

Research Projects:

1. Vectors comparison for increased protein expression in *E. coli*
2. Cloning and expression of recombinant Stx and its subunits to study of intracellular signaling pathways
3. Study of recombinant Shiga toxin and its subunits mechanism in induction of apoptosis in U937 and HeLa cell Lines
4. MOLECULAR DIAGNOSIS OF BREAST CANCER
5. Molecular detection of *CK19*, *Her2/neu*, and Mammoglobin in breast cancer
6. Investigation on relationship of molecular markers expression and Clinico-pathology of breast cancer patients
7. Study of cytotoxicity effect of shiga toxin A subunit, expressed in baculovirus system
8. Construction of oligonucleotide aptamers for detection of Stx producer and O157 *E. coli* by using oligonucleotides library
9. Hemophilus influenza protein D and Por A N. Meningitidis as a vaccine candidate
10. Hemophilus influenza protein E and OMV N. Meningitidis as a vaccine candidate
11. Construction, expression and evaluation of recombinant hybrid protein FimH.Mrph as a new vaccine candidate against urinary tract infection caused by uropathogenic *E. coli* and proteus mirabilis