## iClusterPlus: integrative clustering of multiple genomic data sets

Qianxing Mo<sup>1</sup> and Ronglai Shen<sup>2</sup>

October 26, 2021

<sup>1</sup>Department of Biostatistics & Bioinformatics H. Lee Moffitt Cancer Center & Research Institute qianxing.mo@moffitt.org

<sup>2</sup>Deparment of Epidemiology and Biostatistics Memorial Sloan-Kettering Cancer Center shenr@mskcc.org

## Contents

1 Introduction 1

## 1 Introduction

Programs iClusterPlus and iClusterBayes are developed for integrative clustering analysis of multi-type genomic data, which are significant extension of the iCluster program (Shen, Olshen and Ladanyi, 2009). Multi-type genomic data arise from the experiments where biological samples (e.g., tumor samples) are analyzed by multiple techniques, for instance, array comparative genomic hybridization (aCGH), gene expression microarray, RNA-seq and DNA-seq, and so on. Examples of these data can be obtained from the Cancer Genome Atlas (TCGA) (http://cancergenome.nih.gov/).

The iClusterPlus User's guide can be obtained from the Bioconductor web page. If you are using Unix/Linux, you can get the manual by typing the following code in R Console.

In addition, a simulation was performed to test the package. For details, please see the R code in the iClusterPlus/inst/unitTests/ folder.