

Supplementary Table 1. Main patient characteristics, univariate p-values (log-rank test) for disease-free survival (DFS) and overall survival (OS) and the mean \pm standard deviation (SD) of NNCI expression for each clinical characteristic compared by T-test or ANOVA test according TNM 8th edition.

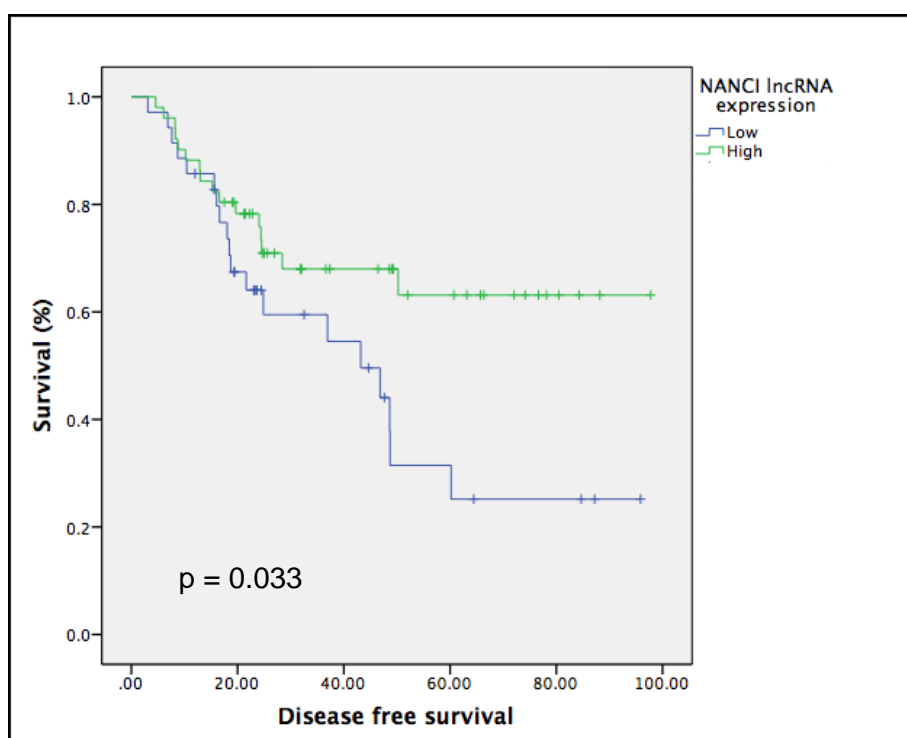
Characteristics	Value	N=86 (%)	DFS p-value	OS p-value	NNCI p-value
Sex	Male Female	73 (74.5) 25 (25.5)	0.005	0.022	0.102
Age, yrs	Mean (Range) ≤65 >65	67 (38-84) 42 (42.1) 56 (57.1)	0.697	0.361	0.118
ECOG PS^a	0 1	15 (17.4) 71 (82.6)	0.181	0.079	0.341
Stage	IA1 IA2 IA3 IB	4 (4.7) 27 (31.4) 34 (39.5) 21 (24.4)	0.615	0.797	0.170
Histology	ADK SCC Large cell carcinoma Adenosquamous carcinoma	53 (61.6) 29 (33.7) 3 (3.5) 1 (1.2)	0.287	0.370	0.065
Type of surgery	Lobectomy/bilobectomy Pneumonectomy Atypical resection Anatomical resection	68 (79) 2 (2.4) 8 (8.3) 8 (9.3)	0.816	0.844	0.440
Smoking history	Current smoker Former smoker Never smoker	25 (29.1) 48 (55.8) 13 (15.1)	0.308	0.312	0.118
Relapse	No Yes	63 (73.3) 23 (26.7)	-	-	0.745
Emphysema	Yes No Unknown	38 (53.5) 33 (46.5) 15 (17.4)	0.086	0.211	0.124
COPD^c	Yes No Unknown	51 (59.3) 24 (27.9) 11 (12.8)	0.838	0.765	0.098
DLCO^d (%)	Mean (Range) ≥60% <60%	73.4 (35-101) 50/60 (83.3) 10/60 (11.6)	0.270	0.216	0.077
Molecular Features	TP53 mutation TP53 WT KRAS mutation KRAS WT EGFR mutation ^b EGFR WT ^b	17/64 (26.6) 47/64 (73.4) 10/66 (15.2) 56/66 (84.8) 8/30 (26.7) 22/30 (73.3)	0.358 0.955 0.302	0.875 0.879 0.217	0.026 0.461 0.208

