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Director, Dr. Kennedy Y. H. Wong Endowed Professor in Chinese Medicine,  
Associate Director  
School of Chinese Medicine  
Chinese Medicine Clinical Study Centre  
Hong Kong Baptist University Joint Centre for Pain Research  
Institute for Advancing Translational Medicine in Bone and Joint Diseases  
Institute of Integrated Bioinformatics & Translational Science  
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## Chinese Name

呂愛平

## Employment

### **Dr. Kennedy Y. H. Wong Endowed Professor in Chinese Medicine**

School of Chinese Medicine  
Hong Kong Baptist University  
1 Sept 2023 → present

### **Associate Director**

Chinese Medicine Clinical Study Centre  
Hong Kong Baptist University  
1 Sept 2022 → present

### **Director**

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Hong Kong Baptist University  
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1 Sept 2022 → present

### **Director**

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Hong Kong Baptist University  
1 Sept 2022 → present

## Research outputs

### **Protocol of the CONSORT and SPIRIT Extension for multicenter clinical trials**

Zhang, X., Dong, C., Wang, N., Chan, C., Lau, C. T., Wang, J., Miao, J., Yao, C., Li, Y., Lu, A., Moher, D. & Bian, Z., 15 Sept 2023, In: *Frontiers in Public Health*. 11, 6 p., 1241152.

### **Nucleic acid amphiphiles: synthesis, properties and applications**

Gubu, A., Zhang, X., Lu, A., Zhang, B., Ma, Y. & Zhang, G., 12 Sept 2023, In: *Molecular Therapy - Nucleic Acids*. 33, p. 144-163 20 p.

### **Gut microbiota-derived tryptamine and phenethylamine impair insulin sensitivity in metabolic syndrome and irritable bowel syndrome**

Zhai, L., Xiao, H., Lin, C., Wong, H. L. X., Lam, Y. Y., Gong, M., Wu, G., Ning, Z., Huang, C., Zhang, Y., Yang, C., Luo, J., Zhang, L., Zhao, L., Zhang, C., Lau, J. Y-N., Lu, A., Lau, L-T., Jia, W., Zhao, L., & 1 others Bian, Z-X., 17 Aug 2023, In: *Nature Communications*. 14, 1, 14 p., 4986.

### **Exploring the Potential of Aptamers in Targeting Neuroinflammation and Neurodegenerative Disorders: Opportunities and Challenges**

Kong, A. H. Y., Wu, A. J., Ho, O. K. Y., Leung, M. M. K., Huang, A. S., Yu, Y., Zhang, G., Lyu, A., Li, M. & Cheung, K. H., 2 Jul 2023, In: *International Journal of Molecular Sciences*. 24, 14, 33 p., 11780.

### **Protocol for the development of a reporting guideline for clinical trials with integrated Chinese and western medicine interventions: the CONSORT extension for ICWM**

Wang, J., Zhang, X., Wang, P., Han, F., Li, J., Lu, A. & Bian, Z., 29 Jun 2023, In: *Frontiers in Medicine*. 10, 8 p., 1190560.

### **Prevalence and risk factors of long COVID 6–12 months after infection with the Omicron variant among nonhospitalized patients in Hong Kong**

Luo, J., Zhang, J., Tang, H. T., Wong, H. K., Lyu, A., Cheung, C. H. & Bian, Z., Jun 2023, In: *Journal of Medical Virology*. 95, 6, 12 p., e28862.

### **Reporting quality of randomized controlled trials of angina pectoris with integrated traditional Chinese and western medicine interventions: a cross-sectional study**

Deng, J., He, J., Wang, J., Cheng, C. W., Jiao, Y., Wang, N., Li, J., Wang, P., Han, F., Lyu, A., Bian, Z. & Zhang, X., 23 May 2023, In: *BMC Medical Research Methodology*. 23, 1, 12 p., 124.

### **Editorial: Aptamer-based structural biology, computational modelling, translational research and drug discovery, Volume II**

Ma, Y., Yu, Y., Zhang, B., Lu, A. & Zhang, G., 15 May 2023, In: *Frontiers in Cell and Developmental Biology*. 11, 2 p., 1195372.

### **Knockdown of skeletal muscle-related micromas positively affects bone mass and microstructure in mice**

LI, N., Zhong, C., LI, Z., Li, D., Xue, S., Ma, S., Zhang, H., Zhang, Z., Zhang, B., Lyu, A., Zhang, G. & Liu, J., 7 May 2023, p. 499-500. 2 p.

### **Accurate and interpretable gene expression imputation on scRNA-seq data using IGSimpute**

Xu, K., Cheong, C. W., Veldsman, W. P., Lyu, A., Cheung, W. K. & Zhang, L., May 2023, In: *Briefings in Bioinformatics*. 24, 3, 12 p., bbad124.

### **A transgenic reporter mouse line reveals exosome mediated muscle-bone crosstalk**

Li, N., Ma, S., Li, P., Li, D., Zhong, C., Li, Z., Zhang, H., Zhang, Z., Lu, J., Zhang, B., Lu, A., Zhang, G. & Liu, J., May 2023

### **Design, Synthesis and Evaluation of Novel Exosome Inhibitors**

Zhang, H., Zuo, Y., Li, Z., Li, N., Zhong, C., Zhang, B., Lu, A., Lu, J., Zhang, G. & Liu, J., May 2023.

