

Figure S1

RAD51 immunofluorescence

BRCA carrier:
RAD51 negative/ HRD

Control patient:
RAD51 positive/HR+

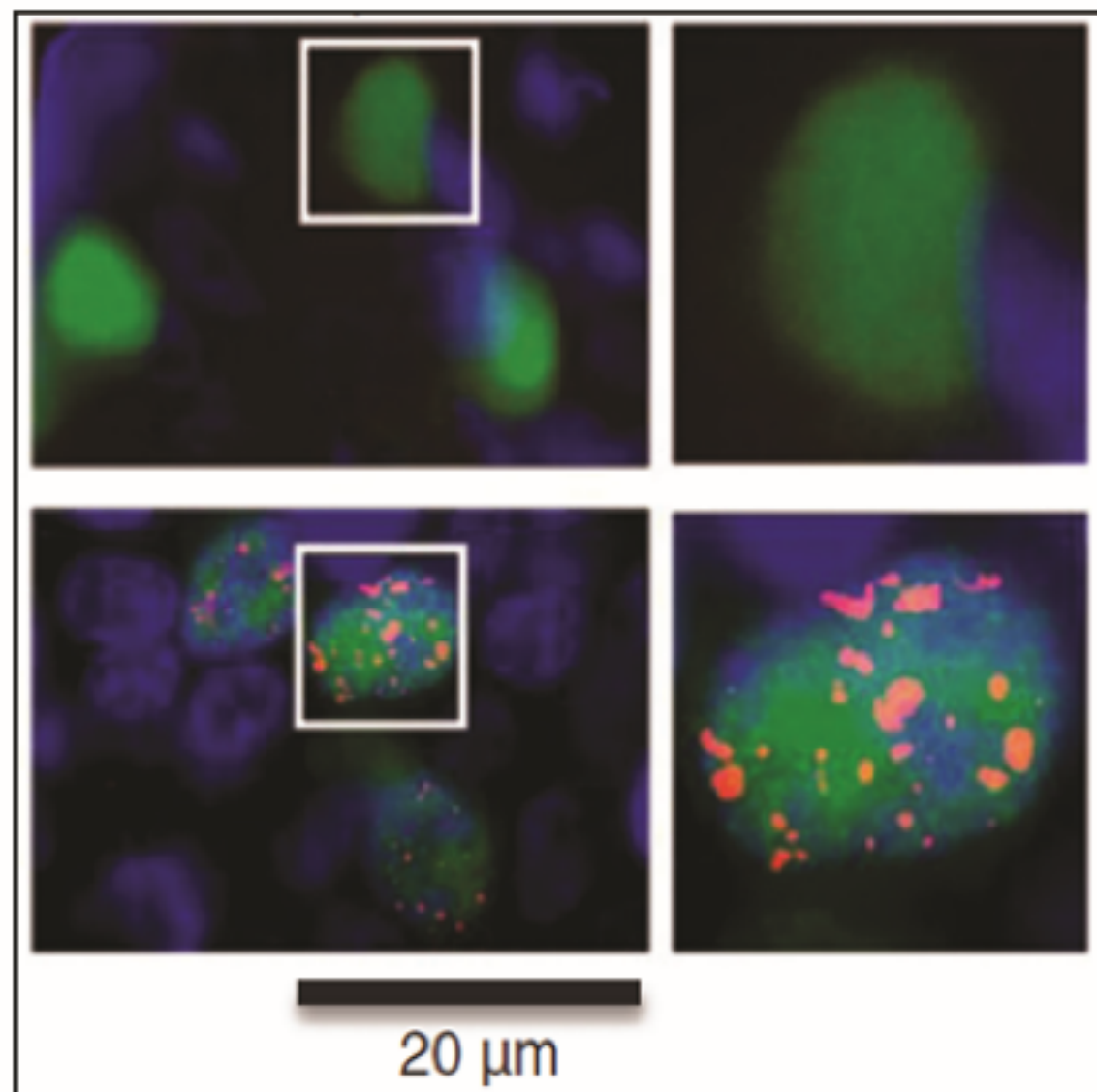


Figure S2

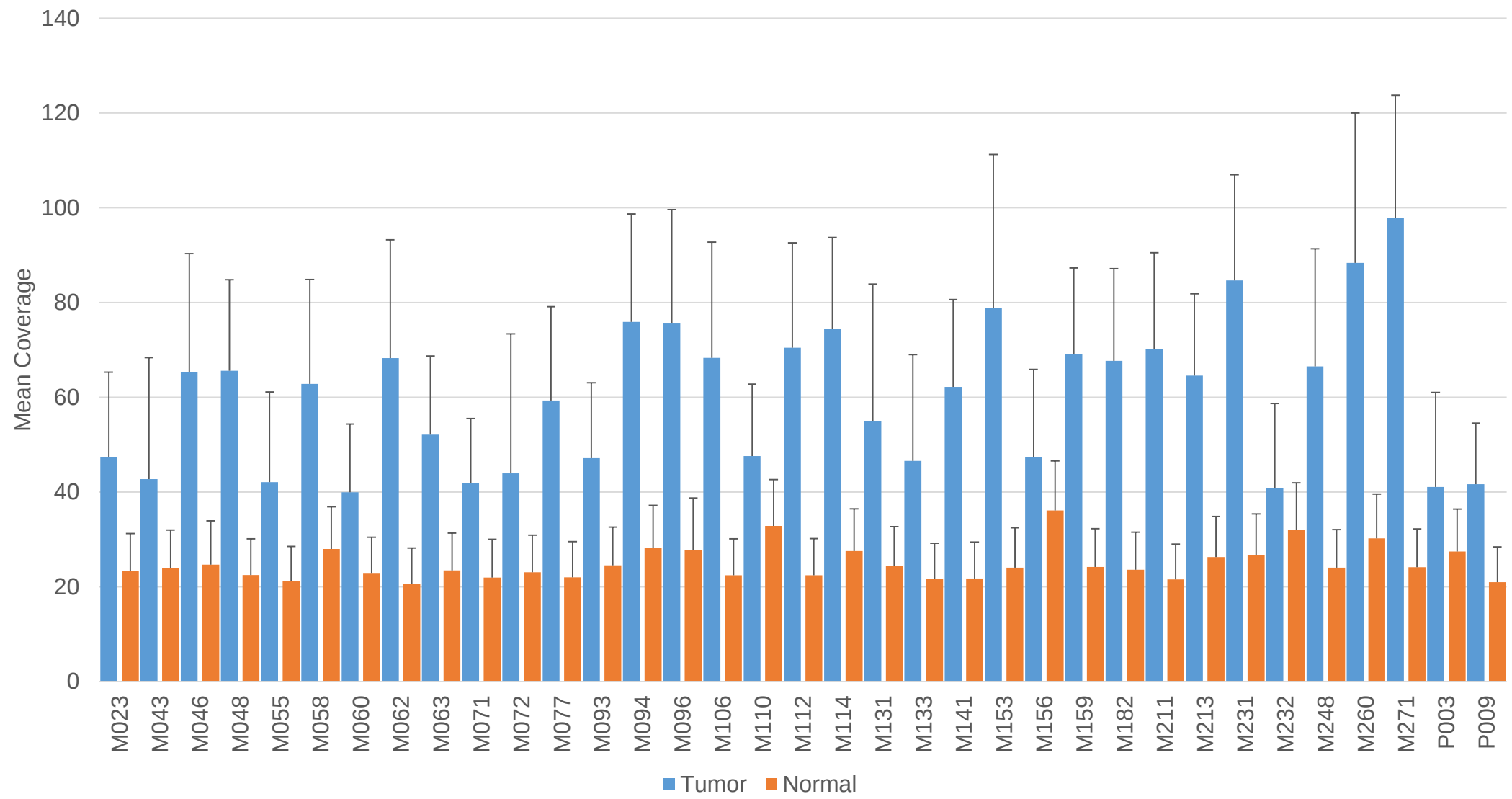
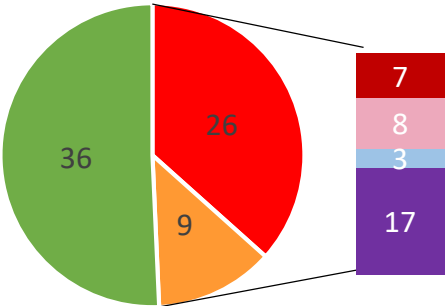


