OBJECTIVES:

O1. Target-oriented screening for biologically-active compounds used in therapy of BD.
O2. Complete physico-chemical characterization of selected bioactive molecules used in brain diseases therapy by thin layer chromatography, melting interval, and spectroscopic techniques, followed by the analysis of thermal behavior and kinetic evaluation for thermal degradation.
O3. Preformulation studies of selected APIs with various common pharmaceutical excipients.
O4. Screening for obtaining new polymorphs of selected APIs by solvation and crystallization.
O5. Characterization of the new crystal forms.