Prevalence and molecular analyses of extended spectrum -lactamase producing uropathogens among pregnant women, Jigawa state, Nigeria

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The Extended Spectrum -Lactamase (ESBL)-producing uropathogens are of serious clinical concern worldwide. They are plasmid-mediated enzymes that are capable of hydrolysing virtually all -lactam antibiotics including oxyimino-cephalosporins and monobactams. In this study, the uropathogens and risk factors for Urinary Tract Infections (UTI), their antibiotic susceptib ...

Magnetic hydrogel for the rapid elimination of environmental harmful ions

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We have newly devised konjac glucomannan hydrogel pellets containing micrometer-sized iron particles and hydrotalcite powder [1], by which we can efficiently remove environmental harmful ions such as selenium, boron, fluorine and arsenic. Glucomannan hydrogel forms three-dimensional network which can stably immobilize these materials Figure 1. Iron Magnetic hydrogel ( ...