Figure S3

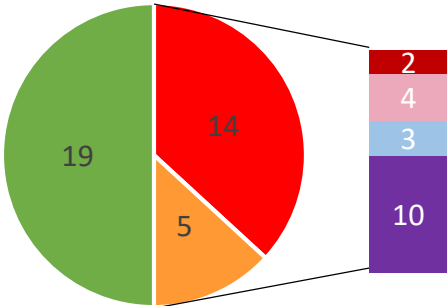
Sample	RECAP	CHORD	B1 & B2-classifier	BRCA status
M248	HRD	HRD	B1 & B2-like	germline BRCA1 mut
M131	HRD	HRD	B1 & B2-like	BRCA1 methylation
M232	HRD	HRD	B1 & B2-like	WT
M182	HRD	HRD	B1-like	BRCA1 methylation
M231	HRD	HRD	B2-like	germline BRCA2 mut
M317	HRD	HRD	NS	germline BRCA2 mut
M365	HRD	HRD	NS	BRCA1 methylation
M260	HRD	HRP	B1 & B2-like	WT
M106	HRD	HRP	B1 & B2-like	BRCA2 VUS
M077	HRD	HRP	B1-like	WT
M362	HRD	NS	B1-like	germline BRCA2 mut
M094	HRD	HRP	B2-like	WT
M096	HRD	HRP	Spor-like	somatic BRCA2 mut
M271	HRD	HRP	Spor-like	WT
M156	HRD	HRP	Spor-like	WT
M211	HRD	HRP	Spor-like	BRCA2 VUS
M093	HRD	HRP	Spor-like	WT
M282	HRD	HRP	NS	WT
M390	HRD	HRP	NS	WT
P002	HRD	NS	B1 & B2-like	germline BRCA2 mut
M188	HRD	NS	B1 & B2-like	germline BRCA2 mut
M270	HRD	NS	B1-like	WT
M057	HRD	NS	B1-like	somatic BRCA2 mut
M275	HRD	NS	B2-like	germline BRCA2 mut
M119	HRD	NS	Spor-like	BRCA1 methylation
M277	HRD	NS	Spor-like	BRCA1 methylation
M141	HRi	HRD	Spor-like	BRCA1 methylation
M367	HRi	HRD	NS	WT
M055	HRi	HRP	B2-like	WT
M313	HRi	HRP	B1-like	WT
M298	HRi	HRP	B1-like	BRCA2 VUS
M253	HRi	NS	B1-like	WT
M278	HRi	NS	B2-like	WT
M112	HRi	HRP	Spor-like	WT
M209	HRi	NS	Spor-like	WT
M273	HRP	HRD	NS	mono-allelic germline BRCA2 mut
M062	HRP	HRP	B1 & B2-like	WT
M046	HRP	HRP	B2-like	WT
M072	HRP	HRP	B2-like	BRCA2 VUS
M213	HRP	HRP	B2-like	WT
P003	HRP	HRP	B2-like	WT
M023	HRP	HRP	Spor-like	WT
M043	HRP	HRP	Spor-like	BRCA1 VUS
M048	HRP	HRP	Spor-like	WT
M058	HRP	HRP	Spor-like	WT
M060	HRP	HRP	Spor-like	WT
M063	HRP	HRP	Spor-like	WT
M071	HRP	HRP	Spor-like	WT
M110	HRP	HRP	Spor-like	WT
M114	HRP	HRP	Spor-like	WT
M133	HRP	HRP	Spor-like	WT
M153	HRP	HRP	Spor-like	WT
M159	HRP	HRP	Spor-like	WT
P009	HRP	HRP	Spor-like	BRCA2 VUS
M252	HRP	HRP	NS	WT
M314	HRP	HRP	NS	WT
M294	HRP	HRP	NS	WT
M299	HRP	HRP	NS	WT
M336	HRP	HRP	NS	WT
M359	HRP	HRP	NS	WT
M363	HRP	HRP	Spor-like	WT
M368	HRP	HRP	NS	WT
M392	HRP	HRP	NS	WT
M396	HRP	HRP	NS	WT
M100	HRP	NS	B1-like	WT
M109	HRP	NS	B2-like	WT
M018	HRP	NS	Spor-like	WT
M021	HRP	NS	Spor-like	WT
M061	HRP	NS	Spor-like	WT
M074	HRP	NS	Spor-like	WT
M181	HRP	NS	Spor-like	WT

RECAP



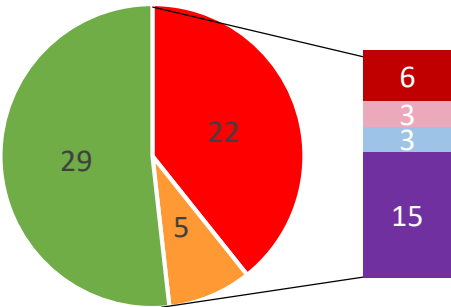
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RECAP



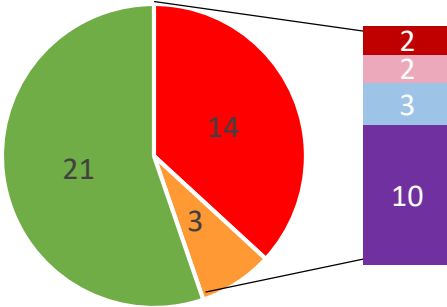
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BRCA1/2-like



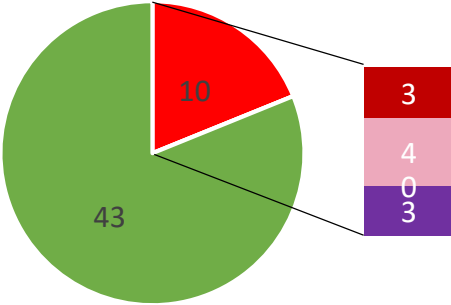
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BRCA1/2-like



