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a c DNA, (II, 20). Ma 6, a 6
 a 6 c a a ca c, a b,
 (25, 27). W, a c, a-
 a a a a 6 b, c
 a a ca c, 6, c b, ab
 > 10% a c c > 99%. W, 41
 a b a, (ab, S3) a a a
 a a a a a a a a a
 a a a ca c, a W, a 39
 c b, c b 6, a a, a
 a a a a a a a a a
 a a 6 a a a a (ab, S3). E 39
 b, a c a 6, c a ca c, a-
 a a 6 c (ab, S3).
 W, Ca c, SEEK 6 1,005 a
 a b, a S a I III ca c, a 6,
 ac, a c, a a c c
 b, a N a c a a a 6
 b a c c a a a a
 a a a 6. T, a a a a
 a 64 (a 22 93). T, ca c, 6,
 c, b, ca 6 a, c a a
 b, ca b -ba a c a
 c c ca T, a ca a c ca c a-
 ac c a a a, ab, S4. T,
 c a a a a a A ca J
 C Ca c, (AJCC) a II, acc 49%
 a a a a a a b a I
 (20%), a III (31%) a T, b, a
 a ac. 6, a ab,
 SII. T, a 6 c c 812 a
 a a 55 (a 17 88) 6
 ca c, a 6 a a, a c, c
 6 a
 Ca c, SEEK, a a 8, a
 c a 2,001 c ; ac, c
 c b, a, a a 6 (ba, b-
 a a a 6). T, c a a-
 a a a 6 a a a a 6
 a a a a a a I a
 a a a 6, a ca
 a a acc, ac6 W, a a-
 a a a c, a a c, a
 a a a acc b a a a
 b a c Ca c, SEEK
 (S a 6 Ma a). T, a a c-
 c a b 6 a 10- c
 a a T, c a c a ac c (ROC)
 c a c a a c
 a a a F 2A.
 T, a 6 Ca c, SEEK a

ca c, 6, a, a, a 70% ($P < 10^{-96}$) b a
) a a 98% a a ca c, 33%
 b, a ca c, (F 2C). A 6, c c 6 a
 > 99%; 67 812 a ca -
 c, c W, c b, c, a a
 a a a a a a a 6 c -
 ac, a 6 a a a 6, c ca c, b
 ca 6 a a a a c -
 a a ac. ca ca a a
 a a.
 T, a a a a a
 a a c a c DNA a
 b 6, a ca c, a 125 (CA-125), ca c, b 6-
 c a (CEA), ca c, a 19-9 (CA19-9), ac
 (PRL), a c 6, ac (HGF), (OPN),
 6 a (MPO), a b a
 a, 1 (TIMP-1) (ab, S9). Wa, a
 ac. c DNA a a Ca -
 c, SEEK a b a a
 a ca c, (S2). T, a c, a
 c DNA a a Ca c, SEEK a
 ab, S9 a a c a c a a 6 a 6-
 c, S3. T, c a a, c
 a a a a a a
 a a a a, ab, S5 a S6. T, b-
 ab c, a a c a, ac.
 ca a a S4; ac.
 a a 6 Ca c, SEEK
 c c a a c a a 6
 O a a b a c, a
 ab 6 c ca c, a a 6 a 6 a. T,
 a 6 Ca c, SEEK a 73% c -
 a a a, (S a II), a (78%), S a III
 ca c, a (43%), S a I ca c, (F 2B). T,
 6 a a ca c, (S a I) a c,
 ca c, (100%) a a ca c,
 (20%).

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27. E. F. Pa. J., M. J. Ca P 9, 20.6 (c)-0.7 ()0.5 ()0.5 ()0.5 (a)15.3 ()-7.5 (a)0.5 028 B0 T (h)0.5, 1 (.194 T5.3 ()B 14.552.()0.5 (G10205 (12 21C)M6 SCN O T .)6)1.80

