

8. The method of claim 1, wherein the subject is healthy.
9. The method of claim 1, wherein the subject has been diagnosed with, or is a suspected of having, a disease.
10. The method of claim 1, wherein the subject is treated with an immune therapy.
11. The method of claim 10, wherein the subject receives immune therapy after the first sample is collected.
12. A method of calculating the change in the immune repertoire of a subject, comprising the steps of:
 - separately amplifying polynucleotides from each population of at least two sample populations of white blood cells collected from the subject, wherein the amplifying is in a reaction mix comprising target-specific nested primers to produce a set of first amplicons, at least a portion of the target-specific nested primers comprising additional nucleotides which, during amplification, serve as a template for incorporating into the first amplicons a binding site for at least one common primer;
 - separately transferring a portion of each of the first reaction mixes containing the first amplicons to second reaction mixes comprising at least one common primer;
 - for each population, amplifying, using the at least one common primer, the first amplicons to produce a set of second amplicons;
 - sequencing each of the second amplicons to identify the frequency of specific CDR3 regions present in the sample;
 - normalizing the CDR3 frequency data;
 - comparing the normalized CDR3 frequency data of the first sample and the second sample to determine the absolute difference between the frequency of each CDR3 sequence; and
 - determining the CDR3 sequences, common to the first sample and the second sample, with the largest frequency changes.

13. The method of claim 12, wherein the first sample and the second sample are to be collected at the same time point.

14. The method of claim 12, wherein the first sample and the second sample are to be collected at different time points.

15. The method of claim 12, wherein the subject is healthy.

16. The method of claim 12, wherein the subject has been diagnosed with, or is suspected of having, a disease.

17. The method of claim 1, wherein the subject is treated with an immune therapy.

18. The method of claim 10, wherein the subject receives immune therapy after the first sample is collected.