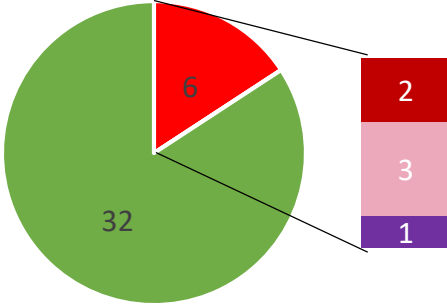
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CHORD



N=53

CHORD



N=38

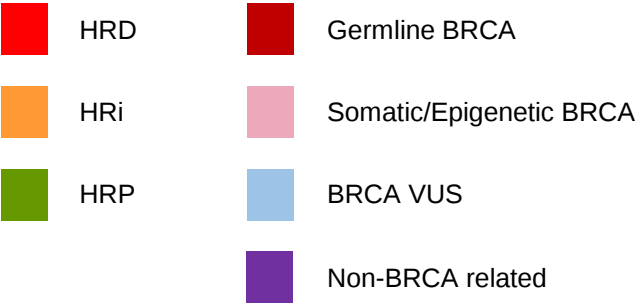


Figure S5

Tumor	HRDetect score	HRDetect	CHORD score	CHORD
M023	0,024	proficient	0	proficient
M043	0,094	proficient	0	proficient
M046	0,034	proficient	0.002	proficient
M048	0,002	proficient	0.002	proficient
M055	0,289	proficient	0	proficient
M058	0,000	proficient	0	proficient
M060	0,001	proficient	0	proficient
M062	0,213	proficient	0	proficient
M063	0,001	proficient	0	proficient
M071	0,002	proficient	0	proficient
M072	0,000	proficient	0	proficient
M077	0,026	proficient	0.004	proficient
M093	0,001	proficient	0	proficient
M094	0,019	proficient	0	proficient
M106	0,157	proficient	0	proficient
M110	0,000	proficient	0	proficient
M112	0,002	proficient	0.002	proficient
M114	0,000	proficient	0.034	proficient
M131	1,000	deficient	0.94	deficient
M141	0,982	deficient	0.912	deficient
M153	0,000	proficient	0	proficient
M156	0,002	proficient	0	proficient
M159	0,000	proficient	0.008	proficient
M182	0,998	deficient	0.91	deficient
M211	0,188	proficient	0	proficient
M213	0,030	proficient	0	proficient
M231	0,967	deficient	0.864	deficient
M232	0,995	deficient	0.618	deficient
M248	0,998	deficient	0.904	deficient
M260	0,032	proficient	0	proficient
M271	0,000	proficient	0.002	proficient
P003	0,001	proficient	0	proficient
P009	0,003	proficient	0	proficient

