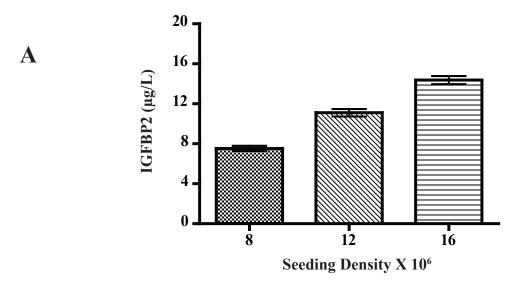
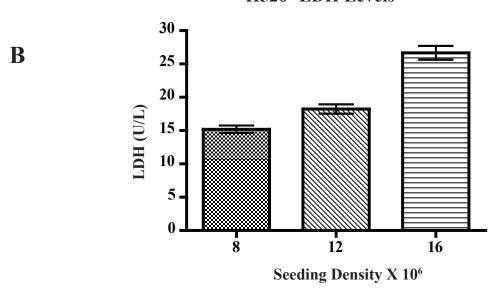
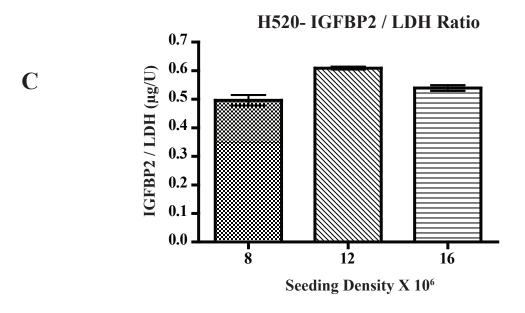
H520- IGFBP2 Levels

