

Isak Demirel

Postdoctoral Research Fellow

starting: March 2015



My PhD studies, which I finished May 2014 were focused on characterising the host-pathogen interaction of uropathogenic *Escherichia coli* (UPEC) during a urinary tract infection. During the latter part of my studies, the aim was to investigate if the immune response evoked by extended spectrum beta lactamase (ESBL) isolates differs from non-ESBL-producing uropathogenic *E. coli*. My research aimed to characterize the virulence patterns of ESBL isolates and to identify new novel treatment options to cope with the globally increased antibiotic resistance.

In 2015, I was awarded a position as a Postdoctoral Research Fellow in iRiSC - Inflammatory Response and Infection Susceptibility Centre at Örebro University. I will continue to study host-pathogen interactions during my postdoc with focus on UPECs ability to induce/subvert the inflammasomes.