ALTERNATIVE - Bone marrow immunophenotyping ALTMGP_BMI_001

Parameters and Metadata

ALTERNATIVE - Pre-pro B cells (Hardy fraction A) - % of B220+ ALTMGP_BMI_001_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pre_pro_b_cells_hardy_fraction_a_of_b220

ALTERNATIVE - Pro-B cells (Hardy fractions B and C) - % of B220+ ALTMGP_BMI_002_001 | v1.2

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pro_b_cells_hardy_fractions_b_and_c_of_b220

ALTERNATIVE - Pro-B cells (Hardy fraction B) - % of B220+ ALTMGP_BMI_003_001 | v1.2

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pro_b_cells_hardy_fraction_b_of_b220

ALTERNATIVE - Pro-B cells (Hardy fraction C) - % of B220+ ALTMGP_BMI_004_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pro_b_cells_hardy_fraction_c_of_b220

ALTERNATIVE - Pre-B cells (Hardy fraction D) - % of B220+ ALTMGP_BMI_005_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pre_b_cells_hardy_fraction_d_of_b220

ALTERNATIVE - Immature B cells (Hardy fraction E) - % of B220+ ALTMGP_BMI_006_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - immature_b_cells_hardy_fraction_e_of_b220

ALTERNATIVE - Mature B cells (Hardy fraction F) - % of B220+ ALTMGP_BMI_007_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - mature_b_cells_hardy_fraction_f_of_b220

ALTERNATIVE - Pre-pro B cells (Hardy fraction A) - % of CD45+ ALTMGP_BMI_008_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pre_pro_b_cells_hardy_fraction_a_of_cd45

ALTERNATIVE - Pro-B cells (Hardy fractions B and C) - % of CD45 ALTMGP_BMI_009_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pro_b_cells_hardy_fractions_b_and_c_of_cd45

ALTERNATIVE - Pro-B cells (Hardy fraction B) - % of CD45+ ALTMGP_BMI_010_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pro_b_cells_hardy_fraction_b_of_cd45

ALTERNATIVE - Pro-B cells (Hardy fraction C) - % of CD45+ ALTMGP_BMI_011_001 | v1.1

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pro_b_cells_hardy_fraction_c_of_cd45

ALTERNATIVE - Pre-B cells (Hardy fraction D) - % of CD45+ ALTMGP_BMI_012_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - pre_b_cells_hardy_fraction_d_of_cd45

ALTERNATIVE - Immature B cells (Hardy fraction E) - % of CD45+ ALTMGP_BMI_013_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - immature_b_cells_hardy_fraction_e_of_cd45

ALTERNATIVE - Mature B cells (Hardy fraction F) - % of CD45+ ALTMGP_BMI_014_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - mature_b_cells_hardy_fraction_f_of_cd45

ALTERNATIVE - Total B cells - % of CD45+ ALTMGP_BMI_015_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - total_b_cell_precursors_of_cd45

ALTERNATIVE - Granulocytes - % of CD45+ ALTMGP_BMI_016_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - granulocyte_precursors_of_cd45

ALTERNATIVE - Myeloid cells - % of CD45+ ALTMGP_BMI_017_0
01 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - myeloid_precursors_of_cd45

ALTERNATIVE - Plasma cells - % of CD45+ ALTMGP_BMI_018_0
01 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - plasma_cells_of_cd45

ALTERNATIVE - T cells - % of CD45+ ALTMGP_BMI_019_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - t_cells_of_cd45

ALTERNATIVE - NK cell - % of CD45+ ALTMGP_BMI_020_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Unit Measured: %

Description: ALTERNATIVE - nk_cell_precursors_of_cd45

ALTERNATIVE - Pre-pro B cells (Hardy fraction A) - cell count ALTMGP_BMI_021_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - pre_pro_b_cells_hardy_fraction_a_cell_count

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ALTERNATIVE - Pro-B cells (Hardy fractions B and C) - cell count ALTMGP_BMI_022_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - pro_b_cells_hardy_fractions_b_and_c_cell_count

---

ALTERNATIVE - Pro-B cells (Hardy fraction B) - cell count

ALTMGP_BMI_023_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - pro_b_cells_hardy_fraction_b_cell_count

---

ALTERNATIVE - Pro-B cells (Hardy fraction C) - cell count

ALTMGP_BMI_024_001 | v1.1

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: ALTERNATIVE - pro_b_cells_hardy_fraction_c_cell_count

