Speaker: Jadwiga Bienkowska

Title: ExpertMIX stratification of molecular profiles and clinical phenotypes

Abstract:
The disease course and disease severity in patients with relapsing multiple sclerosis (MS) is highly heterogeneous. We developed a new method to investigate patient heterogeneity in the joint space of molecular and clinical disease severity profiles. We applied this method to a cohort of a cohort of 106 patients with secondary progressive MS (SPMS). We identified two subgroups characterized by differential expression of lymphocytic pathways and different molecular signatures correlating with the clinical phonotype: MS Severity Score. Preliminary analysis of RRMS patient cohort also identified 2 molecular subgroups characterized by differential expression of similar lymphocytic pathways. The two RRMS sub-groups are characterized by different disease progression over two years.