List of Figures

Figure 1.1: Structure of the Breast ................................................................. 26
Figure 1.2: Age standardized (world) Incidence rate (per 100,000) of Female Breast Cancer (All ages) ........................................................................................................... 34
Figure 1.3: Age Standardized (world) Mortality Rate (per 100,000) of Female Breast Cancer (All ages) ........................................................................................................... 35
Figure 2.1: Flowchart representing enrolment of study participants in Case-Control Study... 61
Figure 2.2: Pictogram for Measuring Height ..................................................... 68
Figure 2.3: Body Size Pictogram ..................................................................... 69
Figure 3.1 Design of Custom SNP Panel .......................................................... 119
Figure 3.2: Snapshot of Gene Evidence tab of HuGE Navigator used for identifying genes associated with obesity ................................................................. 122
Figure 3.3: Snapshot of selecting SNPs from Candidate genes using GenePipe tab of bioinformatics tool SNPinfo ................................................................. 123
Figure 3.4: Histogram for Call Rate ................................................................ 125
Figure 3.5: Histogram of Call Frequency .......................................................... 126
Figure 3.6: Flow chart of exclusion criteria in Genotyping data ...................... 126
Figure 3.7: Allele Specific Extension ............................................................... 127
Figure 3.8: PCR Uniformity .......................................................................... 128
Figure 3.9: Extension Gap ............................................................................. 128
Figure 3.10: First Hybridization ................................................................. 129
Figure 3.11: Second Hybridization ............................................................... 130
Figure 3.12: An example of Contamination Dashboard for a Beadchip of 32 samples ...... 131
Figure 3.13: Correlation of MAFs between common SNPs in two Indian studies .... 131