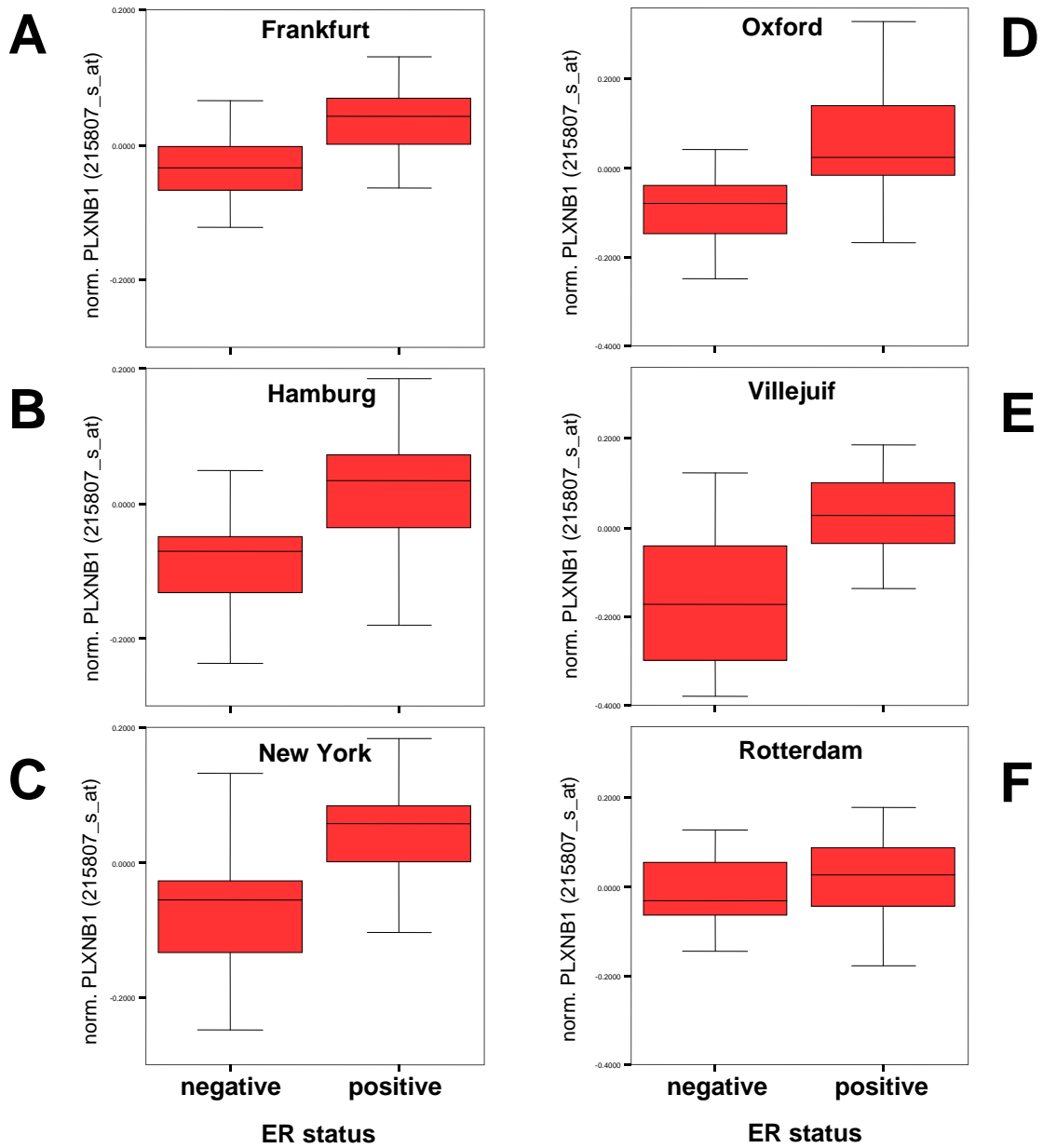


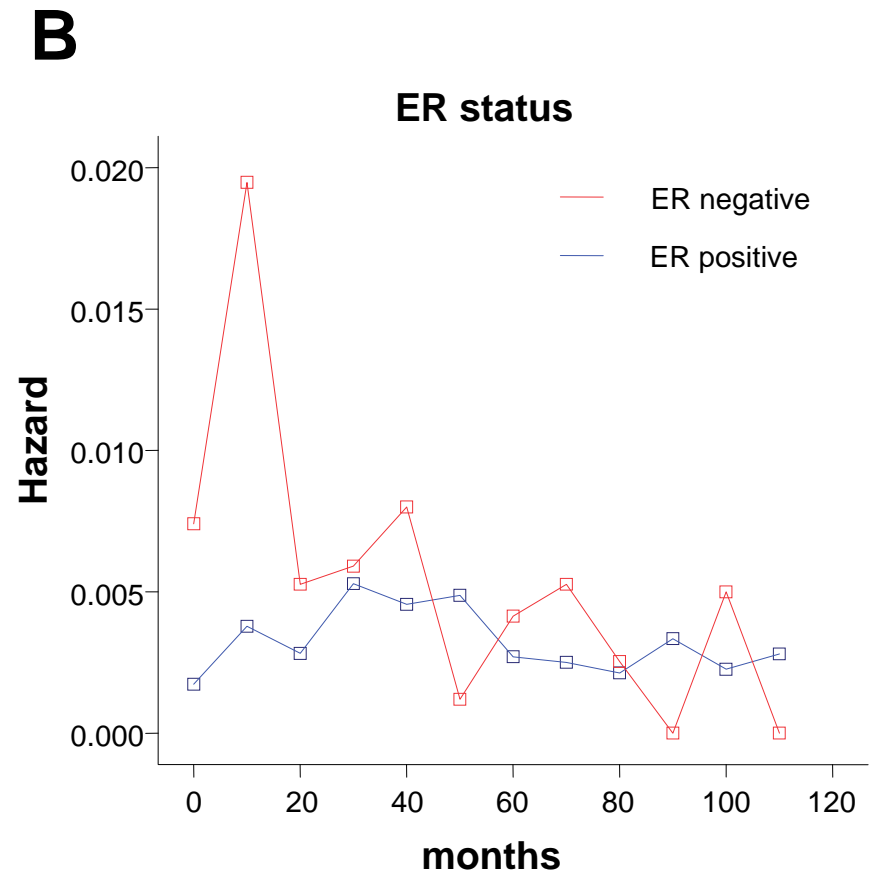
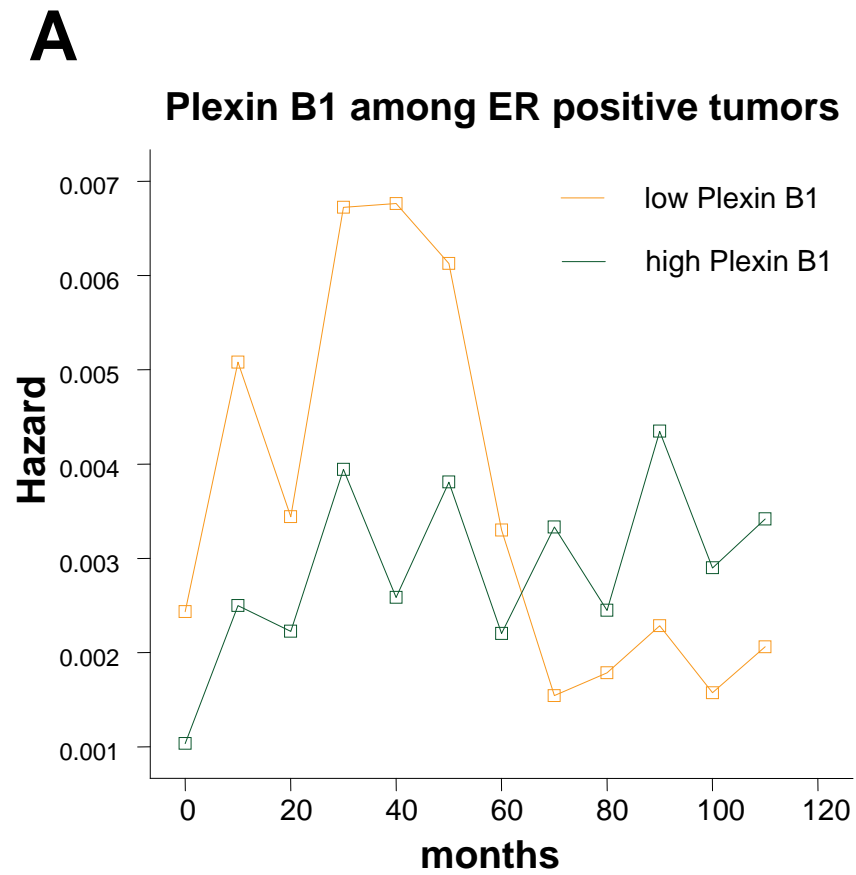
Supplementary Figure 7: Derivation of cutoff values for ER and ErbB2 Affymetrix expression data.

To derive cutoff values for ER (ProbeSet 205225\_at) and ErbB2 (ProbeSet 216836\_s\_at) Affymetrix expression data two normal distributions were fitted to the observed distributions of expression values (Venables & Ripley, *Modern Applied Statistics with S*. Springer 2002). Specificity and sensitivity of the derived cutoff values were obtained from datasets with available immunohistochemical or biochemical data on ER and HER2 status. Data are presented here from three exemplary datasets with available immunohistochemical data for both ER and HER2.



**Suppl. Figure 8: Quality of Plexin B1 Affymetrix measurements in different datasets.