### **Elevated 11 $\beta$ -hsd1 in osteoblast impaired glucose uptake and osteogenesis to exacerbate high-fat diet-induced obesity and bone loss**

Zhong, C., Li, N., Wang, S., Li, D., Li, Z., ZHANG, H., Xue, S., Lu, A., Ren, F., Liu, J. & Zhang, G., May 2023, p. 262-263. 2 p.

**Macrophagic Sclerostin Loop2-ApoER2 Interaction Required by Sclerostin for Suppressing Inflammatory Responses (Abstract)**

Wang, L., Zhang, N., Liu, J., Yang, X., Yu, Y., Li, D., Jiang, H., Sun, M., Li, N., Ma, D., Huang, Y., Lu, A., Zhang, B. & Zhang, G., May 2023, In: *Metabolism: Clinical and Experimental*. 142, Supplement, p. 155427 1 p.

**Sclerostin loop3-LRP4 Interaction Required by Sclerostin for Lipid and Glucose Metabolism Impairment in Adipocyte**

Jiang, H., Li, D., Wang, L., Zhang, N., Yu, S., Zhang, H., Liu, J., Ma, D., Lu, A., Sheng, H., Zhang, B. & Zhang, G., May 2023, In: *Metabolism: Clinical and Experimental*. 142, Supplement, 1 p., 155432.

**Sclerostin Loop3 Participates in Whole-body Lipid and Glucose Metabolism Impairment Effects of Sclerostin (Abstract)**

Li, D., Jiang, H., Wang, L., Zhang, N., Yu, S., Zhang, H., Li, N., Liu, J., Ma, D., Lu, A., Sheng, H., Zhang, B. T. & Zhang, G., May 2023, In: *Metabolism: Clinical and Experimental*. 142, Supplement, 1 p., 155439.

**Pan-genome wide association study of *Glaesserella parasuis* highlights genes associated with virulence and biofilm formation**

Zhou, Y., Jiang, D., Yao, X., Luo, Y., Yang, Z., Ren, M., Zhang, G., Yu, Y., Lu, A. & Wang, Y., 17 Apr 2023, In: *Frontiers in Microbiology*. 14, 22 p., 1160433.

**Matched Molecular Pair Analysis in Drug Discovery: Methods and Recent Applications**

Yang, Z., Shi, S., Fu, L., Lu, A., Hou, T. & Cao, D., 13 Apr 2023, In: *Journal of Medicinal Chemistry*. 66, 7, p. 4361-4377 17 p.

**Development of a Real-Time TaqMan RT-PCR Assay for the Detection of NADC34-like Porcine Reproductive and Respiratory Syndrome Virus**

Tu, T., Pang, M., Jiang, D., Zhou, Y., Wu, X., Yao, X., Luo, Y., Yang, Z., Ren, M., Lu, A., Zhang, G., Yu, Y. & Wang, Y., 6 Apr 2023, In: *Veterinary Sciences*. 10, 4, 11 p., 279.

**The roles of hepatokine and osteokine in liver-bone crosstalk: Advance in basic and clinical aspects**

LI, Z., Wen, X., LI, N., ZHONG, C., Chen, L., Zhang, F., ZHANG, G., Lu, A. & LIU, J., 6 Apr 2023, In: *Frontiers in Endocrinology*. 14, 1149233.

**Exploring High-Quality Microbial Genomes by Assembly of Linked-Reads with High Barcode Specificity Using Deep Learning**

Zhang, Z., Wang, H., Yang, C., Huang, Y., Yue, Z., Chen, Y., Han, L., Lyu, A., Fang, X. & Zhang, L., Apr 2023.

**Natural Compounds Targeting the Autophagy Pathway in the Treatment of Colorectal Cancer**

Du, Y-X., Mamun, A. A., Lyu, A-P. & Zhang, H-J., Apr 2023, In: *International Journal of Molecular Sciences*. 24, 8, 28 p., 7310.

**STandards for Reporting Interventions in Clinical Trials Of Tuina/Massage (STRICTOTM): Extending the CONSORT statement**

Zhang, X., Liang, F., Lau, C. T., Chan, J. CP., Wang, N., Deng, J., Wang, J., Ma, Y., Zhong, L. L. D., Zhao, C., Yao, L., Wu, T., Lyu, A., Tian, G., Shang, H., Miao, J., Bian, Z. & STRICTOTM Working Group, 14 Mar 2023, In: *Journal of Evidence-Based Medicine*. 16, 1, p. 68-81 14 p.

**Reporting assessment of multicenter clinical trial protocols: A cross-sectional study**

Zhang, X., Wang, N., Zhang, L., Cheng, C. W., Liu, Z., Liang, F., Xiong, W., Deng, J., Shi, D., Cui, W., Ma, Y., Wu, T., Chan, C. P., Lyu, A., Yao, C. & Bian, Z., 3 Mar 2023, In: *Journal of Evidence-Based Medicine*. 16, 1, p. 16-18 3 p.

**Chemically modified aptamers for improving binding affinity to the target proteins *via* enhanced non-covalent bonding**

Chen, Z., Luo, H., Gubu, A., Yu, S., Zhang, H., Dai, H., Zhang, Y., Zhang, B., Ma, Y., Lu, A. & Zhang, G., 23 Feb 2023, In: *Frontiers in Cell and Developmental Biology*. 11, 12 p., 1091809.

