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SUPLEMENTARY

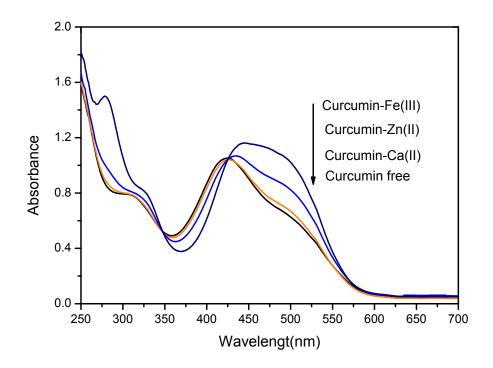


Fig s1. UV-Vis spectra of the free ligand and the complexes in aqueous solutions obtained after syntheses

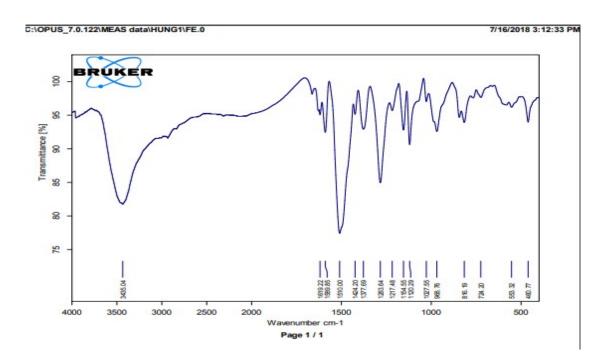
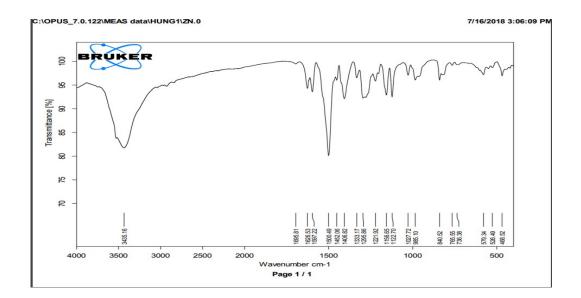
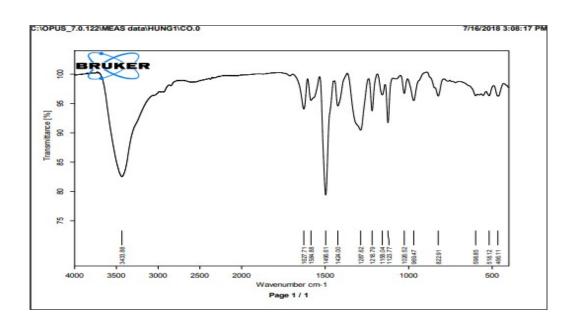


Fig S2. IR spectra of curcumin-Fe(III) (a), curcumin-Zn(II) (b), and curcumin-Ca (II) complex (c)