^a Eastern Cooperative Oncology Group performance status

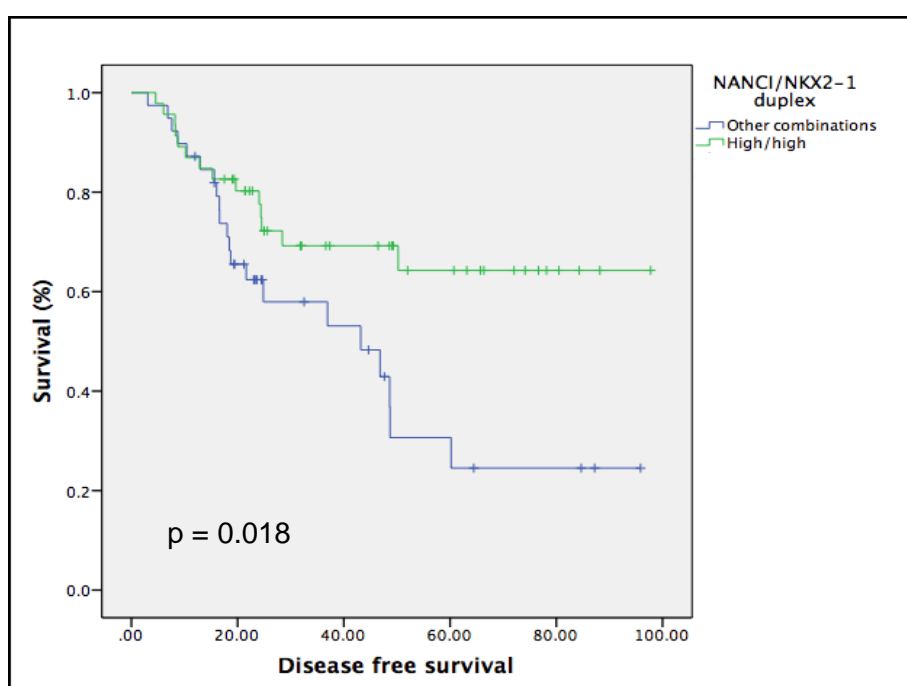
^b EGFR mutational status was assessed only in adenocarcinoma patients.

^c COPD Chronic Obstructive Pulmonary Disease.

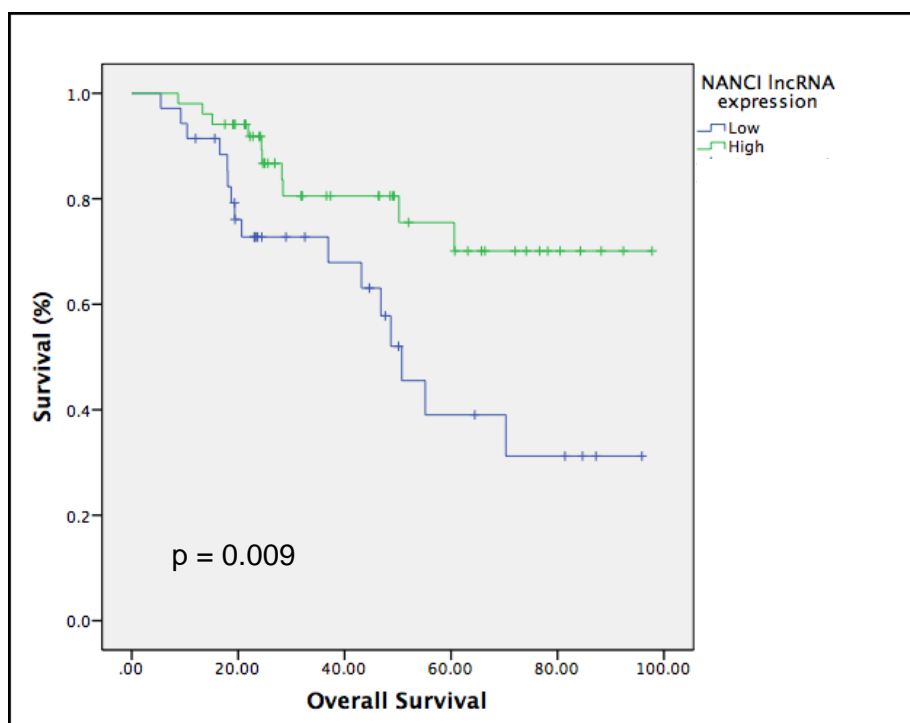
^d DLCO Carbon monoxide diffusing capacity.



