

# 1 Figures legends

## 1.1 *Figure x.1*

**Donor genome contents.** Expected length of chromosome segments of donor origin (ordinate, in Haldane centimorgans) still segregating in the population at different BC generations (abscissa) on the different parts of the genome: non-carrier chromosomes (solid line), whole carrier chromosome (dashed line) or the intact segment of donor origin on the carrier chromosome (dotted line), see text for more details. The genome considered here consist of one carrier chromosome and nine non-carrier chromosomes, each of 200 cM long.

## 1.2 *Figure x.2*

**Reduction of linkage drag.** Relation between the expected length of the chromosome segments of donor origin around the target gene (ordinate, in Haldane centimorgans), and total number of individuals genotyped for the two flanking markers (abscissa). Each line correspond to marker-assisted backcross programs of different durations (number of BC generations indicated in the middle of each line). Note that both abscissa and ordinate are on logarithmic scales.