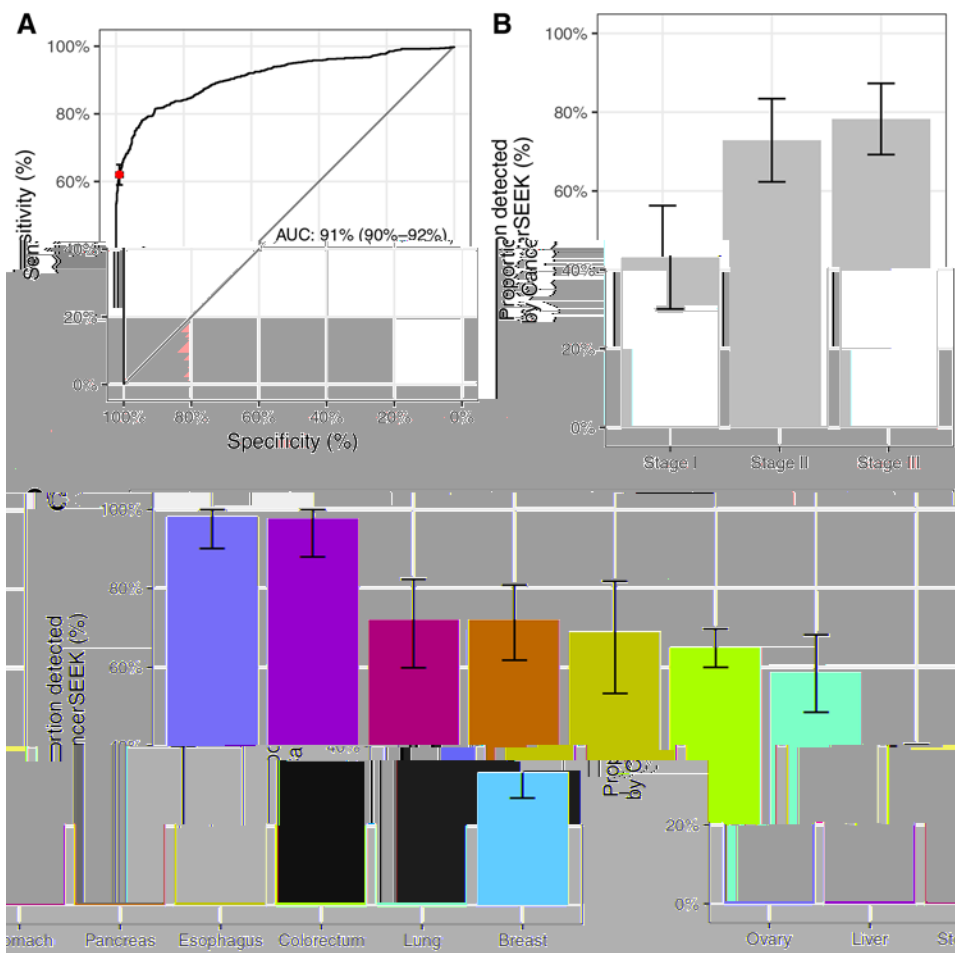


Fig. 2. Performance of Cancer SEEK. (A) Receiver Operating Characteristic (ROC) curve of Cancer SEEK. The area under the curve indicates the overall performance of Cancer SEEK (62%).

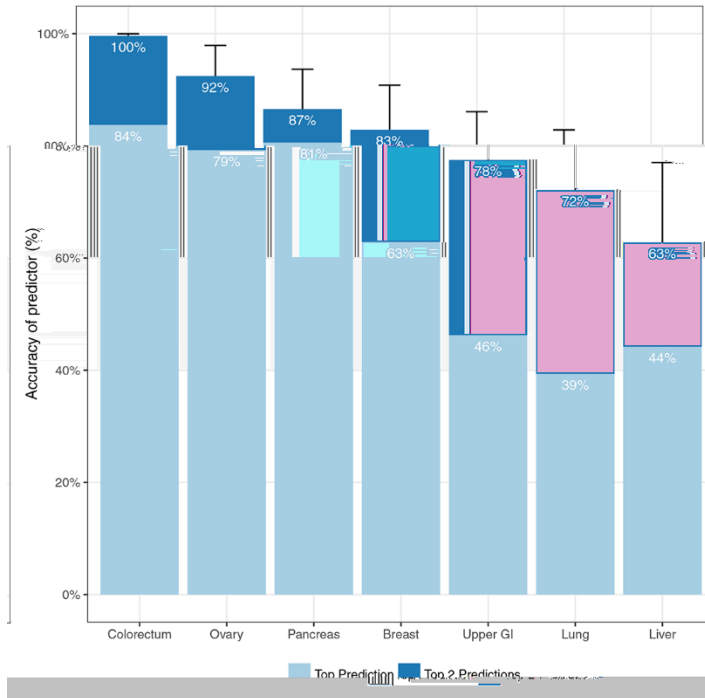


Fig. 3. Identification of cancer by using machine learning methods classified as the Cancer SEEK. Percentage of the identified cancer types (light blue) and the likelihood (light blue) of the predicted cancer types (light blue) are provided in Table S8. Error bars represent 95% confidence interval.



Detection and localization of surgically resectable cancers with a multi-analyte blood test

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