

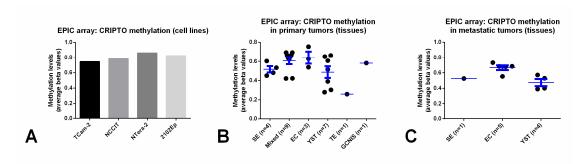


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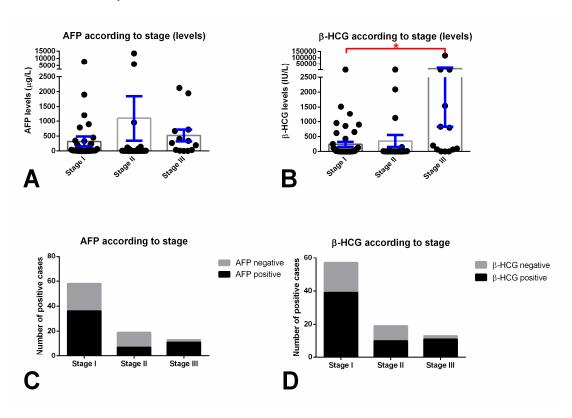
## CRIPTO and miR-371a-3p Are Serum Biomarkers of Testicular Germ Cell Tumors and Are Detected in Seminal Plasma from Azoospermic Males

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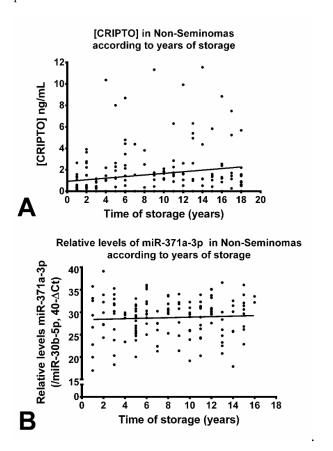
## **Supplementary Materials**



**Figure S1.** Methylation levels for CRIPTO promoter derived from EPIC array analyses on cell lines (A), primary tumor tissues (B) and metastatic tumor tissues (C). Average beta values are plotted. Abbreviations: EC – embryonal carcinoma; GCNIS – germ cell neoplasia in situ; SE – seminoma; TE – teratoma; YST – yolk sac tumor.



**Figure 2.** AFP (A and C) and β-HCG (B and D) levels according to disease stage. Levels of AFP and β-HCG according to disease stage (A and B; error bars represent  $\pm$ S.E.M); number of positive cases according to disease stage (C and D). Abbreviations: AFP – alpha fetoprotein; β-HCG – human chorionic gonadotropin subunit beta.



**Figure 3.** Correlation between years of sample storage and A) CRIPTO concentration and B) miR-371a-3p relative levels in the non-seminoma serum cohort. Relative levels of miR-371a-3p were normalized with miR-30b-5p and plotted in  $40-\Delta Ct$  format.

**Table S1.** CRIPTO concentration analyses presented in Table 2, with outlier value in the control group removed.

All Sample Types	<i>p</i> -value*
Control	-
Seminoma	0.2700
Non-Seminoma	0.0042
GCNIS	0.5157
Non-Seminomas Only	<i>p-</i> value*
Control	-
Mixed	0.0045
EC	0.0022
YST	0.4397
TE	0.4288
Mixed Tumors Only	<i>p-</i> value*
Control	_
Mixed, EC-positive	0.0043
Mixed, EC-negative	0.0390

<sup>\*</sup> *p*-values refer to the comparison between the individual patient groups and controls. Abbreviations: EC – embryonal carcinoma; GCNIS – germ cell neoplasia *in situ*; TE – teratoma; YST – yolk sac tumor.