

**CELL COUNT DIFFERENTIALS BY CYTOMORPHOLOGY AND NEXT-GENERATION FLOW CYTOMETRY IN BONE MARROW ASPIRATE: AN EVIDENCE-BASED APPROACH**

**SUPPLEMENTARY MATERIAL**

**Table S1. Monoclonal antibodies reagents used for the immunophenotypic characterization.**

<b>Mab</b>	<b>Conjugates</b>
CD2	FITC
HLA-DR	FITC
CD11b	FITC
CD14	PE
CD34	PE
CD13PE	PE
CD4	PerCP-Cy5.5
CD10	PerCP-Cy5.5
HLA-DR	PerCP-Cy5.5
CD7	APC
CD33	APC
CD34	APC
CD56	PE-CY7
CD19	PE-CY7
CD117	PE-CY7
CD8	APC-H7
CD38	APC-H7
CD71	APC-H7
CD3	V450
CD20	V450

CD15	V450
CD45	V500

Abbreviations: AF: alexa fluor; APC: allophycocyanin; BB: brilliant blue 515; BV: brilliant violet, FITC: fluorescein isothiocyanate; Mab: monoclonal antibodies; PE: phycoerythrin; PerCP-Cy5.5: peridinin chlorophyll protein-cyanine 5.5.

**Table S2. Final diagnosis in the complete set and the control group, %.**

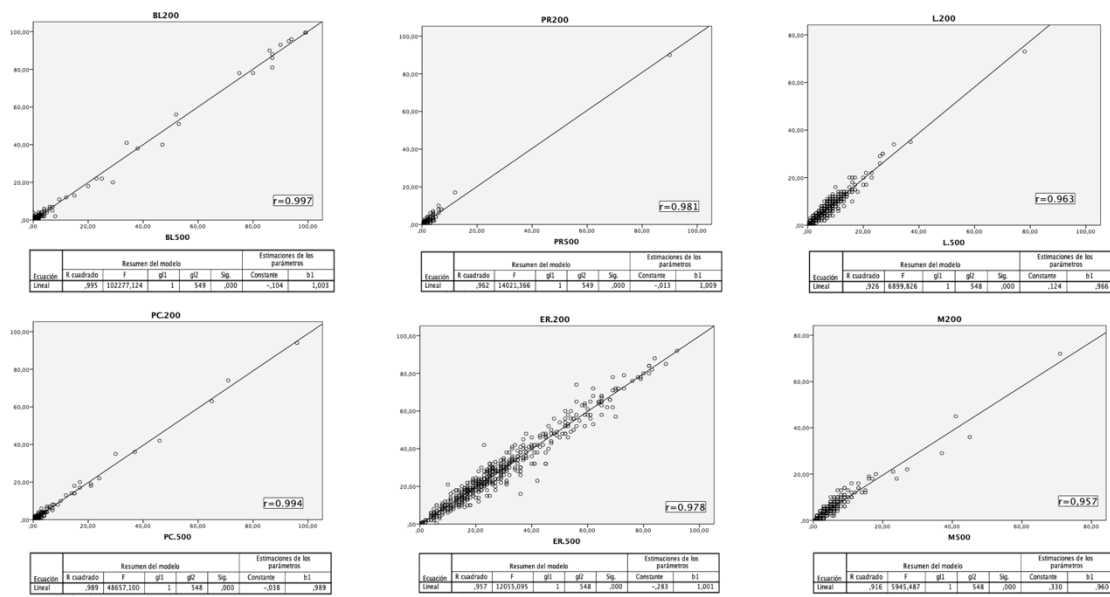
<b>DISEASE</b>	<b>COMPLETE SET n=660</b>	<b>CONTROL GROUP n=122</b>
AML	17.6	25.4
MM	15.6	24.6*
MDS	15.5	4.1
LYM	14.2	16.4
MGUS	10.5	*
ALL	7.6	5.7
CMPD	4.5	7.4
OTHER	14.5	16.4

Abbreviations: ALL: acute myeloid leukemia; AML: acute myeloid leukemia; CMPD: chronic myeloproliferative disease; LYM: lymphomas; MGUS: monoclonal gammopathy of uncertain significance; MM: multiple myeloma. \*this percentage is presented together with MM in the control group.

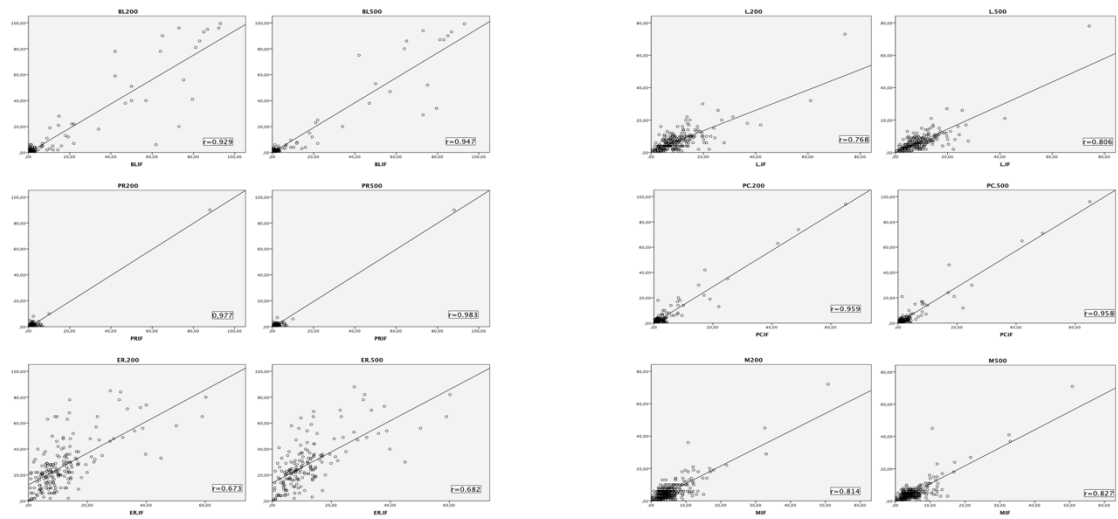
**Table S3. Comparison by Regression Linear analysis between BMCS 200-cell and 500-cell DCC versus IP FDC results for the complete set according to cell type\***

<b>CELL TYPE</b>	<b>n</b>	<b>R<sup>2</sup></b>	<b>Slope</b>	<b>Intercept</b>
Blast 200	424	0.863	0,939	-,051
Blast 500	424	0.897	0,960	-,033
Promyelocyte 200	102	0.955	1,007	-,763
Promyelocyte 500	102	0.966	1,006	-,675
Erythroblast 200	189	0.453	1,221	12,401
Erythroblast 500	189	0.465	1,201	13,774
Lymphocyte 200	235	0.590	0,628	,895
Lymphocyte 500	235	0.650	0,726	-,093
Plasma cell 200	343	0.921	1,436	-,026
Plasma cell 500	343	0.917	1,427	-,002
Monocyte 200	390	0.662	1,081	-,063
Monocyte 500	390	0.683	1,115	-,471

\*All associates p values are significant at <.000



**Figure S1. Linear Regression analysis for the complete set, 200-cell vs 500-cell DCC**



**Figure S2. Linear Regression analysis for the complete set comparison between 200-cell and 500-cell DCC and immunophenotype**