Supplementary Figure 2. Kaplan Meier analysis of disease-free survival DFS according to NANCI expression levels 8th TNM edition.

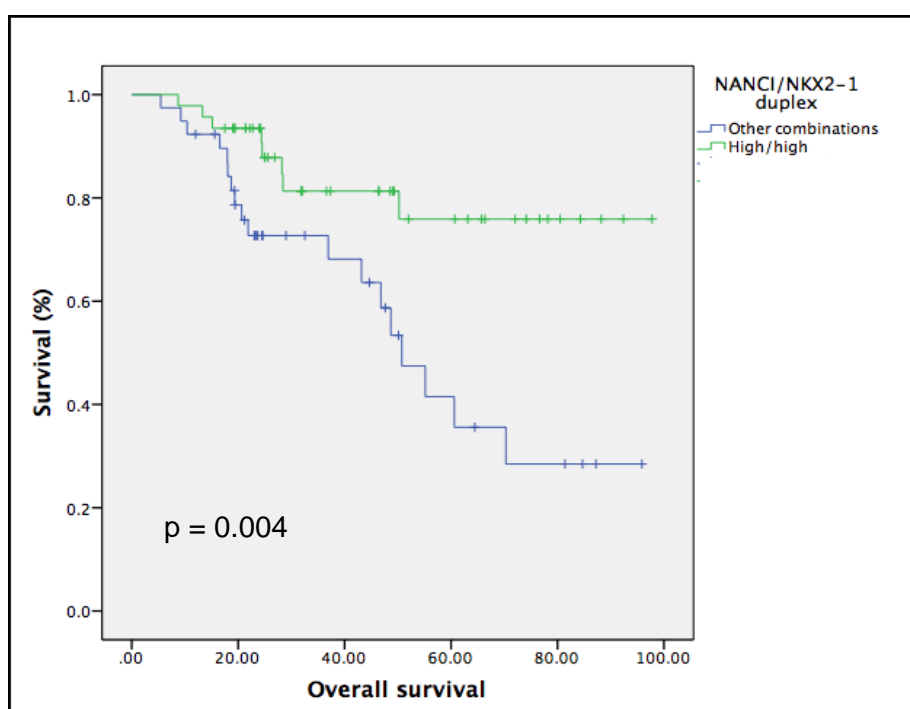


Supplementary Figure 3. Kaplan Meier analysis of disease-free survival DFS according to high/high NANCI/NKX2-1 duplex expression 8th TNM edition.



Supplementary figure 4. Kaplan Meier analysis of overall survival (OS)

according to NANCI expression 8th TNM edition.



Supplementary figure 5. Kaplan Meier analysis of overall survival (OS)

according to high NANCI/high NKX2-1 duplex expression 8th TNM edition.

Supplementary Table 2. Multivariate analysis for DFS and OS according 8th TNM edition.

<i>Disease free Survival</i>	<i>Hazard Ratio (95%CI)</i>	<i>p-value</i>
Male sex	3.063 (0.876-10.714)	0.080
Emphysema	1.810 (0.850-3.854)	0.124
High NNCI/High NKX2-1	0.488 (0.223-1.067)	0.072
<i>Overall Survival</i>	<i>Hazard Ratio (95%CI)</i>	<i>p-value</i>
Male sex	5.088(0.639-40.499)	0.124
Former/Current smoker	4.208 (0.339-52.158)	0.263
Emphysema	2.143 (0.846-5.425)	0.108
High NNCI/High NKX2-1	0.291 (0.112-0.759)	0.012