Work Plan 2
Duration: 12 months

Activity: Build the Gene Regulation Network involving the genes determined in plan 2.
Duration: 1\textsuperscript{st} to 2\textsuperscript{nd} month

Activity: Validate the network constructed from data on behaviors and interactions described in the literature.
Duration: 3\textsuperscript{rd} and 4\textsuperscript{th} months

Activity: Determination of the stationary states of the validated network to determine the constraints that must be respected between configurations to guarantee the multiplicity of stationary states. Strategy: null eigenvalue analysis and disability theory.
Duration: 5\textsuperscript{th} and 6\textsuperscript{th} months

Activity: Calibration of gene regulation network parameters based on gene expression data and quantitative results from the literature.
Duration: 7\textsuperscript{th} and 8\textsuperscript{th} months

Activity: Deterministic simulations to characterize the attractors corresponding to the luminal, HER+ and triple negative subtypes.
Duration: 9\textsuperscript{th} and 10\textsuperscript{th} months

Activity: Stochastic simulations to determine transition probabilities between basins of attraction, which correspond to disease progression between luminal, HER+ and triple negative breakthroughs.
Duration: 11\textsuperscript{th} and 12\textsuperscript{th} months

Activity: Publication of the results obtained.
Duration: 11\textsuperscript{th} and 12\textsuperscript{th} months