

Remission maintenance in acute myeloid leukemia: impact of functional histamine H₂ receptors expressed by leukemic cells

Johan Aurelius,^{1,2} Anna Martner,^{1,2} Mats Brune,³ Lars Palmqvist,⁴ Markus Hansson,⁵ Kristoffer Hellstrand,^{1,2} and Fredrik B. Thorén^{1,2}

¹Sahlgrenska Cancer Center, University of Gothenburg, Sweden; Departments of ²Infectious Diseases, ³Hematology, and ⁴Clinical Chemistry and Transfusion Medicine, The Sahlgrenska Academy, University of Gothenburg, Sweden; and ⁵Department of Hematology, Skåne University Hospital, Sweden

Citation: Aurelius J, Martner A, Brune M, Palmqvist L, Hansson M, Hellstrand K and Thorén FB. Remission maintenance in acute myeloid leukemia: impact of functional histamine H₂ receptors expressed by leukemic cells. *Haematologica* 2012;97(12):1904-1908. doi:10.3324/haematol.2012.066399

Online Supplementary Appendix

Antibodies and reagents

The following anti-human monoclonal antibodies were purchased from BD Biosciences, San Diego, CA, USA: anti-CD33 (clone P67.6, PE-Cy7), anti-CD34 (clone 8G12, PE), anti-CD56 (clone NCAM16, PE-Cy7, APC), anti-CD14 (clone M ϕ P9, APC-Cy7), anti CD15 (clone HI98, APC), anti CD4 (clone SK3, FITC), anti CD8 (clone SK1, FITC). Anti-flavocytochrome b558 (gp91phox) (clone 7D5, FITC) and anti-histamine H₂ receptor (polyclonal rabbit IgG) were from MBL International (Woburn, MA, USA). CD14 (clone T \ddot{u} K4, Pacific blue) and goat anti-rabbit (PE-Cy5.5) was from Invitrogen. The following compounds were used: histamine dihydrochloride (HDC), isoluminol and formyl-methionyl-leucyl phenylalanine (fMLF) from SigmaAldrich (St. Louis, MO, USA); Ficoll-Hypaque, Lymphoprep (Nycomed, Oslo, Norway); live/dead fixable violet dead cell stain (Invitrogen); horseradish peroxidase (Boehringer-Mannheim, Mannheim, Germany); ranitidine (GlaxoSmithKline, Solna, Sweden).

Online Supplementary Table S1. Characteristics of blood and bone marrow samples from newly diagnosed acute myeloid leukemia patients.

Pat.	FAB	Age	Sex	Sample
1	M1	77	M	PBMC ^a
2	M2	62	F	PBMC
3	M2	42	F	PBMC
4	M2	53	M	PBMC
5	M4	61	M	PBMC
6	M4	23	M	PBMC
7	M4	77	M	PBMC
8	M4	60	F	PBMC
9	M4	48	F	PBMC
10	M5	67	F	PBMC
11	M1	67	M	BM ^b
12	M1	21	F	BM
13	M1	63	F	BM
14	M1	69	F	BM
15	M1	63	F	BM
16	M2	65	M	BM
17	M2	66	M	BM
18	M2	65	M	BM
19	M2	39	M	BM
20	M2	75	M	BM
21	M4	73	M	BM
22	M4	64	M	BM
23	M4	69	M	BM
24	M4	77	F	BM
25	M4	77	F	BM
26	M5b	34	F	BM

^aPeripheral blood mononuclear cells; ^bbone marrow.