**Weekly symptom profiles of nonhospitalized individuals infected with SARS-CoV-2 during the Omicron outbreak in Hong Kong: A retrospective observational study from a telemedicine center**

Luo, J., Zhang, J., Tang, H. T., Wong, H. K., Ma, Y., Xie, D., Peng, B., Lyu, A., Cheung, C. H. & Bian, Z., Feb 2023, In: *Journal of Medical Virology*. 95, 2, 10 p., e28447.

**Structural Analysis and Prediction of Hematotoxicity Using Deep Learning Approaches**

Long, T-Z., Shi, S-H., Liu, S., Lu, A-P., Liu, Z-Q., Li, M., Hou, T-J. & Cao, D-S., 9 Jan 2023, In: *Journal of Chemical Information and Modeling*. 63, 1, p. 111-125 15 p.

**Reducing false positive rate of docking-based virtual screening by active learning**

Wang, L., Shi, S-H., Li, H., Zeng, X-X., Liu, S-Y., Liu, Z-Q., Deng, Y-F., Lu, A-P., Hou, T-J. & Cao, D-S., Jan 2023, In: *Briefings in Bioinformatics*. 24, 1, 11 p., bbac626.

**TCMSID: a simplified integrated database for drug discovery from traditional chinese medicine**

Zhang, L-X., Dong, J., Wei, H., Shi, S-H., Lu, A-P., Deng, G-M. & Cao, D-S., 31 Dec 2022, In: *Journal of Cheminformatics*. 14, 11 p., 89.

**Control of SARS-CoV-2 infection by MT1-MMP-mediated shedding of ACE2**

Guo, X., Cao, J., Cai, J. P., Wu, J., Huang, J., Asthana, P., Wong, S. K. K., Ye, Z. W., Gurung, S., Zhang, Y., Wang, S., Wang, Z., Ge, X., Kwan, H. Y., Lyu, A., Chan, K. M., Wong, N., Huang, J., Zhou, Z., Bian, Z. X., & 2 others Yuan, S. & Wong, H. L. X., 23 Dec 2022, In: *Nature Communications*. 13, 17 p., 7907.

**Roles of Resolvins in Chronic Inflammatory Response**

Liu, C., Fan, D., Lei, Q., Lu, A. & He, X., 1 Dec 2022, In: *International Journal of Molecular Sciences*. 23, 23, 16 p., 14883.

**A machine learning model for disease risk prediction by integrating genetic and non-genetic factors**

Xu, Y., Wang, C., Li, Z., Cai, Y., Young, O., Lyu, A. & Zhang, L., Dec 2022, *Proceedings - 2022 IEEE International Conference on Bioinformatics and Biomedicine, BIBM 2022*. Adjeroh, D., Long, Q., Shi, X. M., Guo, F., Hu, X., Aluru, S., Narasimhan, G., Wang, J., Kang, M., Mondal, A. M. & Liu, J. (eds.). IEEE, p. 868-871 4 p. (Proceedings - IEEE International Conference on Bioinformatics and Biomedicine, BIBM).

**The endoplasmic reticulum participated in drug metabolic toxicity**

Huang, Q., Chen, Y., Zhang, Z., Xue, Z., Hua, Z., Luo, X., Li, Y., Lu, C., Lu, A. & Liu, Y., Dec 2022, In: *Cell Biology and Toxicology*. 38, 6, p. 945-961 17 p.

**M cells of mouse and human Peyer's patches mediate the lymphatic absorption of an *Astragalus* hyperbranched heteroglycan**

Zhang, Q., Hao, S., Li, L., Liu, M., Huo, C., Bao, W., Cheng, H., Fung, H., Wong, T., Wu, W., Leung, P., Wang, S., Li, T., Zhang, G., Li, M., Zhao, Z., Jia, W., Bian, Z., Mitchison, T., Zhang, J., & 2 others Lyu, A. & Han, Q., 15 Nov 2022, In: *Carbohydrate Polymers*. 296, 12 p., 119952.

**Anti-Cancer Composition Comprising of Halofuginone and Sesquiterpene Lactone Compounds of *Artemisia Aplacea* and the Use Thereof (Granted)**

BIAN, Z., CHEN, G., Gong, R. H., Yang, D. & LYU, A., 2 Nov 2022, IPC No. A61-BZ-Halo-DE01, Patent No. DE 60 2016 076 135.1, Priority date 27 Sept 2016, Priority No. DE 60 2016 076 135.1

**Strategies for developing long-lasting therapeutic nucleic acid aptamer targeting circulating protein: The present and the future**

Zhang, Y., Zhang, H., Chan, D. W. H., Ma, Y., Lu, A., Yu, S., Zhang, B. & Zhang, G., 1 Nov 2022, In: *Frontiers in Cell and Developmental Biology*. 10, 11 p., 1048148.

**dynDeepDRIM: a dynamic deep learning model to infer direct regulatory interactions using time-course single-cell gene expression data**

Xu, Y., Chen, J., Lyu, A., Cheung, W. K. & Zhang, L., Nov 2022, In: *Briefings in Bioinformatics*. 23, 6, 10 p., bbac424.

