

# ALTERNATIVE - Mesenteric Lymph Node Immunophenotyping ALTMGP\_MLN\_001

## Parameters and Metadata

### ALTERNATIVE - Total T cells - % of CD45+ ALTMGP\_MLN\_001\_0

01 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_t\_cells\_of\_cd45

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### ALTERNATIVE - Total ab T cells - % of total T cells ALTMGP\_

MLN\_002\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_ab\_t\_cells\_of\_total\_t\_cells

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## ALTERNATIVE - Total CD4+ T cells - % of ab T cells ALTMGP

\_MLN\_003\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd4\_t\_cells\_of\_ab\_t\_cells

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## ALTERNATIVE - CD4+ T helper cells - % of CD4+ ALTMGP\_ML

N\_004\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - cd4\_t\_helper\_cells\_of\_cd4

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## ALTERNATIVE - Effector CD4+ T helper cells - % of CD4+ T helper cells ALTMGP\_MLN\_005\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_cd4\_t\_helper\_cells\_of\_cd4\_t\_helper\_cells

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## **ALTERNATIVE - Resting CD4+ T helper cells - % of CD4+ T helper cells** ALTMGP\_MLN\_006\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_cd4\_t\_helper\_cells\_of\_cd4\_t\_helper\_cells

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## **ALTERNATIVE - KLRG1+ CD4+ T helper cells - % of CD4+ T helper cells** ALTMGP\_MLN\_007\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_cd4\_t\_helper\_cells\_of\_cd4\_t\_helper\_cells

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## **ALTERNATIVE - Total Treg cells - % of CD4+** ALTMGP\_MLN\_008\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** %

**Description:** ALTERNATIVE - total\_treg\_cells\_of\_cd4

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## **ALTERNATIVE - Effector Treg cells - % of Treg** ALTMGP\_MLN\_

009\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - effector\_treg\_cells\_of\_treg

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## **ALTERNATIVE - Resting Treg cells - % of Treg** ALTMGP\_MLN\_

010\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - resting\_treg\_cells\_of\_treg

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## **ALTERNATIVE - KLRG1+ Treg cells - % of Treg** ALTMGP\_MLN\_

\_011\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klrg1\_treg\_cells\_of\_treg

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## ALTERNATIVE - Total CD8+ T cells - % of ab T cells ALTMGP \_MLN\_012\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd8\_t\_cells\_of\_ab\_t\_cells

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## ALTERNATIVE - Effector CD8+ T cells - % of CD8+ ALTMGP MLN\_013\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_cd8\_t\_cells\_of\_cd8

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## ALTERNATIVE - Resting CD8+ T cells - % of CD8+ ALTMGP\_

MLN\_014\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_cd8\_t\_cells\_of\_cd8

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## ALTERNATIVE - Naive CD8+ T cells - % of CD8+ ALTMGP\_ML

N\_015\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - naive\_cd8\_t\_cells\_of\_cd8

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## ALTERNATIVE - KLRG1+ CD8+ T cells - % of CD8+ ALTMGP\_

MLN\_016\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** ALTERNATIVE - klrg1\_cd8\_t\_cells\_of\_cd8

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## **ALTERNATIVE - Total gd T cells - % of total T cells** ALTMGP\_

MLN\_017\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - total\_gd\_t\_cells\_of\_total\_t\_cells

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## **ALTERNATIVE - CD5+ gd T cells - % of gd T cells** ALTMGP\_M

LN\_018\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - cd5\_gd\_t\_cells\_of\_gd\_t\_cells

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## **ALTERNATIVE - Effector gd T cells - % of gd T cells** ALTMGP

\_MLN\_019\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_gd\_t\_cells\_of\_gd\_t\_cells

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## ALTERNATIVE - Resting gd T cells - % of gd T cells ALTMGP

\_MLN\_020\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_gd\_t\_cells\_of\_gd\_t\_cells

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## ALTERNATIVE - KLRG1+ gd T cells - % of gd T cells ALTMG

