

## SUPPLEMENTARY TABLES

**Supplementary Table 3. FGFR3 somatic mutation distribution in different protein functional domains for tumors with FGFR3 mutations and all tumors together.**

	<b>ig: Immunoglobulin domain (54-110aa)</b>	<b>I-set: Immunoglobulin I-set domain (166-245aa)</b>	<b>I-set: Immunoglobulin I-set domain (260-356aa)</b>	<b>Pkinase_Tyr: Protein tyrosine kinase (472-748aa)</b>	<b>Others</b>	<b>Fusion</b>
Pan-cancer	9	9	20	54	100	42
BLCA	1	3	7	3	54	8
UCEC	1	2	1	11	9	
SKCM	5		2	10	4	1
COADREAD	1	3	1	8	5	
LUSC			1	1	7	7
HNSC			1	1	11	2
STAD	1		3	4	2	1
KIRP				4	3	2
LGG				1	1	5
CESC						6
GBM				3		3
PRAD			1	2		1
ESCA				1		2
LIHC		1				2
LUAD			1	1	1	
BRCA			1	1		
OV				1		1
PAAD			1	1		
KIRC				1		
LAML						1
MESO					1	
SARC					1	
UCS					1	

**Supplementary Table 4. The main bioinformatics tools used to analyze the role of FGFR3 in pan-cancer.**

<b>Database</b>	<b>Samples</b>	<b>URL</b>	<b>References</b>
cBioPortal	Tissues	<a href="http://cbioportal.org/">http://cbioportal.org/</a>	[58]
GTEX	Tissues	<a href="http://www.gtexportal.org/home/">http://www.gtexportal.org/home/</a>	[59]
TIMER2	Tissues	<a href="http://timer.cistrome.org/">http://timer.cistrome.org/</a>	[61]
GEPIA2	Tissues	<a href="http://gepia.cancer-pku.cn/">http://gepia.cancer-pku.cn/</a>	[62]
GSCALite	Tissues	<a href="http://bioinfo.life.hust.edu.cn/web/GSCALite/">http://bioinfo.life.hust.edu.cn/web/GSCALite/</a>	[63]
Kaplan-Meier Plotter	Tissues	<a href="http://kmplot.com/">http://kmplot.com/</a>	[64]