrum cephalosporin resistance in Vibrio parahaemolyticus	01/14 – 12/15	HMRF / 13121422	0.992
7	PI	Development of Rapid Assay Platform for Salmonella Detection in Food	06/12 -12/15	PolyU / G- YK68	0.25
6	PI	Molecular mechanisms of carbapenem resistance in emerging Gram-negative human pathogens in Hong Kong	01/13 -12/14	HMRF /12111612	0.992
5	PI	Development of peptide and peptidomimetic inhibitors for botulinum neurotoxin A	01/10 – 12/13	RGC / 560211	0.750
4	Co-PI	Mechanisms of Action and Substrate Recognition of BlaIMP Family of Metallo β-lactamase	08/11 – 08/13	PolyU /G-YX5L	0.624
3	PI	Mechanisms of Intracellular Localization of the Light Chain (LC) of Botulinum Neurotoxin Serotype A	09/10 – 09/13	PolyU /A-PK05	0.118969
2	PI	Mechanisms of Substrate Recognition and Specificity of Botulinum Neurotoxin Serotype F / G-YJ15,	05/10 – 07/13	PolyU	0.2615
1	PI	Isolation and Characterization of Vibrio Paraheamolyticus from Sea Food in Hong Kong	09/09 - 12/11	PolyU / G-U662	0.3

MSTIC, Shenzhen Municipal Science and Technology Innovation Council;
MSTIB, Guangzhou Municipal Science and Technology and Information Bureau;
PST, Guangdong Provincial Science and Technology Bureau;
BRFSZ, Basic Research Fund of Shenzhen City.

VI) PATENTS

1. Engineering Botulinum Neurotoxin. US Patent Serial No. 61/169,031, (2011). EU Patent Serial No. 20120039941 (2012), licensed by Syntaxin Ltd. Oxon, UK in 2012.
2. Engineering botulinum neurotoxin with elevated activity. US patent provisional No. 61868560. PCT/CN2014/084725
3. Method to develop fluorescent labelled *E. coli* capable of colonization in animal GI tract, China patent: 201410462647.6
4. Methods to develop non-fluorescent labelled, tracable *E. coli*, China patent: 201410461450.0
5. Development of combinational therapy based on different serotypes of BoNT, China patent: 201510306128.5
6. Potent peptide-based inhibitors against BoNT/A, China patent: 201510623351.2
7. A test strip for detecting broad spectrum Salmonella in food and preparation thereof, China patent: 201711351523.0
8. A toxin sensor based on an organic photoelectrochemical transistor and a preparation method thereof, China patent: 201711464221.4

9. A biosensor for Norovirus detection and its preparation and use, China patent: 201711351548.0
10. A biosensor for detection of Salmonella and its preparation and use, China patent: 201711348592.6
11. HKU/ref: IP00761 (PolyU ref: PAT-1139): New cyclic peptided-based antibacterial agent.
12. United States provisional application 62/642,080, filed on March 13, 2018: Repurposing cetylpyridinium chloride and domiphen bromide as phosphoethanolamine transferase inhibitor-based adjuvants that significantly potentiate colistin activity and resensitize mcr-1-bearing bacterial pathogens
13. United States Provisional Application Number 62/642,053, filed on March 3, 2018: 1,2-BENZISOSELENAZOL-3(2H)-ONE derivatives as carbapenem antibiotic adjuvants

VII) EDITORIAL BOARD AND AD HOC REVIEWER

1. Associate Editor, *Frontiers in Microbiology*, Swiss Federal Institute of Technology in Lausanne, Switzerland, since 2019.
2. Associate Editor, *Annals of Clinical Microbiology and Antimicrobials*, BMC and Springer Nature, since 2018
3. Associate Editor, *Scientific Reports*, Nature Publishing Group, Springer Nature, since 2017.
4. Associate Editor, *PeerJ*, PeerJ, Inc, since 2017.
5. Editorial board member, *The Journal of Membrane Science and technology*, OMICS Publishing Group, USA since 2010.
6. Ad Hoc Reviewer, *The Lancet Infectious Diseases*, *Nature Microbiology, Nature Communications, The Lancet Global Health*, *EBioMedicine, Emerging Microbes and Infections, Eurosurveillance, Journal of Antimicrobial Chemotherapy, Antimicrobial Agent and Chemotherapy, PloS ONE, Scientific Reports, International Journal of Antimicrobial Agents, Toxins, Toxicon, Pediatrics, Frontiers in Microbiology, BMC Infectious Diseases, Food Microbiology, Current Applied Physics, Human Vaccines & Immunotherapeutics, African Journal of Microbial Research, Endocrine, Metabolic & Immune Disorders- Drug Targets,* et al.

VIII) INVITED TALKS AND LECTURES (SELECTED)

1. Sheng CHEN, 2010 International Symposium on the Food Safety of Animal Origin: Detection and Control. Beijing China, June 2-6, 2010
2. Sheng CHEN, University 100 year's anniversary talk series, College of Agriculture Biotechnology, South China Agriculture university, Guangzhou, China, 06/03/2011
3. Sheng CHEN, College of Food Science and Technology, China Agriculture university, Beijing, China, 04/06/2013
4. Sheng CHEN, College of Food Science and technology, Jiangnan University, Wuxi, China, 08/04/ 2013
5. Sheng CHEN, College of Animal Science, Nanjing Agriculture University, Nanjing, China, 08/03/2014.
6. Sheng CHEN, Institute of Food Safety and Monitoring Technology, Jiangsu Academy of Agricultural Sciences, 08/07/2014
7. Sheng CHEN, College of Life Science, Sichuan University, Nanjing, China, 11/19/2014.
8. Sheng CHEN, College of Veterinary Medicine, South China Agriculture university, Guangzhou, China, June, 2014
9. Sheng CHEN, College of Veterinary Medicine, Jilin University, 11/15/2015.
10. Sheng CHEN, Department of Clinical Medicine, School of Medicine, Zhejiang University, Hangzhou, China, 11/19/2015.

11. Sheng CHEN, International conference on Global Food Safety and Antimicrobial Resistance, Shenzhen, China, 14~17/11/2016
12. Sheng Chen, The 5th China Food Safety Summit, Guangdong, China. 08/12/2016
13. Sheng Chen, Integral Conversation, Guilin, 09-11/11/2017
14. Sheng Chen, The 6th China Food Safety Summit, Xian, China. 10/12/2018
15. Sheng CHEN, College of Life Science, Northwesten University, Xian China, 10/2018
16. Sheng CHEN, College of veterinary Medicine, South China Agricultural University, Guangzhou, China, 11/2018
17. Sheng CHEN, TOXINS 2019, International Neurotoxin Association, as organizer and Section Chair, Copenhagen Denmark, 01/2019
18. Sheng CHEN, Hospital Authority Convention 2019, Convention and Exhibition Center, Hong Kong, 05/2019
19. Sheng CHEN, 2nd Huaxia Clinical Microbiology and Infection Congress & 8th Perking-Hong Kong Infection and Clinical Microbiology Congress, Zhengzhou, China, 11/2019
20. Sheng CHEN, College of Veterinary Medicine, Henan Agriculture University, Zhengzhou, China, 11/2019