P\_MLN\_021\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_gd\_t\_cells\_of\_gd\_t\_cells

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## ALTERNATIVE - Total NKT cells - % of CD45+ ALTMGP\_MLN\_0

22\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_nkt\_cells\_of\_cd45

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## ALTERNATIVE - Total CD4- NKT cells - % of NKT cells ALT

MGP\_MLN\_023\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd4\_nkt\_cells\_of\_nkt\_cells

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## ALTERNATIVE - Effector CD4- NKT cells - % of CD4- NKT cells ALTMGP\_MLN\_024\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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## **ALTERNATIVE - Resting CD4- NKT cells - % of CD4- NKT cells** ALTMGP\_MLN\_025\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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## **ALTERNATIVE - KLRG1+ CD4- NKT cells - % of CD4- NKT cells** ALTMGP\_MLN\_026\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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## **ALTERNATIVE - Total CD4+ NKT cells - % of NKT cells** ALTMGP\_MLN\_027\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd4\_nkt\_cells\_of\_nkt\_cells

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## ALTERNATIVE - Effector CD4+ NKT cells - % of CD4+ NKT cells

ALTMGP\_MLN\_028\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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## ALTERNATIVE - Resting CD4+ NKT cells - % of CD4+ NKT cells

ALTMGP\_MLN\_029\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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## ALTERNATIVE - KLRG1+ CD4+ NKT cells - % of CD4+ NKT cells

ALTMGP\_MLN\_030\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klrg1\_cd4\_nkt\_cells\_of\_cd4\_nkt\_cells

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**ALTERNATIVE - Total NK cells - % of CD45+** ALTMGP\_MLN\_031\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_nk\_cells\_of\_cd45

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**ALTERNATIVE - Effector NK cells - % of NK cells** ALTMGP\_MLN\_032\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_nk\_cells\_of\_nk\_cells

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## ALTERNATIVE - Resting NK cells - % of NK cells ALTMGP\_ML

N\_033\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_nk\_cells\_of\_nk\_cells

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## ALTERNATIVE - KLRG1+ NK cells - % of NK cells ALTMGP\_M

LN\_034\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_nk\_cells\_of\_nk\_cells

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## ALTERNATIVE - Total B cells - % of CD45+ ALTMGP\_MLN\_035\_0

01 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** ALTERNATIVE - total\_b\_cells\_of\_cd45

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**ALTERNATIVE - B1a cells - % of B cells** ALTMGP\_MLN\_036\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - b1a\_cells\_of\_b\_cells

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**ALTERNATIVE - Total B2 cells - % of B cells** ALTMGP\_MLN\_037\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - total\_b2\_cells\_of\_b\_cells

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**ALTERNATIVE - Marginal zone B cells - % of B2 cells** ALTMGP\_MLN\_038\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - marginal\_zone\_b\_cells\_of\_b2\_cells

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## **ALTERNATIVE - Marginal zone precursor B cells - % of B2 cells** ALTMGP\_MLN\_039\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - marginal\_zone\_precursor\_b\_cells\_of\_b2\_cells

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## **ALTERNATIVE - Transitional 1 B cells - % of B2 cells** ALTMGP\_MLN\_040\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - transitional\_1\_b\_cells\_of\_b2\_cells

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## ALTERNATIVE - Transitional 2 B cells - % of B2 cells ALTMG

P\_MLN\_041\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - transitional\_2\_b\_cells\_of\_b2\_cells

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## ALTERNATIVE - Follicular B cells - % of B2 cells ALTMGP\_ML

N\_042\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - follicular\_b\_cells\_of\_b2\_cells

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## ALTERNATIVE - Germinal centre B cells - % of B2 cells ALT

MGP\_MLN\_043\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - germinal\_centre\_b\_cells\_of\_b2\_cells



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## **ALTERNATIVE - Early germinal centre B cells - % of B2 cells** ALTMGP\_MLN\_044\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - early\_germinal\_centre\_b\_cells\_of\_b2\_cells

