The Mucosal Immunology and Biology Research Center (MIBRC) at MassGeneral Hospital for Children is seeking a PhD at the Instructor/Assistant Professor level with expertise in the computational modeling of genome-scale metabolic networks.

He/she should also have experience in bioinformatics related to human microbiome research. Skills in a variety of methodologies applicable to this line of research is required. Developing new algorithms for designing communities of cross-feeding microbes that impact microbial community is highly desirable. Additionally, it is also desirable to have expertise in analysis of the complex balance of costs and benefits in metabolism-mediated interactions through the combination of genome-scale stoichiometric models of metabolism with other algorithm theories. Finally, expertise in simulations and testing of co-cultures of soil and gut-associated microbes to establish possible impact of environment on gut microbiome composition and function is required. Requirements for this job position include teaching students and GI fellows an average of 5 hours per week in one-to-one training and small class lectures.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions or any other characteristic protected by law.

Interested candidates should submit a curriculum vitae and a letter of interest to:

Alessio Fasano, MD
Division Chief of Pediatric Gastroenterology and Nutrition
MassGeneral Hospital for Children
55 Fruit St. – GRJ-14
Boston, MA 02114