CLAIMS

1. A method for determining responsiveness to immunotherapy in a subject, which method comprises detecting in sample from the subject the presence or absence of at least 10 epigenetic chromosome interactions represented by the probes disclosed in Table 39, to thereby determine said responsiveness to immunotherapy in the subject.

2. A method according to claim 1 wherein said detecting of the presence or absence of the chromosome interactions is by a process comprising:
(i) in vitro crosslinking of epigenetic chromosomal interactions present in the sample;
(ii) optionally isolating the cross-linked DNA;
(iii) subjecting said cross-linked DNA to cleaving to form cleaved DNA ends,
(iv) ligating said cross-linked cleaved DNA ends to form ligated DNA; and
(v) identifying the presence of said ligated DNA,
to thereby determine the presence or absence of the chromosome interaction from the presence or absence of the ligated DNA.

3. A method according to claim 2 wherein said ligated DNA is detected by PCR or by use of a probe.

4. A method according to claim 3 wherein said probe has at least 70% identity to any of the probes shown in Table 39.

5. A method according to any one of the preceding claims wherein the presence or absence of the chromosome interaction represented by the probe in Table 52 is determined.

6. A method according to any one of the preceding claims which is carried out as a general diagnostic test for a common characteristic of a multiplicity of conditions, wherein the presence of a chromosome interaction is determined which is common to more than one condition.