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## **ALTERNATIVE - Late germinal centre B cells - % of B2 cells** ALTMGP\_MLN\_045\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - late\_germinal\_centre\_b\_cells\_of\_b2\_cells

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## **ALTERNATIVE - Plasma cells - % of B2 cells** ALTMGP\_MLN\_046\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** %

**Description:** ALTERNATIVE - plasma\_cells\_of\_b2\_cells

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**ALTERNATIVE - Memory B cells - % of B2 cells** ALTMGP\_MLN\_047\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - memory\_b\_cells\_of\_b2\_cells

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**ALTERNATIVE - B2 marginal zone + precursor cells - % of B2 cells** ALTMGP\_MLN\_048\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - b2\_marginal\_zone\_precursor\_cells\_of\_b2\_cells

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**ALTERNATIVE - B2 t1 + t2 cells - % of B2 cells** ALTMGP\_MLN\_049\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - b2\_t1\_t2\_cells\_of\_b2\_cells

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## ALTERNATIVE - B2 t3 + f1 + f2 + gc cells - % of B2 cells AL

TMGP\_MLN\_050\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - b2\_t3\_f1\_f2\_gc\_cells\_of\_b2\_cells

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## ALTERNATIVE - Total myeloid cells - % of CD45+ ALTMGP\_M

LN\_051\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_myeloid\_cells\_of\_cd45

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## ALTERNATIVE - Macrophages - % of myeloid cells ALTMGP\_

MLN\_052\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - macrophages\_of\_myeloid\_cells

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## ALTERNATIVE - Granulocytes + monocytes - % of myeloid cells ALTMGP\_MLN\_053\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - granulocytes\_monocytes\_of\_myeloid\_cells

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## ALTERNATIVE - Granulocytes - % of myeloid cells ALTMGP\_

MLN\_054\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** ALTERNATIVE - granulocytes\_of\_myeloid\_cells

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## **ALTERNATIVE - Monocytes - % of myeloid cells** ALTMGP\_ML

N\_055\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - monocytes\_of\_myeloid\_cells

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## **ALTERNATIVE - Eosinophils - % of myeloid cells** ALTMGP\_ML

N\_056\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - eosinophils\_of\_myeloid\_cells

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## **ALTERNATIVE - Total DC - % of myeloid cells** ALTMGP\_MLN\_0

57\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_dc\_of\_myeloid\_cells

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## **ALTERNATIVE - Plasmacytoid DC - % of DC** ALTMGP\_MLN\_058

\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - plasmacytoid\_dc\_of\_dc

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## **ALTERNATIVE - Conventional DC (cDC) - % of DC** ALTMGP\_

MLN\_059\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - conventional\_dc\_cdc\_of\_dc

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## ALTERNATIVE - CD11b-high cDC - % of cDC ALTMGP\_MLN\_060

\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - conventional\_cd11b\_type\_dc\_of\_cdc

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## ALTERNATIVE - CD11b-low cDC - % of cDC ALTMGP\_MLN\_061\_

001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - conventional\_cd8a\_type\_dc\_of\_cdc

---

## ALTERNATIVE - CD103+ CD11b-low cDC - % of CD11b-low cDC ALTMGP\_MLN\_062\_001 | v1.2

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - cd103\_cd8a\_type\_dc\_of\_cd8\_type\_cdc

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## **ALTERNATIVE - Total ab T cells - % of CD45+** ALTMGP\_MLN\_0

63\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_ab\_t\_cells\_of\_cd45

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## **ALTERNATIVE - Total CD4+ T cells - % of CD45+** ALTMGP\_ML

N\_064\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd4\_t\_cells\_of\_cd45

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## **ALTERNATIVE - CD4+ T helper cells - % of CD45+** ALTMGP\_

