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|  | **program Information** | |
| **NO.** |  | |
| **Program Type** | Degree Based …………….....  Non degree-Based ……..…. | □  □ |
| **Level of Study** | Undergraduate ………..……  Master …………………..……...  PhD ………………………..…….  Post Doc …………………..…..  Specialty ………………..…….  Subspecialty …………………  Fellowship ……………..……..  Short term Course ………… | □  □  □  □  □  □ |
| **School** | School of Medicine, Mashhad University of Medical Sciences | |
| **Department** | New Sciences and Technologies | |
| **Major/ Name of Program** | Post-doc or Fellowship in Nutrigenomics and Nutrigenetics | |
| **Keyword(3 Words)** | Nutrigenomics, Micro/macro-nutrition, Diet pattern | |
| **Language Requirement** | English | |
| **Admission Requirement** | PhD degree | |
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| **Description (500 words)** | **General information about Nutrigenomics:** Nutrigenomics combines the study of nutrition and genetics to discover different ways people respond to food based on their genetic information and acknowledging an era of personalized nutrition.  The aim of the current proposed project is to explore the genetic backgrounds of obese subjects versus overweight and normal group with respect to the pattern of their diet and micro/macro-nutrition. | |
| **Complete Description** | In the present study, we will perform systematic review and meta-analysis to identify candidate genetic markers associated with obesity. To achieve this goal, we will use our cohort subjects (from available data of dietary of MASHAD study program, which is around 8000 subjects) to investigate our hypothesis. Among the genetic markers, we will also consider an interesting locus, 9p21, which has recently been identified from genome wide association studies published by Nature Medicine to test and evaluate this marker. We will also evaluate the association of micro/macro-nutrition factors with obesity and our genetic marker. Then, we will use new statistical methods such as data mining tools. | |
| **Program Detail** | To get more information about this project, please contact the group leader and get more information from our previous recent publications  *Kouzehgaran S, …..Ghayour-Mobarhan M, Khajedaluee M. Comparison of Novel Coronary Artery Disease Risk Factors between Obese and Normal Adolescent. Iran J Med Sci. 2015 Jul;40(4):322-7.*  *Mirhafez SR, Avan A, …..Ghayour-Mobarhan M. Association of tumor necrosis factor-α promoter G-308A gene polymorphism with increased triglyceride level of subjects with metabolic syndrome.Gene. 2015 Aug 15;568(1):81-4.*  *Mirhafez SR, Pasdar A, Avan A, Esmaily H, Moezzi A, Mohebati M, Meshkat Z, Mehrad-Majd H, Eslami S, Rahimi HR, Ghazavi H, Ferns GA, Ghayour-Mobarhan M. Cytokine and growth factor profiling in patients with the metabolic syndrome.Br J Nutr. 2015 Jun 28;113(12):1911-9.*  <http://www.ncbi.nlm.nih.gov/pubmed/?term=ghayour+mobarhan+M%2C+nutrition> | |