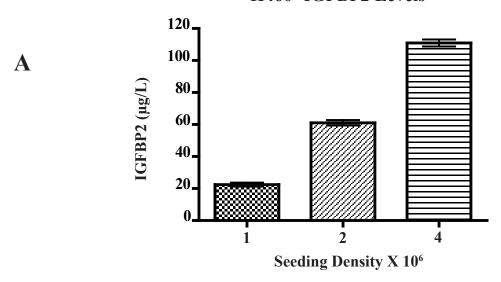


H520- LDH Levels

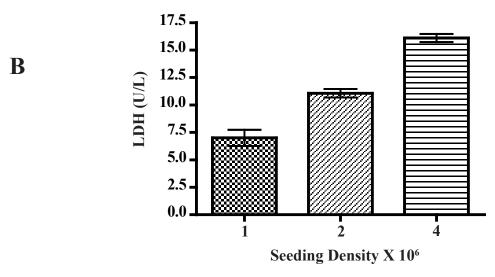


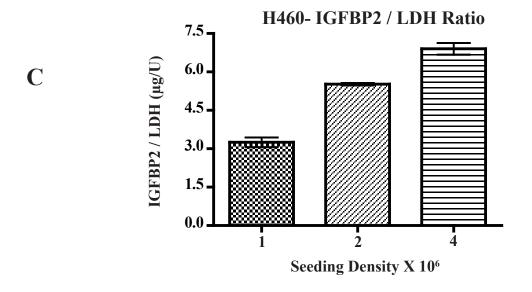


H460-IGFBP2 Levels

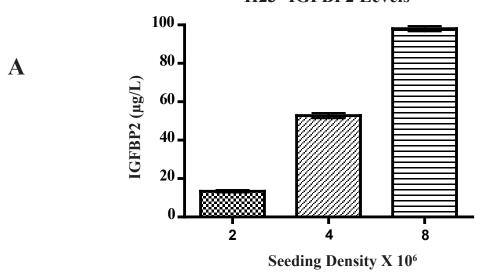




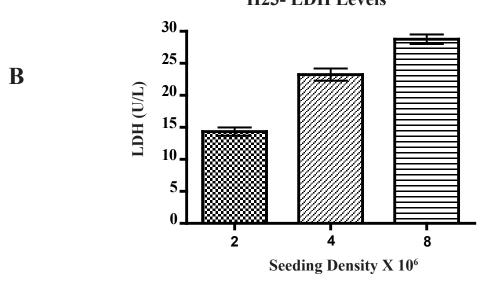




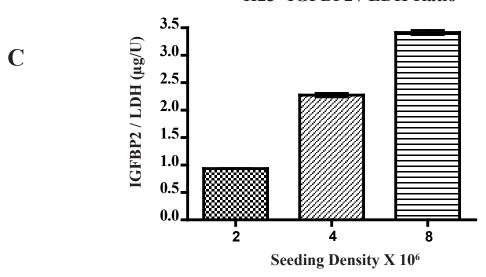
H23- IGFBP2 Levels



H23- LDH Levels

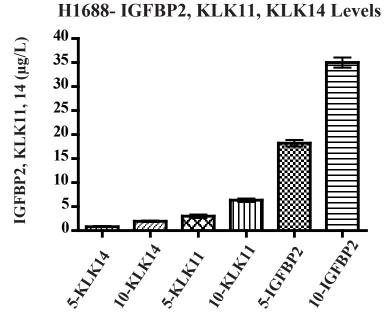


H23-IGFBP2 / LDH Ratio



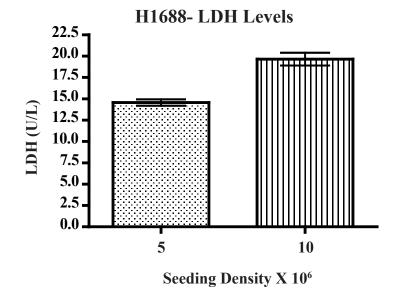


A



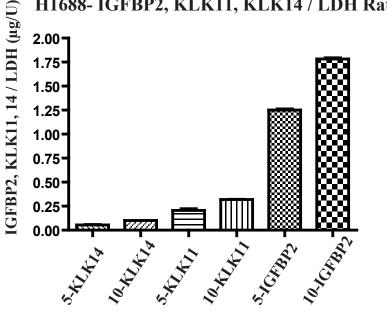
Seeding Density X 10⁶

B



H1688-IGFBP2, KLK11, KLK14 / LDH Ratio

C



Seeding Density X 10⁶

Supplementary Figure 5

A)

IPI00297284 (100%), 35137.1 Da

Gene_Symbol=IGFBP2 Insulin-like growth factor-binding protein 2 precursor 13 unique peptides, 48 unique spectra, 80 total spectra, 146/328 amino acids (45% coverage)

MLPRVGCPAL	PLPPPPLLPL	LPLLLLLGA	SGGGGGARAE	VLFRCPPCTP
ERLAACGPPP	VAPPAAVAAV	AGGARMPCAE	LVREPGCGCC	SVCARLEGEA
CGVYTPRCGQ	GLR CYPHPGS	ELPLQALVMG	EGTCEKRRDA	EYGASPEQVA
DNGDDHSEGG	LVENHVDSTM	NMLGGGGSAG	RKPLKSGMKE	LAVFREKVTE
QHRQMGKGGK	HHLGLEEPKK	L R P P P A R T P C	QQELDQVLER	I S T M R L P D E R
GPLEHLYSLH	IPNCDKHGLY	N L K Q C K M S L N	G Q R G E C W C V N	PNTGKLIQGA
PTIRGDPECH	LFYNEOOEAR	GVHTQRMQ		

B)

IPI00002818 (100%), 27465.9 Da

Gene_Symbol=KLK11 Isoform 1 of Kallikrein-11 precursor

7 unique peptides, 14 unique spectra, 14 total spectra, 101/250 amino acids (40% coverage)

MRILQLILLA	LATGLVGGET	R I I K G F E C K P	HSQPWQAALF	EKTRLLCGAT
L I A P R W L L T A	AHCLKPRYIV	HLGQHNLQKE	EGCEQTRTAT	ESFPHPGFNN
SLPNKDHRND	IML VK MASPV	SITWAVRPLT	LSSRCVTAGT	SCLISGWGST
SSPQLRLPHT	LRCANITIIE	HQKCENAYPG	NITDTMVCAS	VQEGGKDSCQ
GDSGGPLVCN	QSLQGIISWG	QDPCAITRKP	G V Y T K V C K Y V	DWIQETMKNN

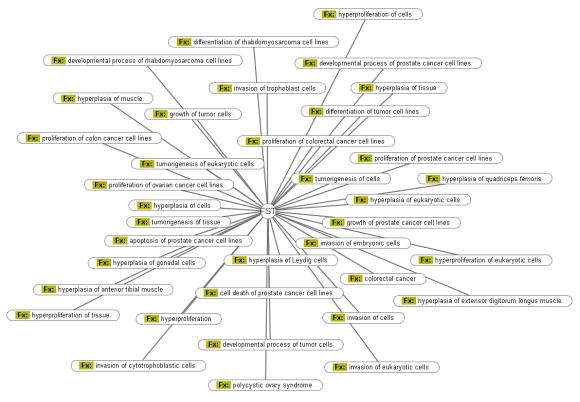
C)

IPI00793215 (100%), 29121.3 Da

Gene Symbol=KLK14 kallikrein 14 preproprotein

3 unique peptides, 3 unique spectra, 3 total spectra, 46/267 amino acids (17% coverage)