**A lymphatic route for a hyperbranched heteroglycan from Radix Astragali to trigger immune responses after oral dosing**  
Zhang, Q., Li, L., Hao, S., Liu, M., Huo, C., Wu, J., Liu, H., Bao, W., Zheng, H., Li, Z., Cheng, H., Fung, H., Wong, T., Leung, P., Wang, S., Li, T., Zhang, G., Li, M., Zhao, Z., Jia, W., & 6 others Bian, Z., Mitchison, T., Zhang, J., Lyu, A., Han, Q. & Sun, H., 15 Sept 2022, In: Carbohydrate Polymers. 292, 12 p., 119653.

**ReDisX, a machine learning approach, rationalizes rheumatoid arthritis and coronary artery disease patients uniquely upon identifying subpopulation differentiation markers from their genomic data**  
Yip, H. F., Chowdhury, D., Wang, K., Liu, Y., Gao, Y., Lan, L., Zheng, C., Guan, D., Lam, K. F., Zhu, H., Tai, X. & Lu, A., Aug 2022, In: Frontiers in Medicine. 9, 26 p.

**Initial observations of Jinhua Qinggan Granules, a Chinese medicine, in the mitigation of hospitalization and mortality in high-risk elderly with COVID-19 infection: A retrospective study in an old age home in Hong Kong**  
Lin, T. P. H., Lau, E. M. C., Wan, K. H., Zhong, L., Leung, E., Ko, C. N., Lu, A., Shah, M. R., Bian, Z. & Lam, D. S. C., 27 Jul 2022, In: Frontiers in Medicine. 9, 5 p., 948149.

**Targeting loop3 of sclerostin preserves its cardiovascular protective action and promotes bone formation**  
Yu, Y., Wang, L., Ni, S., Li, D., Liu, J., Chu, H. Y., Zhang, N., Sun, M., Li, N., Ren, Q., Zhuo, Z., Zhong, C., Xie, D., Li, Y., Zhang, Z. K., Zhang, H., Li, M., Zhang, Z., Chen, L., Pan, X., & 5 others Xia, W., Zhang, S., Lu, A., Zhang, B. T. & Zhang, G., 22 Jul 2022, In: Nature Communications. 13, 16 p., 4241.

**Therapeutic aptamer targeting sclerostin loop3 for promoting bone formation without increasing cardiovascular risk in osteogenesis imperfecta mice**  
Wang, L., Yu, Y., Ni, S., Li, D., Liu, J., Xie, D., Chu, H. Y., Ren, Q., Zhong, C., Zhang, N., Li, N., Sun, M., Zhang, Z. K., Zhuo, Z., Zhang, H., Zhang, S., Li, M., Xia, W., Zhang, Z., Chen, L., & 5 others Shang, P., Pan, X., Lu, A., Zhang, B. T. & Zhang, G., 18 Jul 2022, In: Theranostics. 12, 13, p. 5645-5674 30 p.

**Regulation of age-associated insulin resistance by MT1-MMP-mediated cleavage of insulin receptor**  
Guo, X., Asthana, P., Gurung, S., Zhang, S., Wong, S. K. K., Fallah, S., Chow, C. F. W., Che, S., Zhai, L., Wang, Z., Ge, X., Jiang, Z., Wu, J., Zhang, Y., Wu, X., Xu, K., Lin, C. Y., Kwan, H. Y., Lyu, A., Zhou, Z., & 2 others Bian, Z. X. & Wong, H. L. X., 29 Jun 2022, In: Nature Communications. 13, 1, 10 p., 3749.

**Analysis of Hepatic Lipid Metabolism and Immune Function During the Development of Collagen-Induced Arthritis**  
Shi, Y., Shu, J., Ning, Z., Fan, D., Shu, H., Zhao, H., Li, L., Zhao, N., Lu, C., Lu, A. & He, X., 16 Jun 2022, In: Frontiers in Immunology. 13, 901697.

**Serum metabolomics analysis of deficiency pattern and excess pattern in patients with rheumatoid arthritis**  
Liu, B., Guo, H., Li, L., Geng, Q., Zhao, N., Tan, Y., Nie, Z., Ouyang, G., Lu, A. & Lu, C., 15 Jun 2022, In: Chinese Medicine (United Kingdom). 17, 1, 16 p., 71.

**Natural products for infectious microbes and diseases: an overview of sources, compounds, and chemical diversities**  
Luo, L., Yang, J., Wang, C., Wu, J., Li, Y., Zhang, X., Li, H., Zhang, H., Zhou, Y., Lu, A. & Chen, S., Jun 2022, In: Science China Life Sciences. 65, 6, p. 1123–1145 23 p.

**Hyaluronic Acid Hydrogels Hybridized With Au-Triptolide Nanoparticles for Intraarticular Targeted Multi-Therapy of Rheumatoid Arthritis**  
Li, C., Liu, R., Song, Y., Chen, Y., Zhu, D., Yu, L., Huang, Q., Zhang, Z., Xue, Z., Hua, Z., Lu, C., Lu, A. & Liu, Y., 27 May 2022, In: Frontiers in Pharmacology. 13, 849101.

**Pancreatic Cancer: Nucleic Acid Drug Discovery and Targeted Therapy**  
Dai, H., Abdullah, R., Wu, X., Li, F., Ma, Y., Lu, A. & Zhang, G., 16 May 2022, In: Frontiers in Cell and Developmental Biology. 10, 855474.