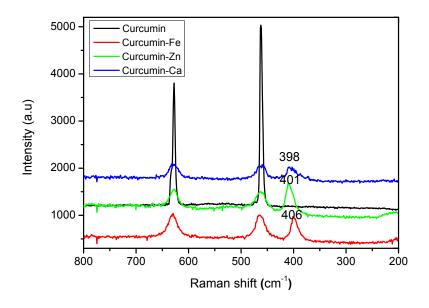


Fig s3. Raman spectra of curcumin and its complexes



Fig S4a. Some of mice in the treatmen



Fig S4b. The burn on the back of rat

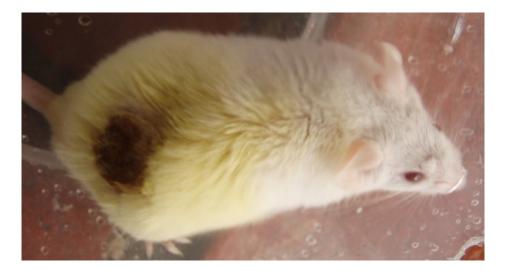


Fig S4c. The burn after 3 day was treated by curcumin

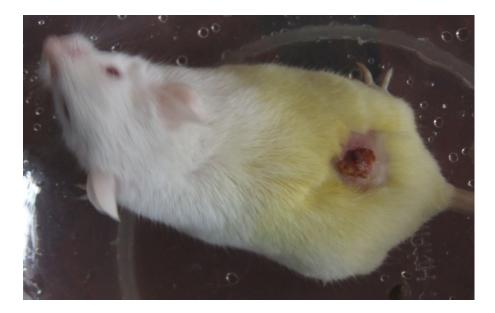


Fig S4d. The burn after 6 day was treated by curcumin



Fig S4e. The burn after 12 day was treated by curcumin

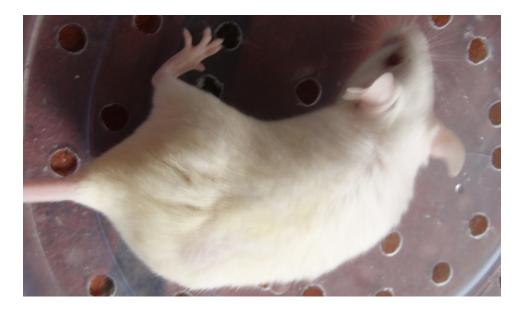


Fig S4f. The burn after 18 day was treated by curcumin



Fig S5a. The burn after 3 day was treated by curcumin-Ca(II)

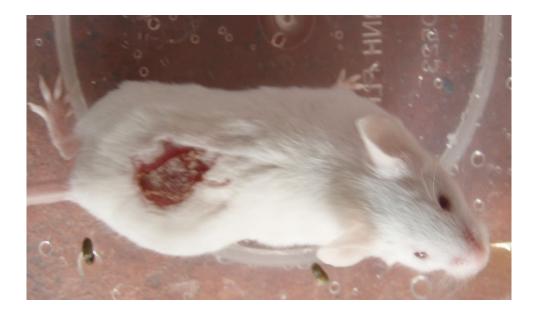


Fig S5b. The burn after 6 day was treated by curcumin-Ca(II)



Fig S5c. The burn after 9 day was treated by curcumin-Ca(II)

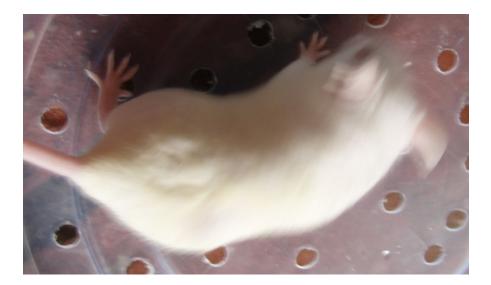


Fig S5d. The burn after 12 day was treated by curcumin-Ca(II)

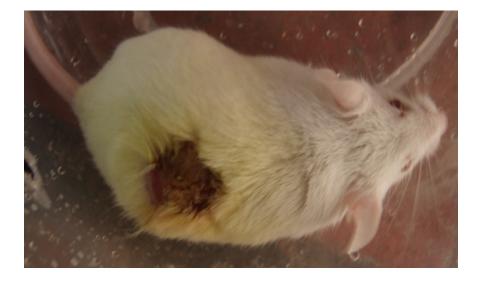


Fig S6a. The burn after 3 day was treated by curcumin-Zn(II)

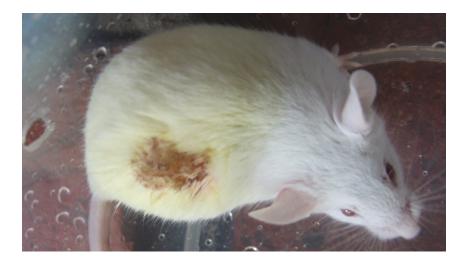


Fig S6b. The burn after 9 day was treated by curcumin-Zn(II)

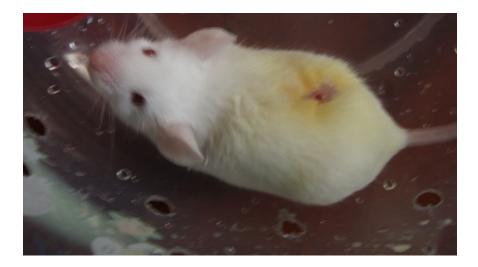


Fig S6c. The burn after 15 day was treated by curcumin-Zn(II)



Fig S6c. The burn after 18 day was treated by curcumin-Zn(II)

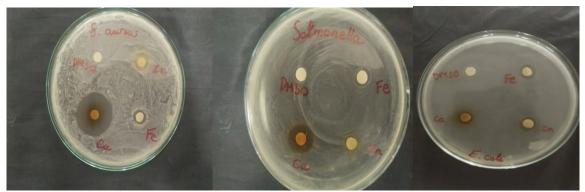


Fig S7: Antimicrobial activity of curcumin complexes against Salmonella, S.aureus, and E.coli