

Stereotyped patterns of B-cell receptor in splenic marginal zone lymphoma

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Online Supplementary Table S1. Categories of 4,414 productive, non-redundant HCDR3 sequences used for cluster analysis. A collection of 6,245 IGHV-D-J sequences was retrieved from public nucleotide databases (EMBL, NCBI, IMGT/LIGM-DB; 5,205 sequences) and from our in-house databases (1,040 sequences) and subsequently analyzed by IMGT tools. Redundant and non-functional sequences, as well as sequences from clonally related cells, were excluded to obtain a final database of 4,414 unique HCDR3 amino acid sequences available for the analysis.

Category	N.
CLL	3,197
B-cell malignancies	1,217
SMZL ^{1,6}	86
MZL excluded SMZL	65
BL	47
DLBCL	60
FL	121
MCL	55
NHL nos	80
HL	160
MM	221
HIV-related NHL	225
PTLD	97

NHL: non-Hodgkin's lymphomas, SMZL: splenic marginal zone lymphoma, MZL: marginal zone lymphoma, BL: Burkitt's lymphoma, DLBCL: diffuse large B-cell lymphoma, FL: follicular lymphoma, MCL: mantle cell lymphoma, HL: Hodgkin's lymphoma, MM: multiple myeloma, PTLD: posttransplant lymphoproliferative disorders

Online Supplementary Table S2. Clinical features of 133 patients with splenic marginal zone lymphoma.

Clinical feature	N.	%	N. not available
Male/female	54/79	41/59	0
Age > 60 years	88	66	0
Bone marrow involvement	128	96	0
Leukemic disease	90	68	0
Villous lymphocytes	59	44	0
Villous lymphocytes > 10%	35	26	0
B symptoms	21	16	0
Hemoglobin < 12 g/dl	48	44	25
Platelet count < 100,000/ μ L	24	22	25
LDH level higher than normal	39	32	13
Albumin < 3.5 g/dL	7	7	41
Serum monoclonal component	42	39	26
Autoimmune background	20	18	24
HCV serology positive	26	20	6
SMZL IIL score ⁷	91	-	42
Low risk	42	46	
Intermediate risk	28	31	
High risk	21	23	

Online Supplementary Table S3. See file Excel attached.

Online Supplementary Table S4. HCV serology according to groups of HCDR3 clustering.

HCDR3 cluster groups	N. of HCV-negative cases (%)	N. of HCV-positive cases (%)
SMZL cluster	9 (100)	0
CLL cluster	5 (100)	0
NHL cluster	1 (33)	2 (67)
Non-clustered cases	86 (78)	24 (22)

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