

## **Abstract**

The importance of *V. cholerae* porin OmpU in pathogenesis is highlighted by the fact that it confers resistance against bile acids and certain host anti-microbial peptides [31]. These functions help the bacteria for well survival in the gut. Our laboratory has been working on probing the host immunomodulatory effects of OmpU. Towards, these aim our laboratory has some observations with purified OmpU. As OmpU is an outer membrane protein to put the study on physiological basis, our laboratory is interested whether natural vesicle can be one of the means used by the bacteria for Omp U-mediated cell modulation. My study focussed on whether OmpU is secreted in naturally secreted vesicles and if it is secreted then can it affect host cell function.