Figure S6

Comparison BRCA1/2-like classifier and CHORD

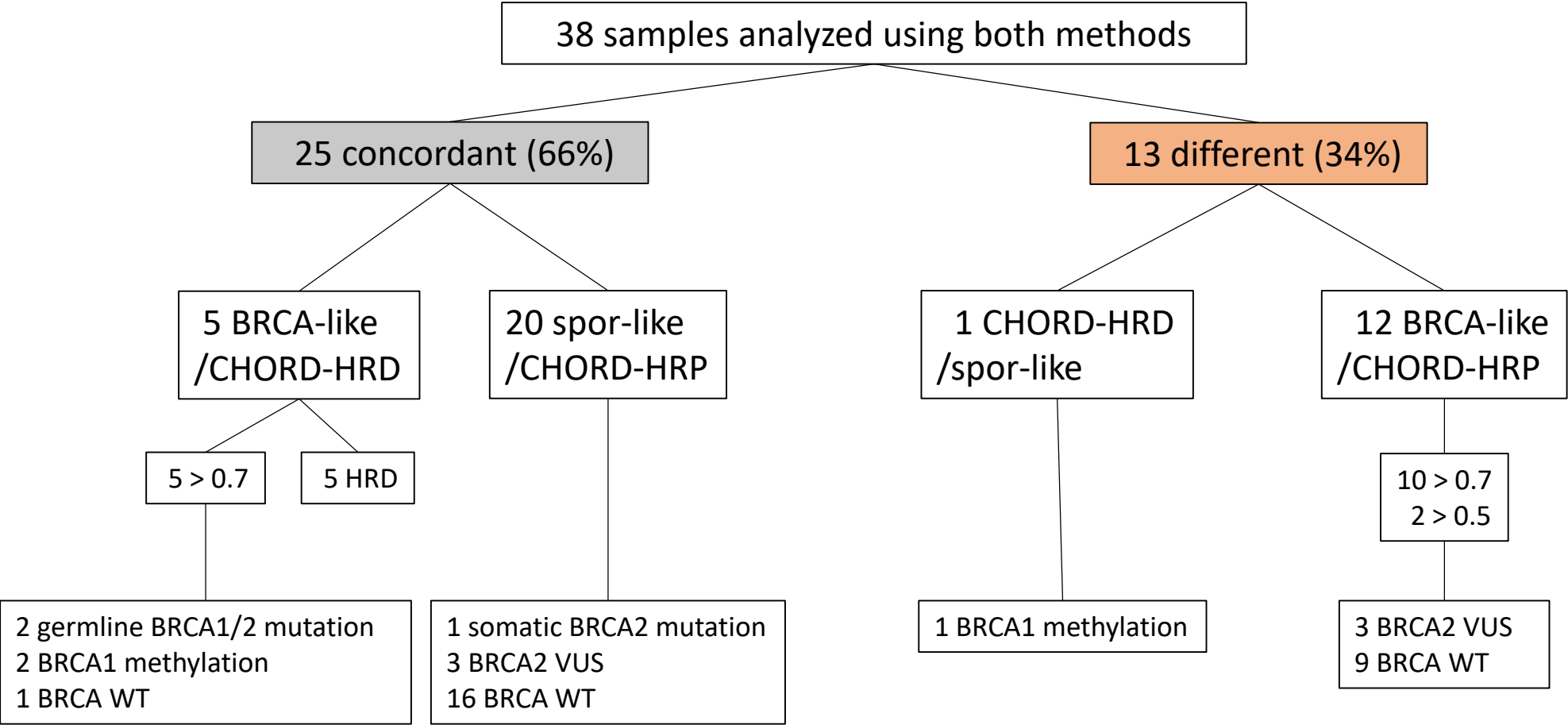


Figure S7