**

The correlation of Plexin B1 expression with the ER status of the tumor was used as a criterium for data quality of Plexin B1 expression measurements in different Affymetrix datasets. Dataset *F* (Rotterdam) was excluded from the study based on the low difference in expression between ER positive and negative tumors.



**Suppl. Figure 9: Annual hazard rates of disease recurrence.**

The annual hazard rates of disease recurrence are plotted according to Plexin B1 expression among cases with ER positive tumors (**A**) and according to ER status among all cases (**B**).

**Suppl. Table 4: Univariate analysis of standard parameters and PlexinB1 expression in relation to disease free survival.**

Parameter:		All samples			ER positive tumors only		
		n=	Hazard Ratio	P-Value	n=	Hazard Ratio	P-Value
ER status	positive vs negative	762	0.5	<0.001	-	-	-
Lymph node status	LNN vs. N1	595	0.8	0.3	443	0.9	0.5
Age	> 50 years vs ≤ 50 years	603	1.0	0.8	450	1.0	1.0
Pathological grading	poor vs. well/intermediate	603	2.0	<0.001	475	1.8	0.002
Tumor size	>2cm vs ≤2cm	603	2.2	<0.001	450	2.2	<0.001
ErbB2 status	positive vs negative	762	1.6	0.01	580	1.7	0.04