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..... XUE Ming, GONG Li – ke, WANG Shu – ting, *et al* (1948)

Investigation and analysis of health education on reducing iodine deficiency disorders in Luohe

..... RU Hui – ping, REN San – qiu, LIU Rui – ping, *et al* (1952)

Bacterial Resistance Research

Study on the combined effects of nano silver and anti tuberculosis drugs for drug resistance *Mycobacterium tuberculosis*

..... WANG Chun – hua, MU Cheng, WANG Zhi – rui, *et al* (1956)

Analysis of fungal infection status and drug resistance in Kashi

..... ZHOU Hui – fang, JIANG Xiao – li, MAO Neng – jian (1960)

Fungal infection inspection and drug resistance analysis in 312 men with nongonococcal urethritis

..... KANG Xiao – hui (1963)

Study on the β – lactamases resistant genes of *Pseudomonas aeruginosa* in four hospitals of Harbin

..... GAO Chun – bo, SU Li – ju, CHAI Miao, *et al* (1965)

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