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**Diehn et al.**(10) **Pub. No.: US 2014/0296081 A1**(43) **Pub. Date: Oct. 2, 2014**(54) **IDENTIFICATION AND USE OF  
CIRCULATING TUMOR MARKERS**(71) Applicant: **The Board of Trustees of the Leland  
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CA (US)(72) Inventors: **Maximilian Diehn**, Stanford, CA (US);  
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CPC ..... **G06F 19/22** (2013.01); **C12Q 1/6886**  
(2013.01)  
USPC ..... **506/2; 506/8**(57) **ABSTRACT**

Methods for creating a library of recurrently mutated genomic regions and for using the library to analyze cancer-specific and patient-specific genetic alterations in a patient are provided. The methods can be used to measure tumor-derived nucleic acids in patient blood and thus to monitor the progression of disease. The methods can also be used for cancer screening.

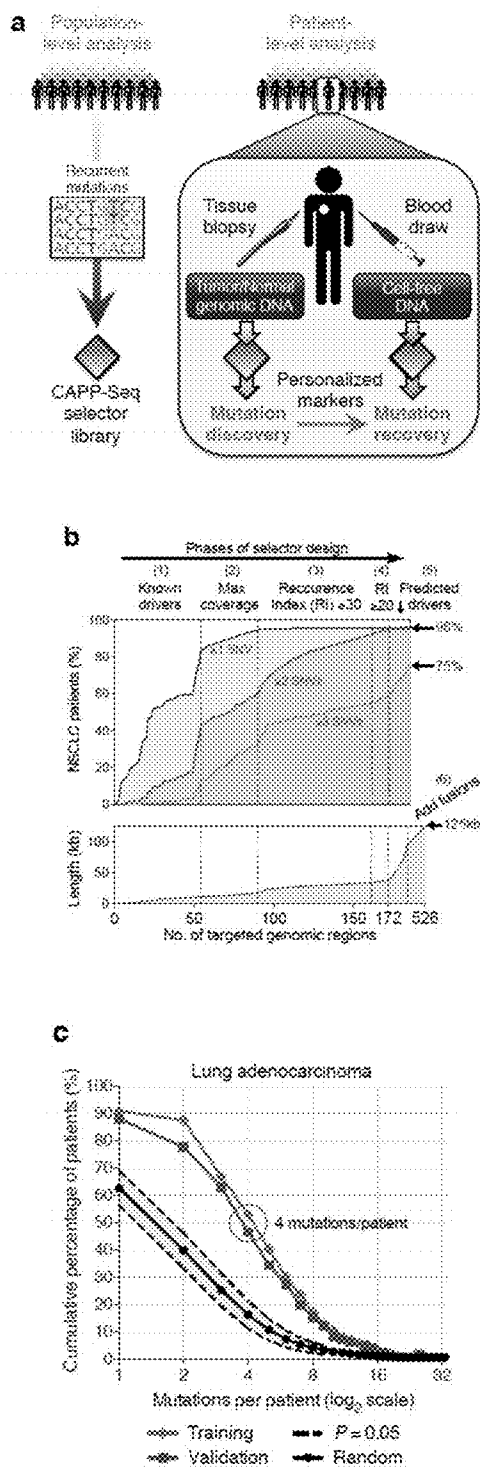


Figure 1

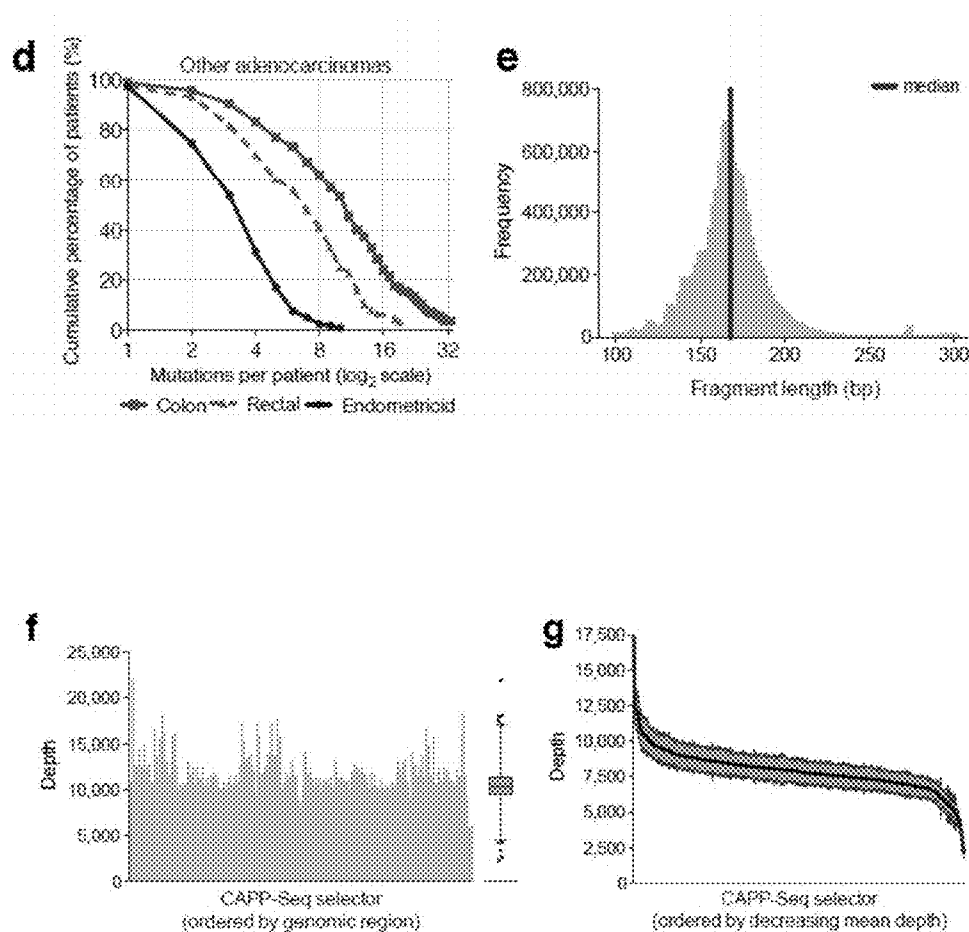


Figure 1 (cont.)

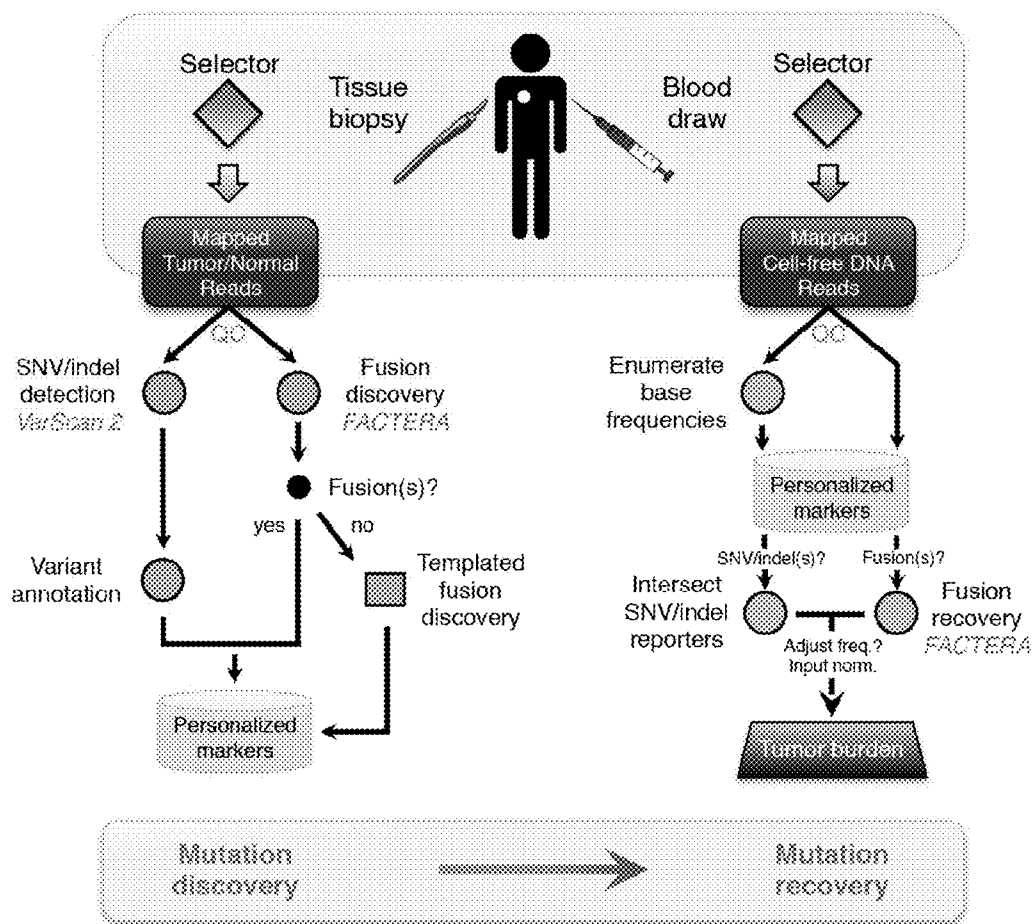


Figure 2

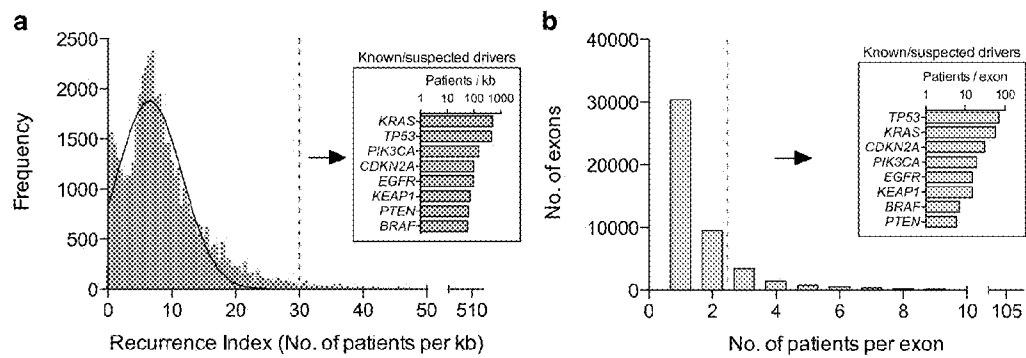


Figure 3

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