FU-CCA Cohort Overal Survival (R4 ssGSEA score) High Low -100%-75% Survival 50%-25% p = 0.0430% 500 1000 1500 2000 0 Time in Days Number at risk (number censored) Low 86 (0) 61 (0) 32 (2) 6 (23) 0 (28) High 28 (0) 14 (0) 6 (1) 2 (3) 1 (4) 500 1000 2000 0 1500

Time in Days