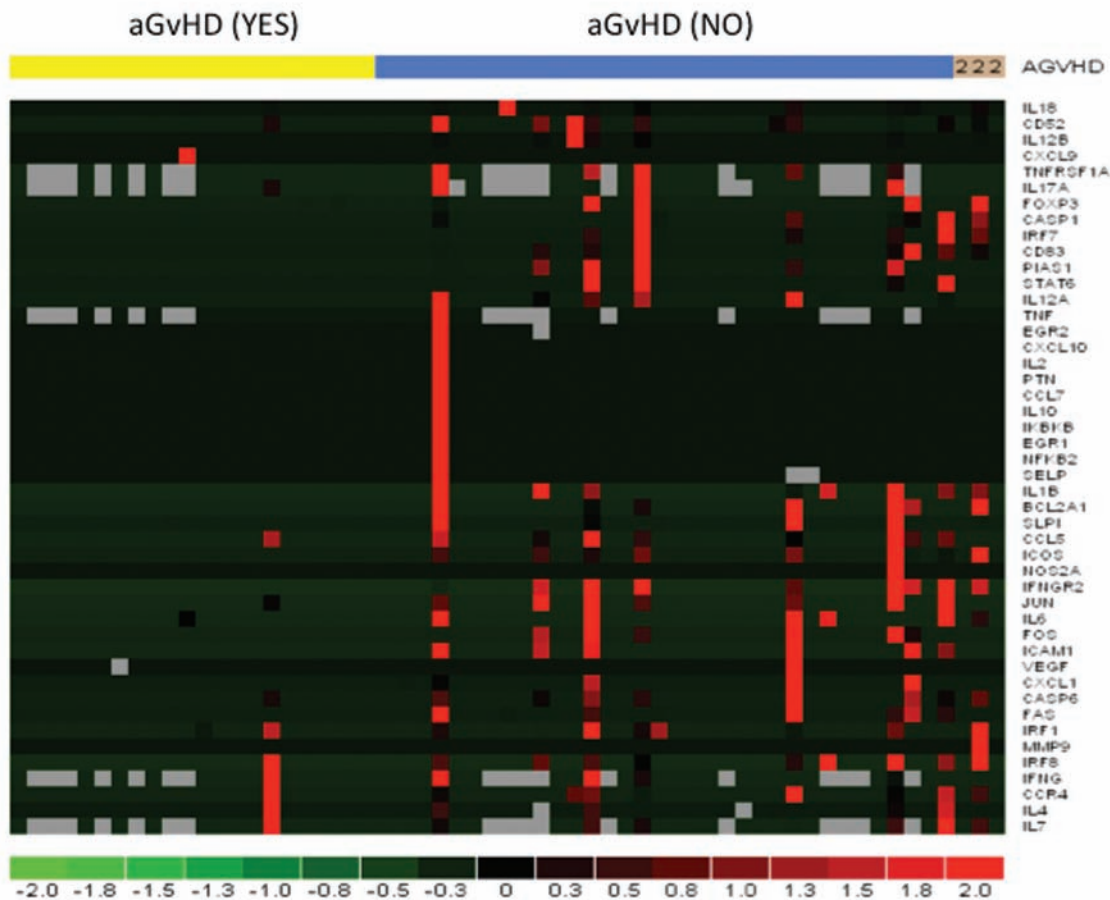


## A molecular and computational diagnostic approach identifies FOXP3, ICOS, CD52 and CASP1 as the most informative biomarkers in acute graft-versus-host disease

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Online Supplementary Figure S1. Heatmap depicting the expression level of selected genes for each peripheral blood cell sample from allogeneic HSCT patients with (YES) or without (NO) aGvHD. Green indicates low expression whereas yellow indicates high expression.

**Online Supplementary Table S1. Candidate genes selected from the published literature for the gene expression study.**

<b>ID</b>	<b>gene</b>	<b>Function description</b>
18S-Hs99999901_s1		eukaryotic 18S rRNA
SLPI-Hs00268204_m1		secretory leukocyte peptidase inhibitor
CCR4-Hs00356611_s1		chemokine (C-C motif) receptor 4
PIAS1-Hs00184008_m1		protein inhibitor of activated STAT, 1
IKBKB-Hs00826074_m1		inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
EGR1-Hs00152928_m1		early growth response 1
CCL7-Hs00171147_m1		chemokine (C-C motif) ligand 7
IL12A-Hs00168405_m1		interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)
NFKB2-Hs00174517_m1		nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
JUN-Hs99999141_s1		jun oncogene
IRF7-Hs00242190_g1		interferon regulatory factor 7
FOS-Hs00170630_m1		v-fos FBJ murine osteosarcoma viral oncogene homolog
IL12B-Hs00233688_m1		interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)
VEGFA-Hs00900054_m1		vascular endothelial growth factor A
PTN-Hs00383235_m1		pleiotrophin
FOXP3-Hs00203958_m1		forkhead box P3
MMP9-Hs00234579_m1		matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
CXCL10-Hs00171042_m1		chemokine (C-X-C motif) ligand 10
STAT6-Hs00598618_m1		signal transducer and activator of transcription 6, interleukin-4 induced
EGR2-Hs00166165_m1		early growth response 2 (Krox-20 homolog, Drosophila)
BCL2A1-Hs00187845_m1		BCL2-related protein A1
SERPINB3;SERPINB4-Hs00741313_g1		serpin peptidase inhibitor, clade B (ovalbumin), member 3;serpin peptidase inhibitor, clade B (ovalbumin), member 4
ICOS-Hs00359999_m1		inducible T-cell co-stimulator
CD83-Hs00188486_m1		CD83 molecule
CXCL9-Hs00171065_m1		chemokine (C-X-C motif) ligand 9
CCL5-Hs00174575_m1		chemokine (C-C motif) ligand 5
IL1B-Hs00174097_m1		interleukin 1, beta
IRF1-Hs00233698_m1		interferon regulatory factor 1
IL4-Hs00174122_m1		interleukin 4
IL18-Hs00155517_m1		interleukin 18 (interferon-gamma-inducing factor)
CD52-Hs00174349_m1		CD52 molecule
IL6-Hs00174131_m1		interleukin 6 (interferon, beta 2)
IFNGR2-Hs00194264_m1		interferon gamma receptor 2 (interferon gamma transducer 1)
IRF8-Hs00609879_m1		interferon regulatory factor 8
CXCL1-Hs00605382_gH		chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
SELP-Hs00174583_m1		selectin P (granule membrane protein 140kDa, antigen CD62)
NOS2-Hs00167257_m1		nitric oxide synthase 2, inducible
IL2-Hs00174114_m1		interleukin 2
IL10-Hs00174086_m1		interleukin 10
FAS-Hs00236330_m1		Fas (TNF receptor superfamily, member 6)
ICAM1-Hs00164932_m1		intercellular adhesion molecule 1
CASP6-Hs00154246_m1		caspase 6, apoptosis-related cysteine peptidase
IL17A-Hs00936345_m1		interleukin 17A
IL7-Hs00174202_m1		interleukin 7
TNF-Hs00174128_m1		tumor necrosis factor (TNF superfamily, member 2)
IFNG-Hs99999041_m1		interferon gamma
TNFRSF1A-Hs00236902_m1		tumor necrosis factor receptor superfamily, member 1A
CASP1-Hs00354836_m1		caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)