# How to use breakpointR

David Porubsky\*

August 22, 2016

## **Contents**

1	Introduction	2
2	Quickstart	2
3	Session Info	2

 $<sup>{\</sup>bf *d.porubsky@umcg.nl}$ 

How to use breakpointR 2

#### 1 Introduction

TODO:DAVID

### 2 Quickstart

The main function of this package is called breakpointer and performs all the necessary steps to get from aligned reads to interpretable output.

```
breakpointer(inputfolder='folder-with-BAM', outputfolder='output-directory')
```

Although in most cases the above command will produce reasonably good results, it might be worthwile to adjust the default parameters to improve performance and the quality of the results. You can get a description of all available parameters by typing

?breakpointer

After the function has finished, you will find the folder **output-directory** containing all produced files and plots. This folder contains the following *files* and **folders**:

• breakpointR.config: This file contains all the parameters that are necessary to reproduce your analysis. You can specify this file as

```
breakpointer(..., configfile='breakpointR.config')
```

to run another analysis with the same parameter settings.

- data TODO:DAVID
- browserfiles TODO:DAVID

#### 3 Session Info

toLatex(sessionInfo())

- R version 3.3.0 (2016-05-03), x86\_64-pc-linux-gnu
- Locale: LC\_CTYPE=en\_US.UTF-8, LC\_NUMERIC=C, LC\_TIME=de\_DE.UTF-8, LC\_COLLATE=en\_US.UTF-8, LC\_MONETARY=de\_DE.UTF-8, LC\_MESSAGES=en\_US.UTF-8, LC\_PAPER=de\_DE.UTF-8, LC\_NAME=C, LC\_ADDRESS=C, LC\_TELEPHONE=C, LC\_MEASUREMENT=de\_DE.UTF-8, LC\_IDENTIFICATION=C
- Base packages: base, datasets, graphics, grDevices, methods, parallel, stats, stats4, utils
- Other packages: BiocGenerics 0.19.2, breakpointR 0.99.0, cowplot 0.6.2, devtools 1.12.0, GenomeInfoDb 1.9.4, GenomicRanges 1.25.93, ggplot2 2.1.0, IRanges 2.7.14, knitr 1.13, Rcpp 0.12.5, S4Vectors 0.11.13, strandseqExampleData 0.99.0
- Loaded via a namespace (and not attached): Biobase 2.33.0, BiocParallel 1.7.5, BiocStyle 2.1.14, Biostrings 2.41.4, bitops 1.0-6, codetools 0.2-14, colorspace 1.2-6, digest 0.6.9, doParallel 1.0.10, evaluate 0.9, foreach 1.4.3, formatR 1.4, GenomicAlignments 1.9.6, grid 3.3.0, gtable 0.2.0, gtools 3.5.0, highr 0.6, iterators 1.0.8, lattice 0.20-33, magrittr 1.5, Matrix 1.2-6, memoise 1.0.0, munsell 0.4.3, plyr 1.8.4, Rsamtools 1.25.1, scales 0.4.0, stringi 1.1.1, stringr 1.0.0, SummarizedExperiment 1.3.7, tools 3.3.0, withr 1.0.2, XVector 0.13.7, zlibbioc 1.19.0