

**National Myelodysplastic Syndromes (MDS) Study (NCT02775383):
Sample Type Annotations**

Sample Type	Source	Collection tube	Banking procedure	Storage Medium	Standard Aliquot Size
Plasma	Bone marrow	Green top, sodium heparin	Centrifugation	None	250 ul
Bone marrow mononuclear cells (BMMNCs)	Bone marrow	Green top, sodium heparin	Ficoll	FBS/DMSO	5e6 cells
CD34+ cells	Bone marrow	Green top, sodium heparin	Ficoll >> CD34 cell enrichment	FBS/DMSO	median = 1.85e5 cells
MNC less CD34 cells (Lin+ cells)	Bone marrow	Green top, sodium heparin	Ficoll >> CD34 cell enrichment	FBS/DMSO	median = 2.94e7 cells
MNC less CD34 cells (Lin-/CD34- cells)	Bone marrow	Green top, sodium heparin	Ficoll >> CD34 cell enrichment	FBS/DMSO	median = 8.32e5 cells
Plasma	Bone marrow	Lavender top, EDTA	Centrifugation	None	250 ul
Cell pellet	Bone marrow	Lavender top, EDTA	RBC lysis	None	1e5 - 5e6 cells
Bone marrow genomic DNA	Bone marrow	Lavender top, EDTA	RBC lysis >> DNA extraction from cell pellet	Buffer ATL (10 mM Tris, 0.1 mM EDTA)	500 ng
Serum	Peripheral blood	Red top, no-additive	Centrifugation	None	250 ul
Peripheral Blood Mononuclear Cells (PBMCs)	Peripheral blood	Green top, sodium heparin	Ficoll	FBS/DMSO	5e6 cells
PAXgene Blood RNA tubes (10 ml)	Peripheral blood	PAXgene Blood RNA tube	Minus 80 freezer >> RNA extraction upon request	None	10 ml
Peripheral Blood genomic DNA	Peripheral blood	PAXgene Blood DNA tube	DNA extraction from PAXgene Blood DNA tube	Buffer ATL (10 mM Tris, 0.1 mM EDTA)	500 ng
Buccal cell genomic DNA	Buccal cells	Buccal swab	DNA extraction from buccal cells	Buffer ATL (10 mM Tris, 0.1 mM EDTA)	500 ng
Eyebrow hair genomic DNA	Eyebrow hair follicles	Microfuge tube	DNA extraction from eyebrow hair follicles	Buffer ATL (10 mM Tris, 0.1 mM EDTA)	500 ng