Mutational signature analysis UVM primary tumor 100 -Signature S17 S1 S18 S2 75 **-**S19 S3 S4 S20 S5 S21 Contribution (%) S22 S6 S23 S7 50 **-**S8 S24 S9 S25 S26 S10 S11 S27 S13 S28 25 **-**S14 S29 S15 S30 S16 unknown Sample