**Drug discovery of sclerostin inhibitors**  
Yu, S., Li, D., Zhang, N., Ni, S., Sun, M., Wang, L., Xiao, H., Liu, D., Liu, J., Yu, Y., Zhang, Z., Yeung, S. T. Y., Zhang, S., Lu, A., Zhang, Z., Zhang, B. & Zhang, G., May 2022, In: Acta Pharmaceutica Sinica B. 12, 5, p. 2150-2170 21 p.

**Machine learning to predict metabolic drug interactions related to cytochrome P450 isozymes**

Wang, N. N., Wang, X. G., Xiong, G. L., Yang, Z. Y., Lu, A. P., Chen, X., Liu, S., Hou, T. J. & Cao, D. S., 15 Apr 2022, In: Journal of Cheminformatics. 14, 1, 16 p., 23.

**ReDisX: a Continuous Max Flow-based framework to redefine the diagnosis of diseases based on identified patterns of genomic signatures**

Yip, H. F., Chowdhury, D., Wang, K., Liu, Y., Gao, Y., Lan, L., Zheng, C., Guan, D., Lam, K. F., Zhu, H., Tai, X. & Lu, A., 11 Apr 2022, Cold Spring Harbor Laboratory Press, 38 p.

**Frankincense vinegar-processing improves the absorption of boswellic acids by regulating bile acid metabolism**

Peng, S., Song, Z., Wang, C., Liang, D., Wan, X., Liu, Z., Lu, A. & Ning, Z., Apr 2022, In: Phytomedicine. 98, 153931.

**Pu-erh tea: A review of a healthful brew**

Jia, W., Rajani, C., Lv, A., Fan, T. P. & Zheng, X., Apr 2022, In: Journal of Traditional Chinese Medical Sciences. 9, 2, p. 95-99 5 p.

**The naturally occurring flavonoid nobiletin reverses methotrexate resistance via inhibition of P-glycoprotein synthesis**

Liu, R., Song, Y., Li, C., Zhang, Z., Xue, Z., Huang, Q., Yu, L., Zhu, D., Cao, Z., Lu, A., Lu, C. & Liu, Y., Apr 2022, In: Journal of Biological Chemistry. 298, 4, 101756.

**A Rapid Protocol for Direct Isolation of Osteoclast Lineage Cells from Mouse Bone Marrow**

Dang, L., Li, N., Wu, X., Li, D., Zhang, Z., Zhang, B. T., Lyu, A., Chen, L., Zhang, G. & Liu, J., 5 Mar 2022, In: Bio-protocol. 12, 5, e4338.

**Targeted Delivery of Chemotherapeutic Agents for Osteosarcoma Treatment**

Xie, D., Wang, Z., Li, J., Guo, D. A., Lu, A. & Liang, C., 4 Mar 2022, In: Frontiers in Oncology. 12, 843345.

**Featurization strategies for protein–ligand interactions and their applications in scoring function development**

Xiong, G., Shen, C., Yang, Z., Jiang, D., Liu, S., Lu, A., Chen, X., Hou, T. & Cao, D., Mar 2022, In: Wiley Interdisciplinary Reviews: Computational Molecular Science. 12, 2, e1567.

**An Integrative Pharmacology Model for Decoding the Underlying Therapeutic Mechanisms of Ermiao Powder for Rheumatoid Arthritis**

Wu, J., Wang, K., Liu, Q., Li, Y., Huang, Y., Liu, Y., Cai, J., Yin, C., Li, X., Yu, H., Meng, W., Wang, H., Lu, A., Li, Y. & Guan, D., 23 Feb 2022, In: Frontiers in Pharmacology. 13, 801350.

**Body weight regulation via MT1-MMP-mediated cleavage of GFRAL**

Chow, C. F. W., Guo, X., Asthana, P., Zhang, S., Wong, S. K. K., Fallah, S., Che, S., Gurung, S., Wang, Z., Lee, K. B., Ge, X., Yuan, S., Xu, H., Ip, J. P. K., Jiang, Z., Zhai, L., Wu, J., Zhang, Y., Mahato, A. K., Saarma, M., & 7 others Lin, C. Y., Kwan, H. Y., Huang, T., Lyu, A., Zhou, Z., Bian, Z. X. & Wong, H. L. X., 17 Feb 2022, In: Nature Metabolism. 4, 2, p. 203–212 10 p.

**Uncovering Hidden Mechanisms of Different Prescriptions Treatment for Osteoporosis via Novel Bioinformatics Model and Experiment Validation**

Liu, Y., Liu, Q., Yin, C., Li, Y., Wu, J., Chen, Q., Yu, H., Lu, A. & Guan, D., 8 Feb 2022, In: Frontiers in Cell and Developmental Biology. 10, 831894.

**Novel research synergized by Chinese medicine pattern classification in rheumatoid arthritis**

Zhang, C. & Lyu, A., Feb 2022, In: Clinical Rheumatology. 41, 2, p. 321-323 3 p.

**Targeting 11 $\beta$ -HSD1 in osteoblasts reduces fat mass and prevents bone loss in mice with high-fat diet-induced obesity (abstract)**

Zhong, C., Li, N., Li, D., Wang, S., Zhang, H., Sun, M., Wang, Z., Xie, D., Wu, X., Li, F., Yu, S., Ma, Y., Dai, H., Amu, G., Lyu, A., Ren, F., Liu, J. & Zhang, G., Feb 2022, In: Journal of Bone and Mineral Research. 37, Suppl 1, p. 105 1 p.

