The newly synthesized oleo-benzimidazole derivatives (I-aa to I-cd'), and also isolated natural hydroxy fatty esters were screened for their antibacterial and antifungal activities at concentration of 1000 \( \mu \) gram/ml. The compounds were tested against *Escherichia coli, Bacillus cirroflagellosus, Pseudomonas putida* and *Staphylococcus aureus* for antibacterial activity. The antifungal activity was carried out with *Candida albicans, Aspergillus niger, Penicillium notatum* and *Sclerotium rolfsii*. The antimicrobial activities of the compounds were compared with tetracycline at the same concentration.