

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

GENOMIC-BASED MOLECULAR MARKERS IN CERVICAL CANCER FOR DISTAL PROGRESSION AND TREATMENT FAILURE

Carlos Pérez-Plasencia, PhD



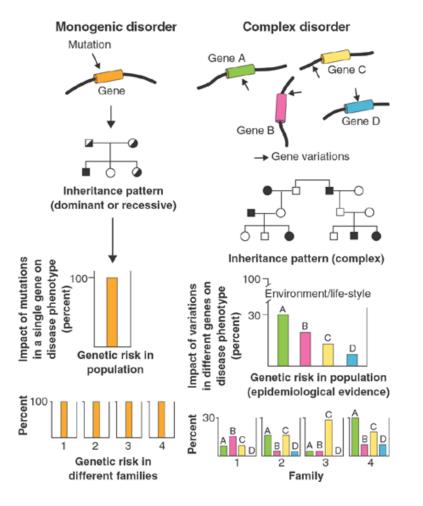




GYNECOLOGIC CANCER INTERGROUP

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

Cancer is a Complex Disease

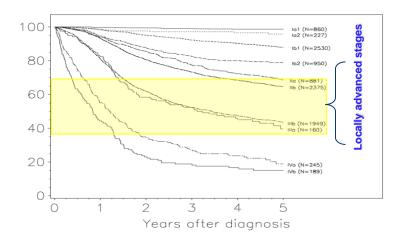


0

GYNECOLOGIC CANCER INTERGROUP

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

Overall Survival for Locally Advanced Cervical Cancer (LACC) Patients



Stage	Patients (n)	Mean age (yr)	Overall survival (%) at					Hazards ratio ^a
			1 year	2 years	3 years	4 years	5 years	(95% CI)
Ial	860	44.3	99.8	99.5	99.1	98.7	98.7	0.1 (0.1-0.2)
Ia2	227	45.5	98.2	97.7	97.2	96.7	95.9	0.3 (0.1-0.5)
Ib1	2530	48.3	98.7	95.1	92.3	90.4	ر 88.0	Reference
Ib2	950	47.4	94.8	87.8	82.6	79.9	78.8 }	
IIa	881	56.5	94.1	85.6	77.6	72.3	68.8	2.4 (2.1-2.8)
IIb	2375	54.1	93.3	80.7	73.4	68.5	64.7	2.9 (2.6-3.3)
IIIa	160	60.1	82.8	58.8	52.6	45.3	40.4	5.2 (4.0-6.6)
IIIb	1949	56.4	81.5	62.2	52.6	47.6	43.3	5.7 (5.0-6.4)
IVa	245	60.0	56.1	35.6	27.9	24.1	19.5	12.6 (10.5-15.1)
IVb	189	56.6	45.8	23.9	19.6	17.2	15.0	19.2 (15.8-23.4)

Carcinoma of the cervix uteri: patients treated in 1996-98. Survival by FIGO stage, n=10366

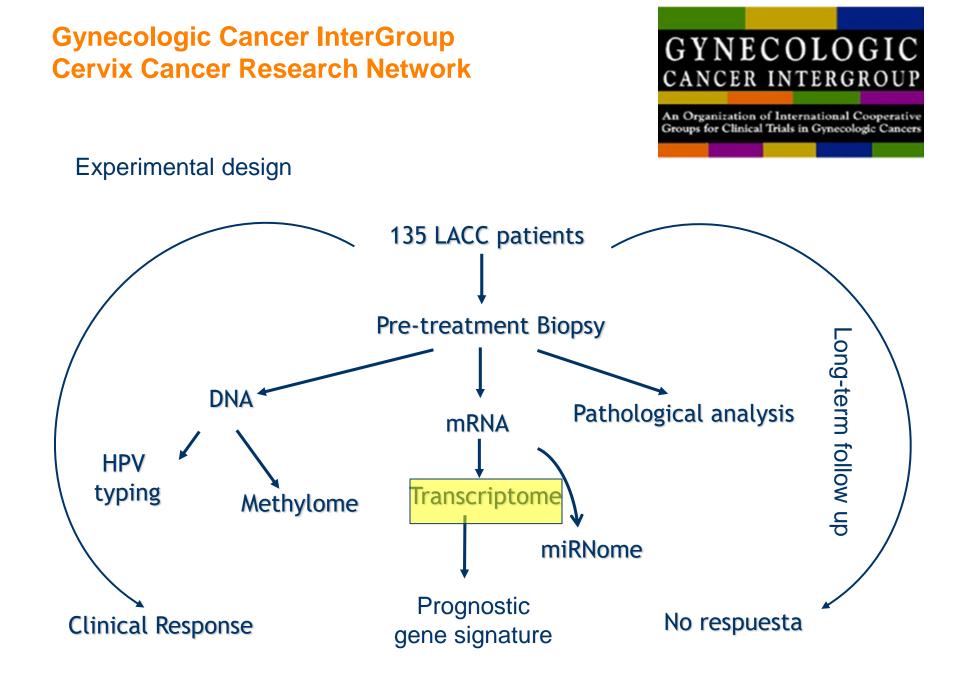
Intl J Gynaecol Obstet, 2003; 83(suppl1):41-78