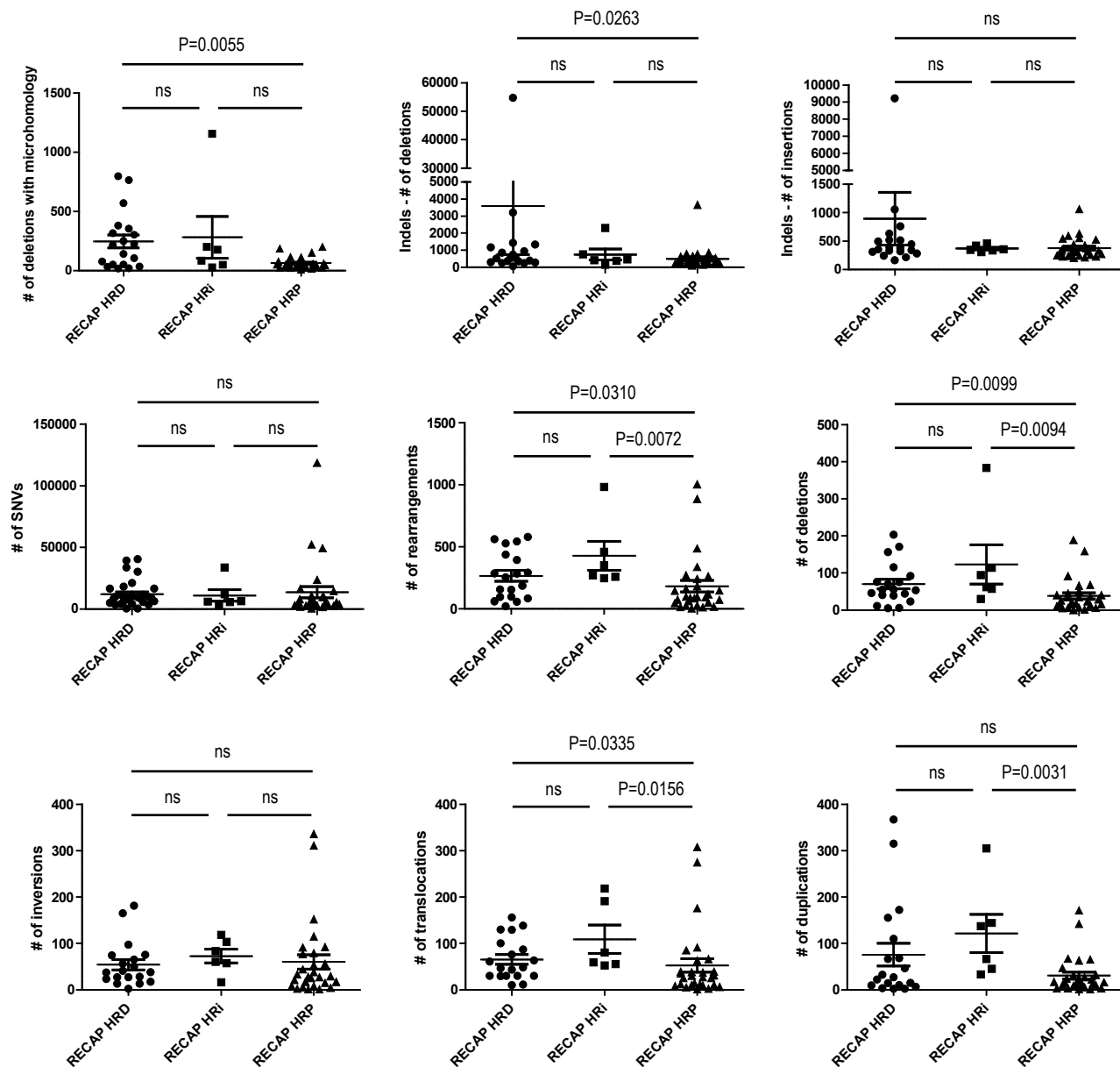
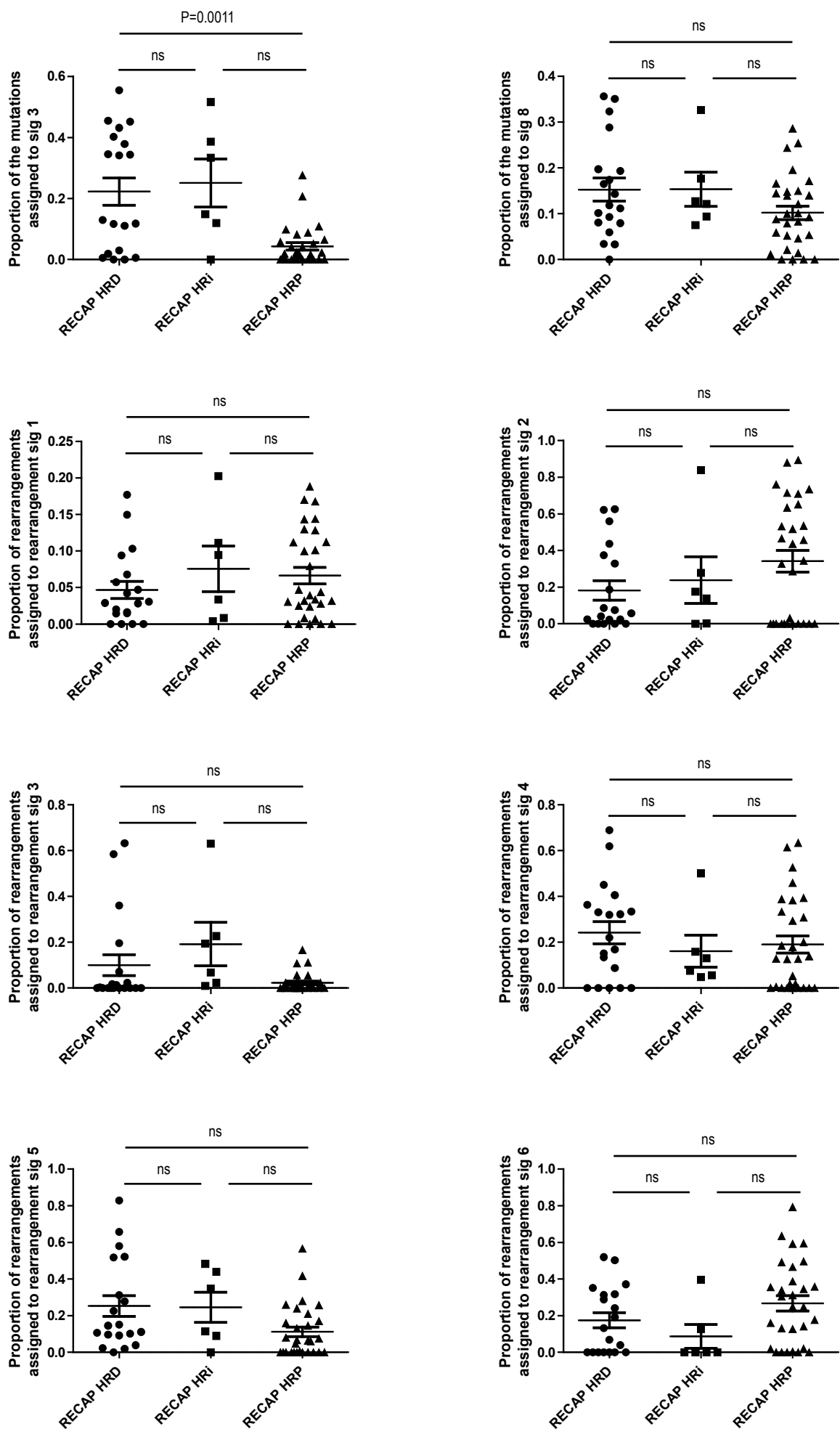
