

# Research projects 2016

## Bacteriology

1	Comparison study of structure, function, and changes of extended-spectrum beta- lactamase genes in Shigella isolate by using bioinformatics tools
2	Bacterial etiological agent causing gastroenteritis outbreak in Sepidan, Iran
3	Disigning the antibiotic treatment protocol offebrilpatientswith malignancy admittedin Amir oncology hospital, according to their isolated microorganisms from Dec 2015 to Apr 2016
4	Surveillance of antibiotic resistance in hospital affiliated to Shiraz university of medical science
5	Evaluation of staphylococcus colonization in children and determining their antibiotic-resistance profiles
6	Detection and identification of Salmonella and Escherichia coli strains producing ESBL and MBL enzymes by phenotypic methods, and study of the presence of resistance genes TEM and SHV betalactamases CTX-M 1 by PCR isolated from stool samples of patients with contaminated food
7	Epidemiological study of pathogenic E.coli, Norovirus and Cryptosporidium parvum genotypes in raw foods ( poultry and vegetables), water and stool of diarrheic patients in Iran. (National integrated surveillance study-phase I)

## Virology

1	Bioinformatics analysis of 3D structure, immunogenic properties, and amino acid changes of HCV virus core protein in HCV infected patients samples
2	The assessment of viral meningitis agent(s) in recent outbreak occurred in Yasuj using Taq-Man Real-Time PCR
3	A comparative study of influenza, respiratory syncytial virus and humanmetapneumovirus in leukemic patient with and without respiratory sign and symptoms by PCR and Rapid test in Amir oncology hospital during a period of : September 2015 to February 2016
4	Bioinformatics analysis of domain 1 of Iranian HCV-core protein, 2006-2015, to study the prevalence of effective mutations in resistance to treatment, immunologic properties, and 3D structure analysis
5	Construction of Aden-Associated virus hybrid vector expressing herpes simplex thymidine kinase gene for targeted control of EBV-associated malignancy in vitro

6	Simultaneous detection of pan-entroviruses, enterovirus 71 and coxsackievirus a16 in HFMD affected patients using triplex quantitative PCR assay
7	Evaluation of TNF- $\alpha$ and IL-10 polymorphisms in chronic HCV infected individuals
8	Quantitative evaluation of beclin gene expression and its correlation with IFN gene expression in HCV mono- and HCV/HIV co-infected patients
9	Evaluation of immune response to vaccines in immunocompromised patients ( Leukemia, transplant patients and HIV)
10	Determination of relationship between hepatitis C NS5A binding domain mutations and treatment resistance in hepatitis C virus infection
11	Prevalence of hepatitis C virus variants resistant to NS3 protease inhibitors in hepatitis patients
<b>Mycology</b>	
1	Molecular identification of environmental and pathogen aspergillus flavus and aspergillus fumigatus isolates by RFLP and correlation of gliotoxin and catalase production and genes with virulence species
2	Study of swimming pool contamination to giardia lamblia entamoeba histolytica, cryptosporidium microsporidia
<b>Parasitology</b>	
1	Comparative quantitative evaluation of the genomic DNA of Toxoplasma gondii in seropositive and seronegative pregnant woman
2	Prevalence of HLH ( hemophagocytic lymphohistiocytosis) in patients with visceral leishmaniasis in three years