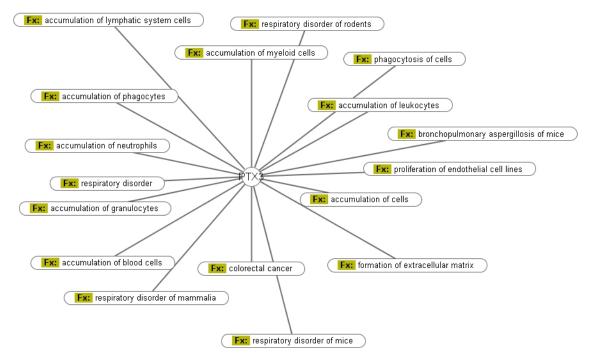
MSLRVLGSGT	WPSAPKMFLL	LTALQVLAIA	MTQSQEDENK	I I G G H T C T R S
SQPWQAALLA	GPR RRFLCGG	ALLSGQWVIT	AAHCGRPILQ	VALGKHNLRR
WEATQQVLRV	VRQVTHPNYN	SRTHDNDLML	LQLQQPARIG	R A V R P I E V T Q
ACASPGTSCR	VSGWGTISSP	IARYPASLQC	VNINISPDEV	CQKAYPRTIT
PGMVCAGVPQ	GGKDSCQGDS	GGPLVCR <mark>GQL</mark>	QGLVSWGMER	CALPGYPGVY
TNLCKYRSWI	EETMRDK			



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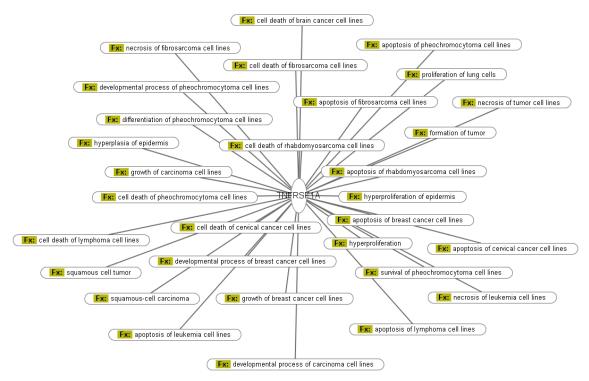
Supplementary figure 6

PTX3

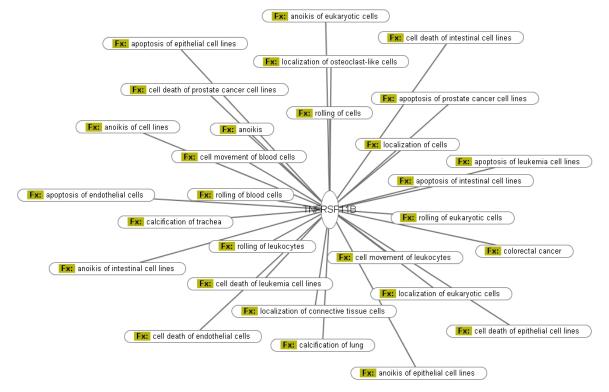


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Supplementary figure 7



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Supplementary Table 1. Clinical and pathological characteristics of lung cancer patients for Osteoprotegerin measurement by ELISA

	Controls	Cases
Smoking status		
Yes	07	17
No^1	17	08
x^2	01	
Gender		
Female	15	10
Male	10	15
Age		
Mean	42	62
SD	09	14
Stage		
III		03
IV		22
Histology ³		
ADC		08
SCC		06
BAC		01
LCC		01
Unspecified NSC	CLC	09

¹.< 100 cigarettes/lifetime.

². x, unknown.

³. ADC, adenocarcinoma; SCC, squamous cell carcinoma; BAC, bronchioloalveolar carcinoma; LCC, large cell carcinoma; NSCLC, non-small cell lung carcinoma.

Supplementary Table 2. Clinical and pathological characteristics of lung cancer patients for sTNF RI measurement by ELISA

		Controls	Cases
Smok	ing status		
	Yes	07	16
	No^1	14	09
	x^2	04	
Gend	er		
	Female	08	11
	Male	17	14
Age			
	Mean	36	62
	SD	08	11
Stage			
	III		04
	IV		20
	x^2		01
Histol	$\log y^3$		
	ADC		14
	SCC		04
	BAC		01
	Unspecified NSCLC		06

¹.< 100 cigarettes/lifetime.

². x, unknown.

³. ADC, adenocarcinoma; SCC, squamous cell carcinoma; BAC, bronchioloalveolar carcinoma; NSCLC, non-small cell lung carcinoma.