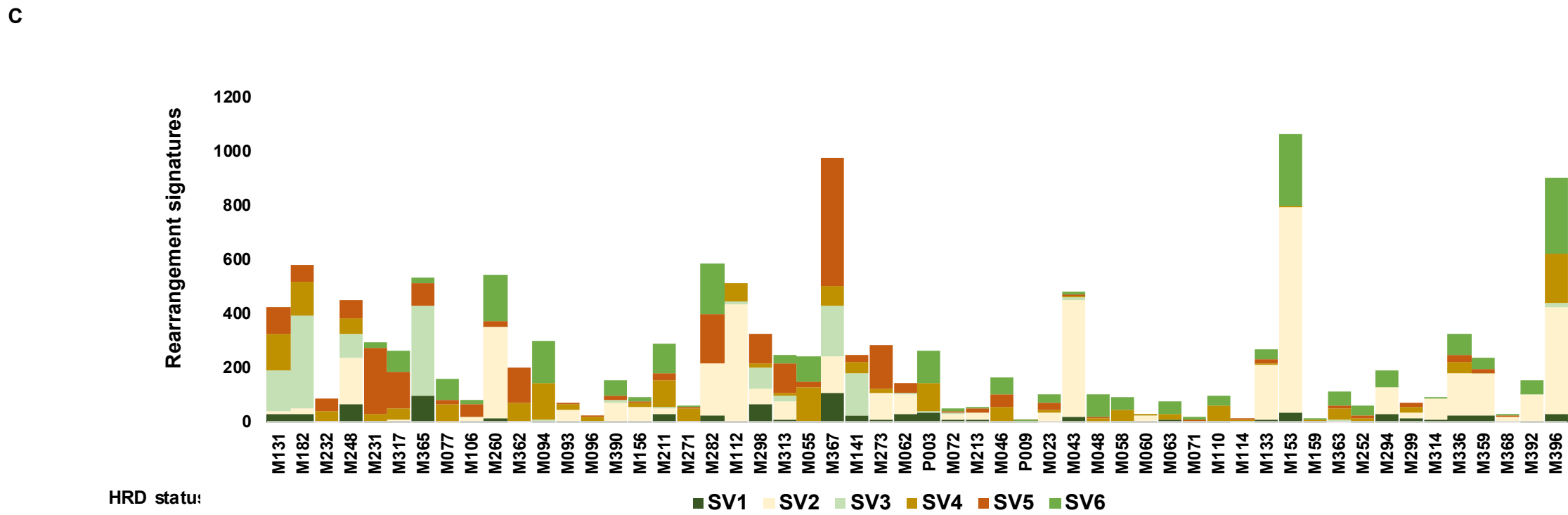
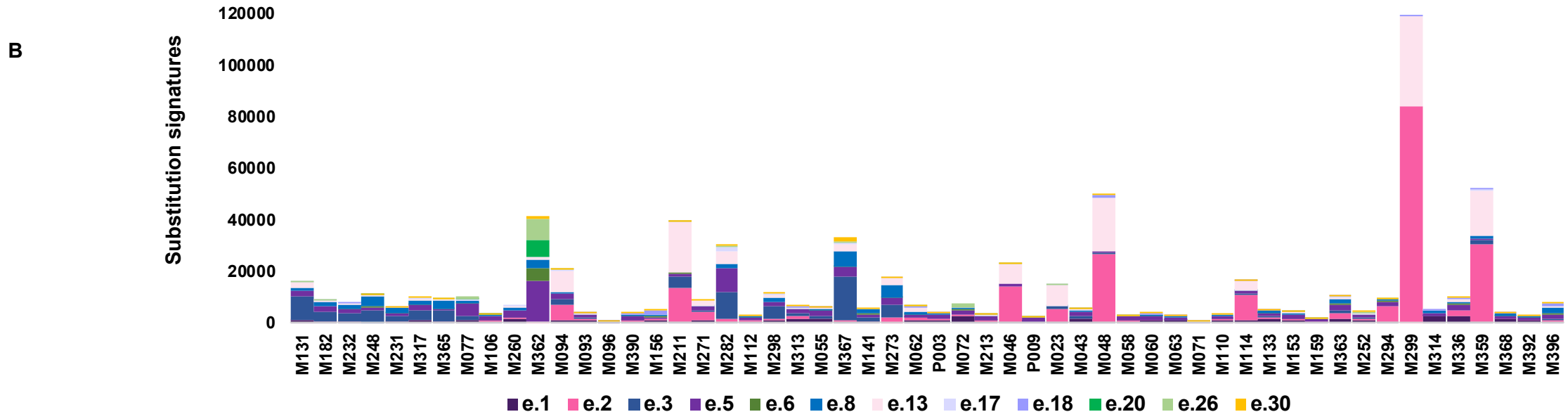
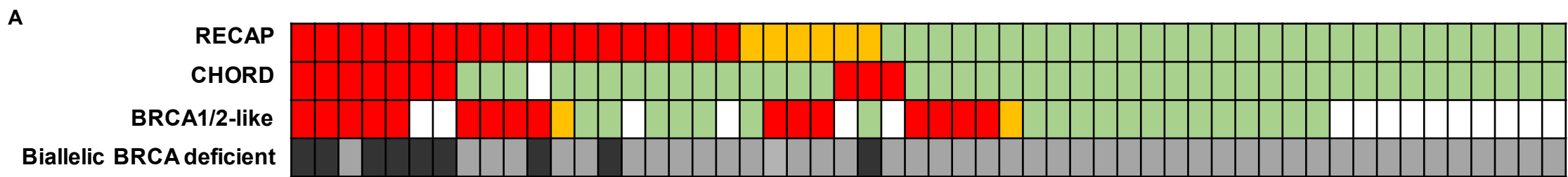