An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

Aim of the Study

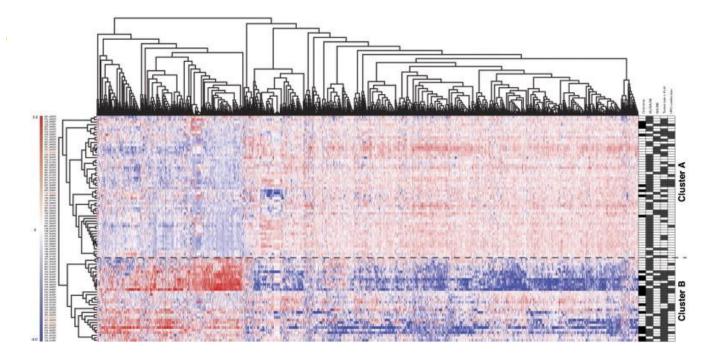
By means of Transcriptome analysis to search for a prognostic gene signature able to discriminate patients who do not respond to the conventional treatment employed to treat LACC



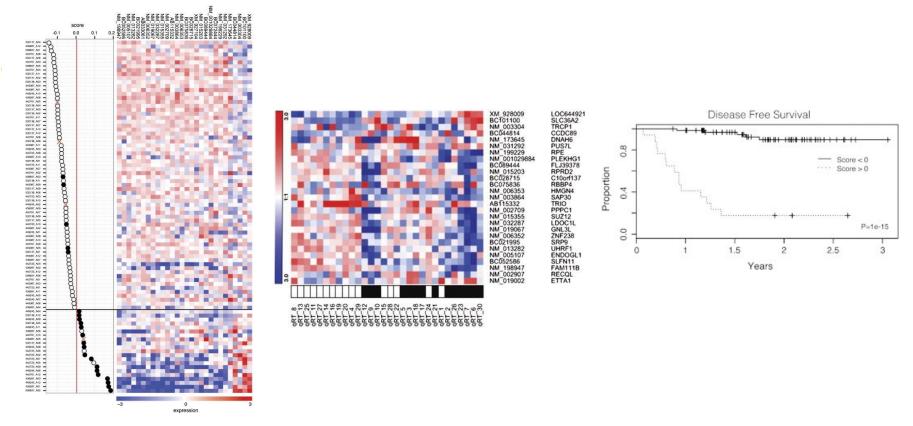
GYNECOLOGIC CANCER INTERGROUP

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

Supervised two-dimensional cluster analysis of 89 CC tumor profiles.



Predictor genes are clustered based on their similarities across LACC tumors.



Cervix Cancer Education Symposium, January 2017, Mexico

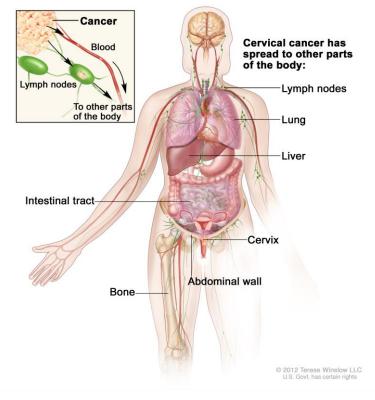
GYNECOLOGIC CANCER INTERGROUP

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

GYNECOLOGIC CANCER INTERGROUP

An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

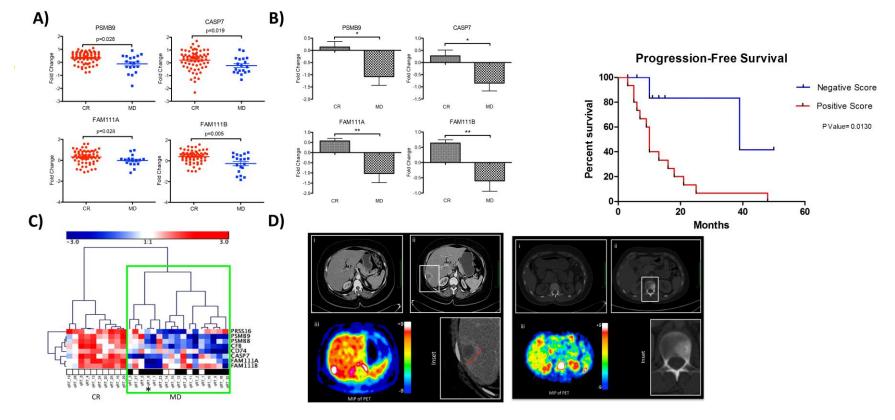
Metastasis pattern of Cervical Cancer



GYNECOLOGIC CANCER INTERGROUP

An Organization of International Cooperative

Eight degradome related-genes are able to distinguish Groups for Clinical Trials in Gynecologic Cancers CCLA ptients who will develop distal progression.





An Organization of International Cooperative Groups for Clinical Trials in Gynecologic Cancers

Concluding remarks

Transcriptome analysis allowed us to identify genes with the ability to distinguish clinical responses in LACC patients.

We are extending our study to validate both gene signatures.