Supplementary Table 3. Clinical and pathological characteristics of lung cancer patients for Follistatin measurement by ELISA

	Controls	Cases
Smoking status		
Yes	07	17
No^1	17	08
x^2	01	
Gender		
Female	15	10
Male	10	15
Age		
Mean	42	62
SD	09	14
Stage		
III		02
IV		23
Histology ³		
ADC		08
SCC		06
LCC		01
Unspecified NSCLO	C	10

¹.< 100 cigarettes/lifetime.

². x, unknown.

³. ADC, adenocarcinoma; SCC, squamous cell carcinoma; LCC, large cell carcinoma; NSCLC, non-small cell lung carcinoma.

Supplementary Table 4. Clinical and pathological characteristics of lung cancer patients for ADAM-17 measurement by ELISA

	Controls	Cases
Smoking status		
Yes	04	15
No^1	16	06
x^2	01	
Gender		
Female	14	08
Male	07	13
Age		
Mean	41	61
SD	09	13
Stage		
III		03
IV		18
Histology ³		
ADC		07
SCC		06
BAC		01
LCC		01
Unspecified NSCLC		06

¹.< 100 cigarettes/lifetime.

². x, unknown.

³. ADC, adenocarcinoma; SCC, squamous cell carcinoma; BAC, bronchioloalveolar carcinoma; LCC, large cell carcinoma; NSCLC, non-small cell lung carcinoma.

Supplementary Table 5. Clinical and pathological characteristics of lung cancer patients for Pentraxin 3 by ELISA

		Controls	Cases
Smokii	ng status		
	Yes	08	19
	No ¹	15	06
	x^2	02	
Gende	er		
	Female	08	12
	Male	17	13
Age			
	Mean	34	64
	SD	09	10
Stage			
	III		05
	IV		19
	x^2		01
Histolo	ogy ³		
	ADC		10
	SCC		06
	Unspecified NSCLC		09

¹.< 100 cigarettes/lifetime.

². x, unknown.

³. ADC, adenocarcinoma; SCC, squamous cell carcinoma; NSCLC, non-small cell lung carcinoma.

Supplementary Figures

Supplementary Figure 1: Optimization of seeding density for H520.

A, IGFBP2 levels measured in CM at different seeding densities (8, 12 and 16 million cells); B, LDH levels measured in CM at different seeding densities (8, 12 and 16 million cells); C, IGFBP2 / LDH ratio calculated at different seeding densities (8, 12 and 16 million cells).

Supplementary Figure 2: Optimization of seeding density for H460.

A, IGFBP2 levels measured in CM at different seeding densities (1, 2 and 4 million cells); B, LDH levels measured in CM at different seeding densities (1, 2 and 4 million cells); C, IGFBP2 / LDH ratio calculated at different seeding densities (1, 2 and 4 million cells).

Supplementary Figure 3: Optimization of seeding density for H23.

A, IGFBP2 levels measured in CM at different seeding densities (2, 4 and 8 million cells); B, LDH levels measured in CM at different seeding densities (2, 4 and 8 million cells); C, IGFBP2 / LDH ratio calculated at different seeding densities (2, 4 and 8 million cells).

Supplementary Figure 4: Optimization of seeding density for H1688.

A, IGFBP2, KLK11 and KLK14 levels measured in CM at different seeding densities (5 and 10 million cells); B, LDH levels measured in CM at different seeding densities (5 and 10 million cells); C, IGFBP2, KLK11, KLK14 / LDH ratio calculated at different seeding densities (5 and 10 million cells).

Supplementary Figure 5: Identification of internal control proteins by LC MS/MS.

H1688 expresses IGFBP2 and kallikrein-related peptidases 11 and 14 (KLK11 and KLK14) in concentrations ranging from approximately 2-35 μ g/L, as measured by ELISA. The sequences of the respective proteins are indicated (A) IGFBP2, (B) KLK11, (C) KLK14. The peptides identified by MS in the CM of H1688 are highlighted in yellow.

Supplementary Figure 6: Molecular functions related to diseases associated with Follistatin.

The web diagram generated through IPA software depicts the biological functions that Follistatin is associated with, in the context of disease.

Supplementary Figure 7: Molecular functions related to diseases associated with Pentraxin 3 (PTX3).

The web diagram generated through IPA software depicts the biological functions that PTX3 is associated with, in the context of disease.

Supplementary Figure 8: Molecular functions related to diseases associated with TNFRSF1A.

The web diagram generated through IPA software depicts the biological functions that TNFRSF1A is associated with, in the context of disease.

Supplementary Figure 9: Molecular functions related to diseases associated with Osteoprotegerin (TNFRSF11B).

The web diagram generated through IPA software depicts the biological functions that Osteoprotegerin is associated with, in the context of disease.