Figure S8





HRD status:

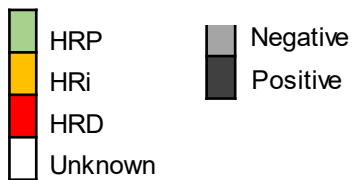


Figure S9

Figure S10

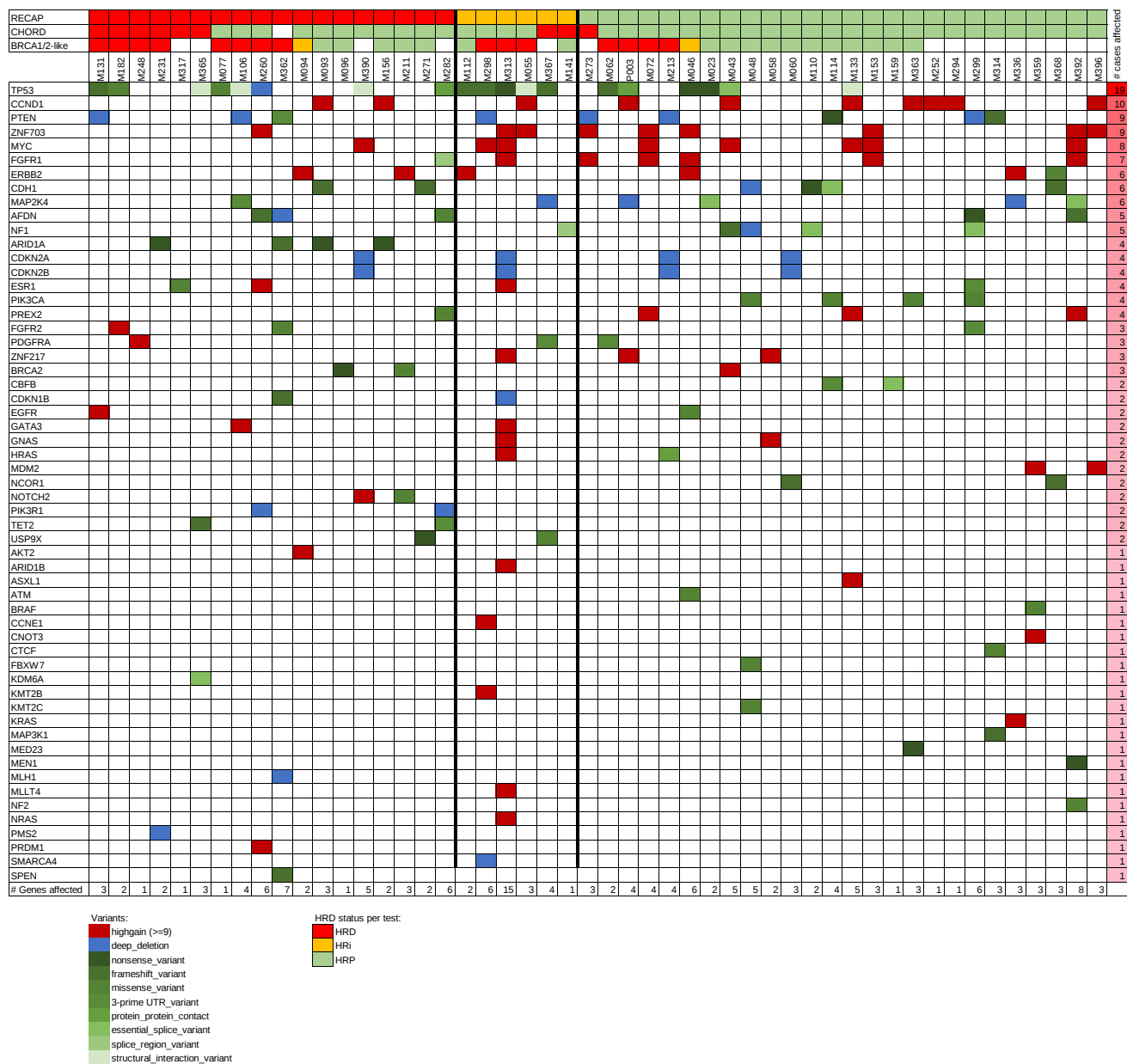


Figure S11

