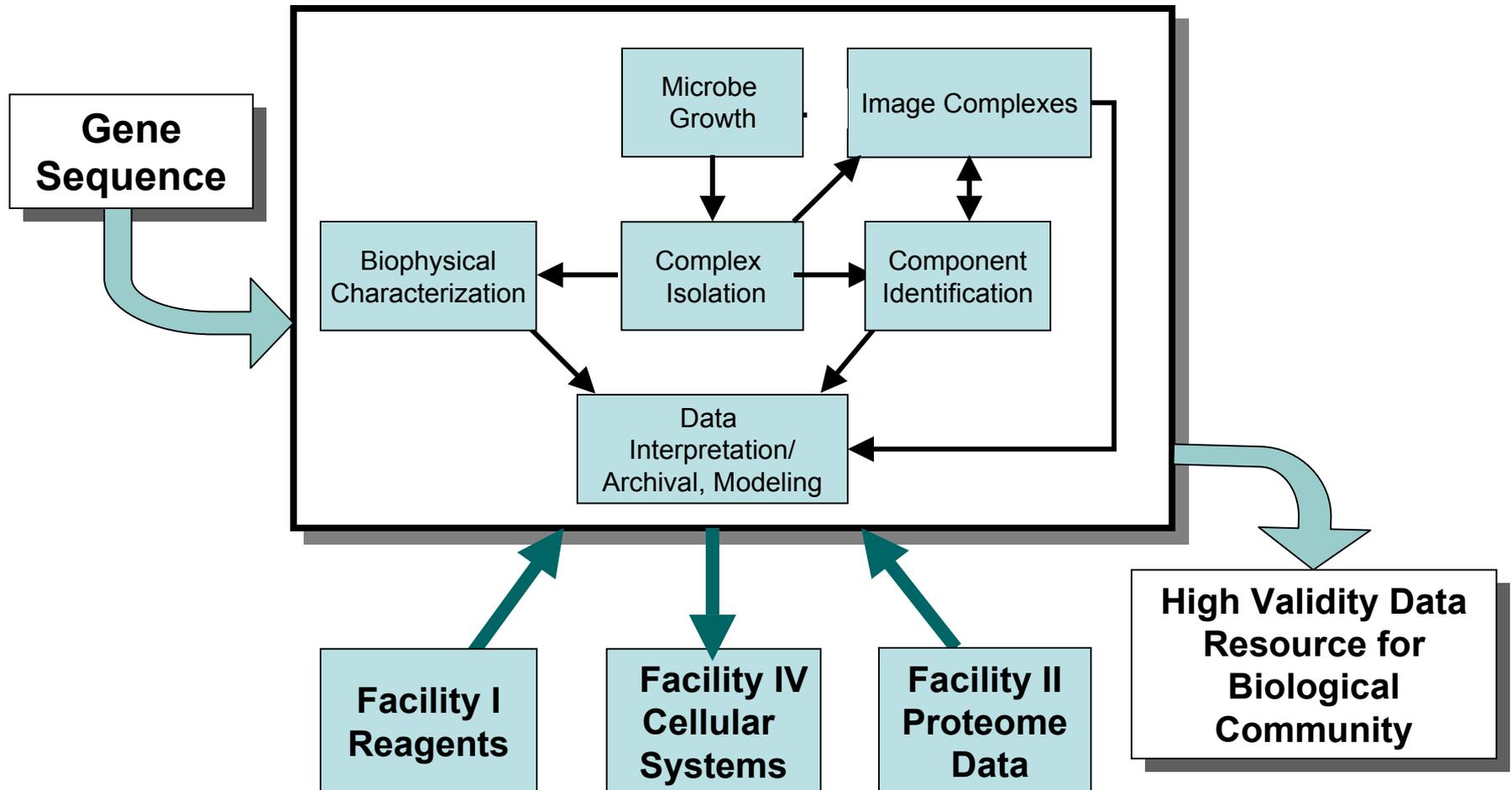


# Facility III: Characterization and Imaging of Molecular Machines



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Facility III will isolate, identify and characterize from microbes thousands of molecular machines and develop the ability to image component proteins within complexes and to validate the presence of the complexes within cells. Facility III requires the proteins and reagents from Facility I for the isolation, quantitation, and imaging of protein complexes. Facility II will provide baseline proteomics data for optimizing conditions for production of machines to be analyzed in Facility III. The detailed structural and biophysical characterization of the complete repertoire of a cell's molecular machines, provided by Facility III, is critical to understanding and modeling cellular systems in Facility IV.