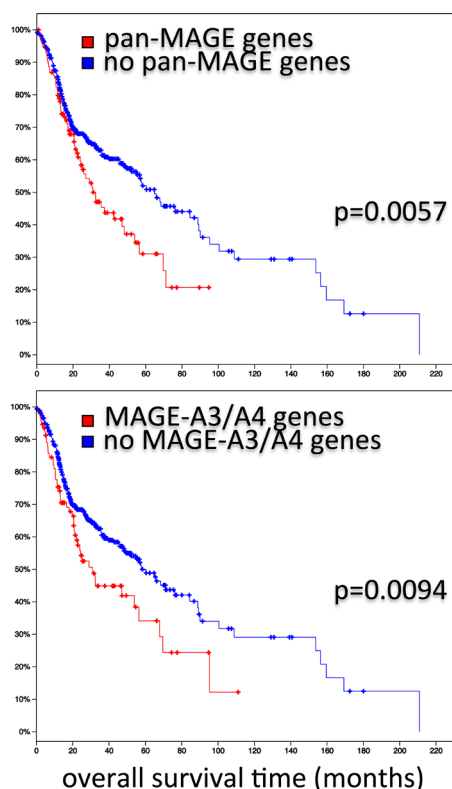
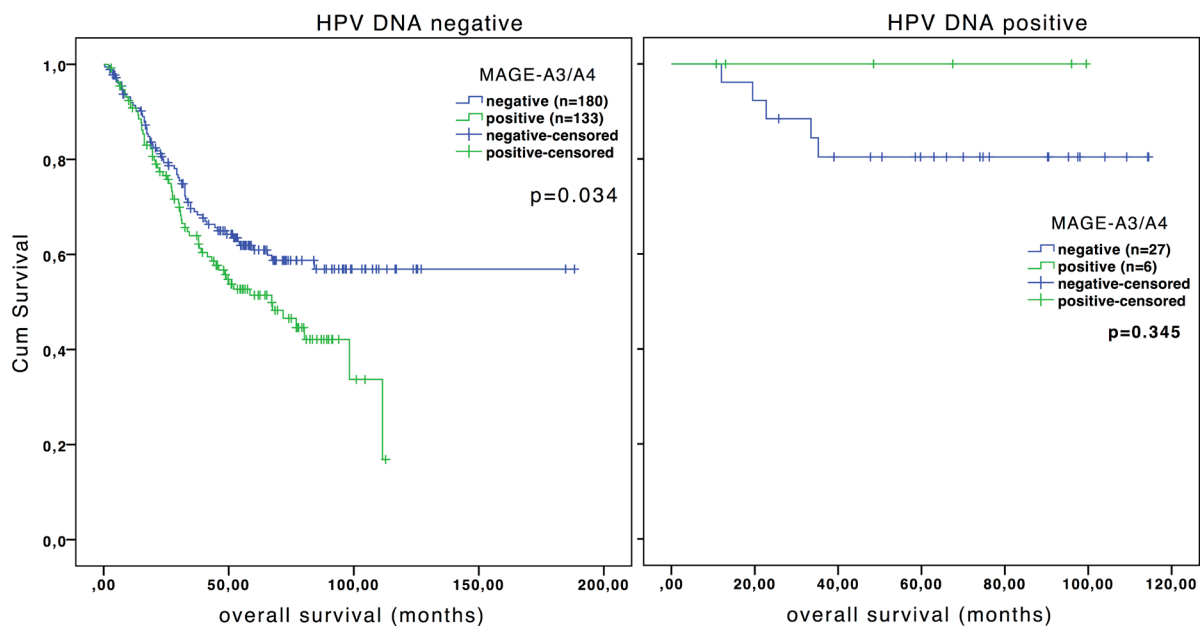


MAGE expression in head and neck squamous cell carcinoma primary tumors, lymph node metastases and respective recurrences-implications for immunotherapy

Supplementary Materials



Supplementary Figure 1: Overall survival based on MAGE gene signatures in the TCGA cohort. TCGA data as analyzed for OS using the analysis tool cbiportal.org. The upper Kaplan-Meier curve shows OS for tumors expressing upregulated mRNA of the genes recognized by the M3H67 antibody (pan-MAGE genes: MAGE-A1, -A3, -A4, -A8, -A10, -B2, -C2). Overall, 517 cases with data were available for this analysis. Sixty of 116 cases with upregulated pan-MAGE genes and 160/401 cases without upregulated pan-MAGE genes had events to analyze. The lower Kaplan-Meier curve shows OS for tumors expressing upregulated mRNA of the genes recognized by the 57B antibody (MAGE-A3/A4: MAGE-A3, -A4, -A6, -A12). Overall, 517 cases with data were available for this analysis. Forty-eight of 92 cases with upregulated MAGE-A3/A4 genes and 172/425 cases without upregulated MAGE-A3/A4 genes had events to analyze. The results shown here are in whole based upon data generated by TCGA Research Network: <http://cancergenome.nih.gov/>.



Supplementary Figure 2: Subgroup analysis of the prognostic impact of MAGE-A3/A4 expression in the HPV negative subgroup and the HPV positive subgroup based on HPV-DNA status. MAGE-A3/A4 expression was significantly associated with lower survival in the HPV negative subgroup ($p = 0.034$), but not in the HPV positive subgroup ($p = 0.345$). Notably, in the HPV positive subgroup, no events were registered in the MAGE-A3/A4 positive patients, whereas 20% of MAGE-A3/A4 negative patients had an event.