

Biomedical Informatics and the Future of Medicine

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Abstract. One year ago Mayo Clinic decided to significantly invest in three newly-created centers: the Center for Individualized Medicine (CIM), the Center for the Science of Healthcare Delivery (CSHD) and the Center for Regenerative Medicine (CRM). The development of these three centers has been prioritized by Mayo as a strategic investment into the future of the Clinic and the future of medicine. Biomedical informatics at Mayo Clinic, including the four fields of Medical Information, Bioinformatics, Biostatistics and Medical Imaging, will play a significant role in the successful implementation of these three centers. As one of the Program Directors of the Center for Individualized Medicine, I will discuss the contribution of biomedical informatics to the future success of this center. I will provide an overview of the systems that we have developed and will describe how these systems leverage our biomedical informatics expertise to accelerate translational research activities, enhance medical practice and support the deployment of individualized medicine at Mayo Clinic.