### **Hot and Cold Theory: A Personalized Medicine Approach**

Xiong, Y., Yan, L., Li, X., Duan, N., Lin, L., Wu, M., Lu, C. & Lyu, A., 11 Jan 2022, *Hot and Cold Theory: The Path Towards Personalized Medicine*. Yavari, M. (ed.). 1st ed. Springer Cham, p. 163-169 7 p. (Advances in Experimental Medicine and Biology; vol. 1343).

### **DDInter: An online drug-drug interaction database towards improving clinical decision-making and patient safety**

Xiong, G., Yang, Z., Yi, J., Wang, N., Wang, L., Zhu, H., Wu, C., Lu, A., Chen, X., Liu, S., Hou, T. & Cao, D., 7 Jan 2022, In: *Nucleic Acids Research*. 50, D1, p. D1200-D1207 8 p.

### **Cell death mechanisms induced by synergistic effects of halofuginone and artemisinin in colorectal cancer cells**

Gong, R. H., Yang, D. J., Kwan, H. Y., Lyu, A. P., Chen, G. Q. & Bian, Z. X., Jan 2022, In: *International Journal of Medical Sciences*. 19, 1, p. 175-185 11 p.

### **Poly (ADP-ribose) polymerase 1 (PARP1) inhibition promotes pulmonary metastasis of osteosarcoma by boosting ezrin phosphorylation**

Li, F., Wu, X., Fu, X., Liu, J., Song, W., Xiao, G. G., Lu, A. & Zhang, G., Jan 2022, In: *International Journal of Biological Sciences*. 18, 3, p. 1238-1253 16 p.

### **Toward Overcoming Treatment Failure in Rheumatoid Arthritis**

Wang, Z., Huang, J., Xie, D., He, D., Lu, A. & Liang, C., 23 Dec 2021, In: *Frontiers in Immunology*. 12, 34 p., 755844.

### **Detecting Critical Functional Ingredients Group and Mechanism of Xuebijing Injection in Treating Sepsis**

Wu, Q., Yin, C. H., Li, Y., Cai, J. Q., Yang, H. Y., Huang, Y. Y., Zheng, Y. X., Xiong, K., Yu, H. L., Lu, A. P., Wang, K. X., Guan, D. G. & Chen, Y. P., 6 Dec 2021, In: *Frontiers in Pharmacology*. 12, 30 p., 769190.

### **Hierarchical drug release designed Au @PDA-PEG-MTX NPs for targeted delivery to breast cancer with combined photothermal-chemotherapy**

Li, W., Cao, Z., Yu, L., Huang, Q., Zhu, D., Lu, C., Lu, A. & Liu, Y., Dec 2021, In: *Journal of Nanobiotechnology*. 19, 143.

### **A review of computational tools for generating metagenome-assembled genomes from metagenomic sequencing data**

YANG, C., CHOWDHURY, D., ZHANG, Z., CHEUNG, W. K. W., LYU, A., BIAN, Z. & ZHANG, L., 29 Nov 2021, In: *Computational and Structural Biotechnology Journal*. 19, p. 6301-6314 14 p.

### **A System Pharmacology Model for Decoding the Synergistic Mechanisms of Compound Kushen Injection in Treating Breast Cancer**

Li, Y., Wang, K., Chen, Y., Cai, J., Qin, X., Lu, A., Guan, D., Qin, G. & Chen, W., 16 Nov 2021, In: *Frontiers in Pharmacology*. 12, 18 p., 723147.

### **Semi-automated workflow for molecular pair analysis and QSAR-assisted transformation space expansion**

Yang, Z. Y., Fu, L., Lu, A. P., Liu, S., Hou, T. J. & Cao, D. S., 13 Nov 2021, In: *Journal of Cheminformatics*. 13, 1, 86.

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**Long-Acting Gel Composition Comprising Blood Sugar Reducing Active Component and Capable of Controlling and Releasing Liposome, and preparation Method Thereof (Granted)**

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**磷酸川芎嗪片联合甲氨蝶呤干预对胶原诱导关节炎大鼠炎症反应及血液流变的影响**

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#### **A reversible and selective luminescent probe for Cu<sup>2+</sup> detection based on a ruthenium(II) complex in aqueous solution**

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#### **Predicting and verifying outcome of Tripterygium wilfordii Hook F. based therapy in rheumatoid arthritis: From open to double-blinded randomized trial**

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#### **A Chinese Medicinal Formulation for Treating Inflammatory Bowel Disease and the Preparation Thereof (Granted)**

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**Modernization of traditional Chinese medicine**

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Zhu, G. Y., Wong, B. C. K., LYU, A., BIAN, Z., ZHANG, G., CHEN, H., Wong, Y. F., FONG, D. W. F. & YANG, Z., 2012, In: Chemical and Pharmaceutical Bulletin. 60, 8, p. 1029-1036 8 p.

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Yang, H., Yang, J., Wen, Z., Zha, Q., Nie, G., Huang, X., Zhang, C., LYU, A., Jiang, M. & Wang, X., 2012, In: Evidence-based Complementary and Alternative Medicine. 2012, 354145.

**Evidence-based ZHENG: A traditional chinese medicine syndrome**

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**Understanding the molecular mechanism of interventions in treating rheumatoid arthritis patients with corresponding traditional Chinese medicine patterns based on bioinformatics approach**

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**中药上市后临床再评价设计方法与实施**

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宇文亚, 王永炎, 王燕平, 王丽颖, 史楠楠, 吕爱平 & 韩学杰, Oct 2011, In: 中国中西医结合杂志. 31, 10, p. 1419-1421 3 p.

