Title: Rainfall Plots to Detect Patterns of Somatic Cell Mutations

Abstract:

Somatic mutations can lead to different types of cancers. Rainfall plots are an effective way to map the genomic position of these somatic cell mutations and the genomic distance between the mutations. Hypermutation in the clustered regions, known as kataegis, indicate possible non-random mutation. This can provide information on the potential causes and mechanisms of different cancer types. We present an R package, RainfallPlots, used to map these patterns of somatic cell mutations.