Now that close-to-atomic resolution can be reached almost routinely in many cases, single-particle cryo-EM is about to fill a large gap in the structural database, and this will have a significant impact on the war chest of Molecular Medicine. In terms of future developments I’d like to single out two promising directions: time-resolved cryo-EM (the ability to image short-lived states), and mapping of a continuum of states of a molecule (especially molecular machines) in a system in equilibrium.