**循证医学时代类风湿关节炎的中医药临床研究**

张弛, 吕爱平 & 姜淼, Sept 2011, In: 中国中西医结合杂志. 31, 9, p. 1161-1163 3 p.

**中医证候分类和复杂干预措施是影响中医临床疗效评价的核心问题**

吕爱平, 赵静 & 姜淼, Apr 2011, In: 中国中西医结合杂志. 31, 4, p. 449-451 3 p.

**From Chinese version of integrative medicine to globalized integrative medicine: Impression on the 3rd World Integrative Medicine Congress**

Chen, K. J. & LYU, A., Dec 2007, In: Chinese Journal of Integrative Medicine. 13, 4, p. 244-245 2 p.

**重视类风湿关节炎治疗的中医证候分类研究**

吕爱平, Jul 2007, In: 中国中西医结合杂志. 27, 7, p. 587-588 2 p.

**中医证候研究要引入客观参照系**

吕爱平, Apr 2002, In: 中国中西医结合杂志. 22, 4, p. 249-254 6 p.

## Activities

**Hong Kong Science and Technology Park (External organisation)**

Aiping LYU (Committee/panel/advisory board member)

2023 → 2025

**RGC-Research Grants Council, HKSAR (External organisation)**

Aiping LYU (General member)

2023 → ...

**Alleviating Microgravity-induced Bone Loss in Astronauts During Deep Space Exploration**

Yuanyuan YU (Participant), Ge ZHANG (Participant) & Aiping LYU (Organiser)

22 Oct 2022 → 30 Oct 2022

**Academia Europaea (External organisation)**

Aiping LYU (General member)

2022 → ...

**OTC Naturals Advisory Board (External organisation)**

Aiping LYU (President)

2022 → ...

**國家第十二屆藥典委員會 (External organisation)**

Aiping LYU (Committee/panel/advisory board member)

2022 → ...

**Board of Directors, the Operator of the Chinese Medicine Hospital (CMH). (External organisation)**

Aiping LYU (Board of directors)

2021 → ...

**Science and Technology Development Fund (FDCT) (External organisation)**

Aiping LYU (Committee/panel/advisory board member)

2021 → ...

**Peking Union Medical College Press (Publisher)**

Aiping LYU (Editor in chief)

2020

**Good Practice of Traditional Chinese Medicine (TCM) Research Association (External organisation)**

Aiping LYU (Board of directors)

2019 → ...

**Journal of Traditional Chinese Medical Sciences (Journal)**

Aiping LYU (Member of editorial board)

2019 → ...

**Clinical and Experimental Immunology (Journal)**

Aiping LYU (Reviewer)

2018 → ...

**Frontiers in Pharmacology (Journal)**

Aiping LYU (Associate editor)

2018 → ...

**The Journal of World Chinese Medicine (Journal)**

Aiping LYU (Member of editorial board)

2018 → 2023

**Department of Health (External organisation)**

Aiping LYU (Committee/panel/advisory board member)

2017 → 2023

**FHB-Food and Health Bureau, HKSAR (External organisation)**

Aiping LYU (Committee/panel/advisory board member)

2017 → 2022

**FH Joanneum University of Applied Sciences (External organisation)**

Aiping LYU (Committee/panel/advisory board member)

2017 → ...

**Guangdong-Hong Kong Macao Greater Bay Area International Research Platform for Aptamer-Based Translational Medicine and Drug Discovery (External organisation)**

Yuanyuan YU (Committee/panel/advisory board member), Aiping LYU (Director/non-executive director), Ge ZHANG (Director/non-executive director), Jin LIU (Working group member), Fangfei LI (Working group member) & Yuan MA (Working group member)

2017 → ...

**Hong Kong Association for Integration of Chinese-Western Medicine (External organisation)**

Aiping LYU (Others)

2017 → ...

**Journal of Biomedical Science (Journal)**

Aiping LYU (Reviewer)

2016 → ...

**Evidence-based Complementary and Alternative Medicine (Journal)**

Aiping LYU (Reviewer)

2015 → ...

**Journal of Ethnopharmacology (Journal)**

Aiping LYU (Reviewer)

2015 → ...

**World Journal of Rheumatology (Journal)**

Aiping LYU (Editor in chief)

2015 → ...



**Chinese Journal of Integrative Medicine (Journal)**

Aiping LYU (Other)  
2014 → ...

**FHB-Food and Health Bureau, HKSAR (External organisation)**

Aiping LYU (Committee/panel/advisory board member)  
2013 → ...

**FHB-Food and Health Bureau, HKSAR (External organisation)**

Aiping LYU (Committee/panel/advisory board member)  
2013 → ...

**RGC-Research Grants Council, HKSAR (External organisation)**

Aiping LYU (Committee/panel/advisory board member)  
2013 → 2023

**Arthritis Research and Therapy (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Briefings in Bioinformatics (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Clinical Biochemistry (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Clinical Rheumatology (Journal)**

Aiping LYU (Member of editorial board)  
2012 → ...

**Integrative Biology (United Kingdom) (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Journal of Ethnopharmacology (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Journal of Proteome Research (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Planta Medica (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**PLoS ONE (Journal)**

Aiping LYU (Reviewer)  
2012 → ...