---

ALTERNATIVE - Pre-B cells (Hardy fraction D) - cell count

ALTMGP_BMI_025_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - pre_b_cells_hardy_fraction_d_cell_count

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ALTERNATIVE - Immature B cells (Hardy fraction E) - cell count ALTMGP_BMI_026_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - immature_b_cells_hardy_fraction_e_cell_count

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ALTERNATIVE - Mature B cells (Hardy fraction F) - cell count ALTMGP_BMI_027_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - mature_b_cells_hardy_fraction_f_cell_count

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ALTERNATIVE - Total B cells - cell count ALTMGP_BMI_028_001 | v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - total_b_cell_precursors_cell_count

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ALTERNATIVE - Granulocytes - cell count ALTMGP_BMI_029_001

| v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - granulocyte_precursors_cell_count

ALTERNATIVE - Myeloid cells - cell count ALTMGP_BMI_030_001

| v1.1

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - myeloid_precursors_cell_count

ALTERNATIVE - Plasma cells - cell count ALTMGP_BMI_031_001

| v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - plasma_cells_cell_count

ALTERNATIVE - T cells - cell count ALTMGP_BMI_032_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - t_cells_cell_count

ALTERNATIVE - NK cells - cell count ALTMGP_BMI_033_001 | v1.1
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - nk_cell_precursors_cell_count

ALTERNATIVE - BM panel singlets cell count ALTMGP_BMI_034_001 | v1.0
simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - bm_panel_singlets_cell_count

ALTERNATIVE - BM panel live cell count ALTMGP_BMI_035_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - bm_panel_live_cell_count

ALTERNATIVE - BM panel lymphocyte gate cell count ALTMGP_BMI_036_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - bm_panel_lymphocyte_gate_cell_count

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ALTERNATIVE - BM panel CD45+ cell count ALTMGP_BMI_037_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - bm_panel_cd45_cell_count

ALTERNATIVE - 3i bone marrow panel ALTMGP_BMI_038_001 | v1.0

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - 3i_bone_marrow_panel

Options:
(A) B220 pe-cy-7, CD43 percp-cy5.5, CD24 PE, bp1/ly51 AF647, igm BV421, igd AF488, gr1 AF700, cd11b BV510, CD3 BV786, CD161 BV650, live/dead near IR,
(B) CD45 NC605, B220 pe-cy-7, CD43 percp-cy5.5, CD24 PE, bp1/ly51 AF647, igm BV421, igd AF488, gr1 AF700, cd11b BV510, CD3 BV786, CD161 BV650, live/dead near IR,
(C) CD45 qdot605, B220 pe-cy-7, CD43 percp-cy5.5, CD24 APC, bp1/ly51 PE, igm BV421, igd FITC, gr1 AF700, cd11b BV510, CD3 BV786, CD138 BV650, live/dead near IR,

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ALTERNATIVE - FACS equipment name ALTMGP_BMI_039_001 | v1.0

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - facs_equipment_name

Options: Flow cytometer,

ALTERNATIVE - FACS equipment manufacturer ALTMGP_BMI_040_001 | v1.0

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - facs_equipment_manufacturer

Options: BD Biosciences, Beckman coulter,

ALTERNATIVE - FACS equipment model ALTMGP_BMI_041_001 | v1.0

procedureMetadata

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - facs_equipment_model

Options: FC500, LSR fortessa X20, LSR II,

ALTERNATIVE - FACS sample status ALTMGP_BMI_042_001 | v1.0

procedureMetadata

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - facs_sample_status

Options: Analysed next day unfixed, Fixed, Fresh, Prepared next day, analysed fresh,

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ALTERNATIVE - Tissue dissociation method ALTMGP_BMI_043
_001 | v1.0

procedureMetadata

Req. Analysis: false   **Req. Upload:** true   **Is Annotated:** false

Description: ALTERNATIVE - tissue_dissociation_method

Options: Centrifugation, Gentlemacs, Pestle,

ALTERNATIVE - Comment ALTMGP_BMI_044_001 | v1.0

simpleParameter

Req. Analysis: false   **Req. Upload:** false   **Is Annotated:** false

Description: ALTERNATIVE - comment

ALTERNATIVE - Images associated with FACS analysis AL
TMGP_BMI_045_001 | v1.0

seriesMediaParameter

Req. Analysis: false   **Req. Upload:** false   **Is Annotated:** false

Description: ALTERNATIVE -