

## **Motivation Letter**

Personalized medicine will be at the forefront as a new era of medical care approaches. Advances in a number of molecular profiling technologies, such as genetic testing, proteomic profiling, metabolomic analysis, and molecular medicine approaches, may allow physicians to tailor medical care to each individual patient. Therefore, in theory, all patients should benefit from the highly optimized and individualized treatment protocols of the future. The focus of personalized medicine is also on prevention and prediction of disease or outcome, rather than merely reacting to the presence of it. With the numerous new technologies used in contemporary fundamental medical research (Genome-Wide Association Studies, Proteomic, Transcriptomic and Metabolomic analyses), a vast amount of raw data has emerged. As a result, there is an essential role for developing novel bioinformatics and biostatistics approaches, for interpretation of this data.

I am strongly interested in preventive, predictive and personalized medicine, as well as in the field of bioinformatics. I am currently involved in real neurological case studies (with brain vascular diseases specialization and brain tumors), and also in other fields, including research of liver vascular network problems.

As a member of EPMA – YPS, I am highly motivated to share the ideas of our association, as well as of personalized medicine, among the medical students and other young professionals across the Czech Republic. The novel PPPM educational activities in our country are in progress and will be improving in the future. I will try my best to represent EPMA – YPS in the Czech Republic.

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July 2012