**Proteomics (Journal)**  
Aiping LYU (Reviewer)  
2012 → ...

**Trends in Pharmacological Sciences (Journal)**  
Aiping LYU (Reviewer)  
2012 → ...

**Traditional Chinese medicine - ISO/TC 249 (External organisation)**  
Aiping LYU (President)  
2009 → ...

## **Prizes**

**1st Prize of China Standard Innovation Contribution Award 2020年中国标准创新贡献奖 - 一等奖**  
LYU, Aiping (Recipient), 2020

**1st Prize of Science and Technology Progress of China Association of Traditional Chinese Medicine (TCM)**  
LYU, Aiping (Recipient), 2019

**1st Prize of Shanghai Science and Technology Progress Award 上海市科学技术奖 - 一等奖**  
LYU, Aiping (Recipient), 2020

**Chair Professor and Deputy Director**  
LYU, Aiping (Recipient), 2013

**Chief Executive's Commendation for Community Service**  
LYU, Aiping (Recipient), 2018

**Outstanding Contributor Award for Standardization in China**  
LYU, Aiping (Recipient), 2014

**Outstanding Contributor Award, Hong Kong Chinese Medicines Association**  
LYU, Aiping (Recipient), 2017

**Outstanding Scientist Award**  
LYU, Aiping (Recipient), 2012

**Scientific Progress Award**  
LYU, Aiping (Recipient), 2016

**Scientific Progress Award**  
LYU, Aiping (Recipient), 2015

**Scientific Progress Award**  
LYU, Aiping (Recipient), 2010

**Scientific Progress Award**  
LYU, Aiping (Recipient), 2012

**Scientific Progress Award**  
LYU, Aiping (Recipient), 2010

**Scientific Progress Award**

LYU, Aiping (Recipient), 2016

**Scientific Progress Award**

LYU, Aiping (Recipient), 2015

**Special Invited Professor**

LYU, Aiping (Recipient), 2014

**The 1st Prize of Science and Technology Progress of Ministry of Education**

LYU, Aiping (Recipient), 2019

**Press/Media****From Molecular Target to Aptamer Drug Discovery towards US-FDA Orphan Drug Designation**

Yuanyuan YU, Ge ZHANG, Aiping LYU & Luyao WANG

19/12/22 → 20/12/22

4 Media contributions

**Uncover vast potential of integrative medicine by improving trials, quality control of herbal formulas**

Aiping LYU

5/11/21

1 Media contribution

**Projects****A mechanistic study on the role of combinatorial gene regulation in controlling gene expression noise through direct observation on the transcriptional activities in single cells**

ZHU, H. & LYU, A.

1/10/18 → 30/09/21

**A Novel Nucleolin Aptamer-Maytansine Conjugate for Chemo-resistant Ovarian Cancer**

LYU, A.

1/01/20 → 31/12/22

**A novel TCM-based network pharmacology framework to human diseases and drug-disease relationship**

TIAN, L., LYU, A., TANG, L. H., Zhang, Q., Zhong, L., Yang, X. & YANG, Z.

1/06/23 → 31/05/26

**Aptamer: Molecular Insight & Translational Theranostics 适配子：分子作用機制和用於診療的轉化研究**

LYU, A.

**Aptamer: Molecular Insight & Translational Therapeutics**

LYU, A., ZHANG, G., REN, K., YU, Y., LIANG, C., LI, F. & LU, J.

1/01/21 → 31/12/25

**Construction of a Traditional Chinese Medicine Diagnostic and Treatment Assistance System for Long COVID Based on Big Data and Artificial Intelligence**

TIAN, L., Zhong, L., TANG, L. H., LYU, A., LIU, J., ZHOU, C. & Lam, P. Y.

1/11/23 → 31/10/25

**Development of combination therapy using a mCRP aptamer and Leflunomide for precision medicine-based rheumatoid arthritis treatment**

LYU, A.

1/01/23 → ...

**Does aberrantly overexpressed CKIP-1 suppress osteoblast-mediated articular bone repair in inflammatory arthritis ? A collagen-induced non-human primate arthritis model**

LYU, A.

1/01/17 → 30/06/19

**Great Bay Area Immune Chinese Medicine Lab**

LYU, A.

1/12/20 → 1/12/23

**Molecular mechanisms of obesity with Chinese medicine pattern of phlegm-dampness and its changes on hypertension**

LYU, A.

**Research on Efficacy and Mechanism of Pien Tze Huang in Multiple Sclerosis for New Drug Discovery**

LYU, A.

**Toward cell-targeted therapeutics in osteosarcoma: A smart Triptolide-aptamer conjugate**

LYU, A.

1/01/15 → 30/09/21

**Toward targeted therapy in advanced pancreatic cancer: A smart Triptolide-Nucleolin aptamer conjugate**

LYU, A.

1/10/14 → 30/09/16

**Toward the next generation of smart anti-tumor drugs: a highly water-soluble nucleolin aptamer-paclitaxel conjugate with a serum-stable linker for tumor-specific targeting in ovarian cancer**

LYU, A.

1/01/19 → 30/06/22

**Understanding the molecular mechanism in failure of osteoblast-mediated repair for articular bone erosion during progressive rheumatoid arthritis: Role of casein kinase-2 interacting protein-1 in controlling osteoblast function**

LYU, A.

1/03/14 → 31/08/16