MLN\_065\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false



**Unit Measured:** %

**Description:** ALTERNATIVE - cd4\_t\_helper\_cells\_of\_cd45

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## **ALTERNATIVE - Effector CD4+ T helper cells - % of CD45+**

ALTMGP\_MLN\_066\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - effector\_cd4\_t\_helper\_cells\_of\_cd45

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## **ALTERNATIVE - Resting CD4+ T helper cells - % of CD45+**

ALTMGP\_MLN\_067\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - resting\_cd4\_t\_helper\_cells\_of\_cd45

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## **ALTERNATIVE - KLRG1+ CD4+ T helper cells - % of CD45+**

ALTMGP\_MLN\_068\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klrg1\_cd4\_t\_helper\_cells\_of\_cd45

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## ALTERNATIVE - Total Treg cells - % of CD45+ ALTMGP\_MLN\_0

69\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_treg\_cells\_of\_cd45

---

## ALTERNATIVE - Effector Treg cells - % of CD45+ ALTMGP\_ML

N\_070\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_treg\_cells\_of\_cd45

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## ALTERNATIVE - Resting Treg cells - % of CD45+ ALTMGP\_ML

N\_071\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_treg\_cells\_of\_cd45

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## ALTERNATIVE - KLRG1+ Treg cells - % of CD45+ ALTMGP\_M

LN\_072\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_treg\_cells\_of\_cd45

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## ALTERNATIVE - Total CD8+ T cells - % of CD45+ ALTMGP\_ML

N\_073\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** ALTERNATIVE - total\_cd8\_t\_cells\_of\_cd45

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## **ALTERNATIVE - Effector CD8+ T cells - % of CD45+** ALTMGP \_MLN\_074\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - effector\_cd8\_t\_cells\_of\_cd45

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## **ALTERNATIVE - Resting CD8+ T cells - % of CD45+** ALTMGP \_MLN\_075\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - resting\_cd8\_t\_cells\_of\_cd45

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## **ALTERNATIVE - Naive CD8+ T cells - % of CD45+** ALTMGP\_M LN\_076\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - naive\_cd8\_t\_cells\_of\_cd45

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## ALTERNATIVE - KLRG1+ CD8+ T cells - % of CD45+ ALTMG

P\_MLN\_077\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_cd8\_t\_cells\_of\_cd45

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## ALTERNATIVE - Total gd T cells - % of CD45+ ALTMGP\_MLN\_0

78\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_gd\_t\_cells\_of\_cd45

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## ALTERNATIVE - CD5+ gd T cells - % of CD45+ ALTMGP\_MLN\_0

79\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - cd5\_gd\_t\_cells\_of\_cd45

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## ALTERNATIVE - Effector gd cells - % of CD45+ ALTMGP\_MLN\_

080\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_gd\_cells\_of\_cd45

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## ALTERNATIVE - Resting gd T cells - % of CD45+ ALTMGP\_ML

N\_081\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_gd\_t\_cells\_of\_cd45

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## ALTERNATIVE - KLRG1+ gd T cells - % of CD45+ ALTMGP\_M

LN\_082\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_gd\_t\_cells\_of\_cd45

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## ALTERNATIVE - Total CD4- NKT cells - % of CD45+ ALTMGP

\_MLN\_083\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd4\_nkt\_cells\_of\_cd45

---

## ALTERNATIVE - Effector CD4- NKT cells - % of CD45+ ALT

MGP\_MLN\_084\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** %

**Description:** ALTERNATIVE - effector\_cd4\_nkt\_cells\_of\_cd45

---

## **ALTERNATIVE - Resting CD4- NKT cells - % of CD45+ ALT**

GP\_MLN\_085\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - resting\_cd4\_nkt\_cells\_of\_cd45

---

## **ALTERNATIVE - KLRG1+ CD4- NKT cells - % of CD45+ ALT**

MGP\_MLN\_086\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - klr1\_cd4\_nkt\_cells\_of\_cd45

---

## **ALTERNATIVE - Total CD4+ NKT cells - % of CD45+ ALTMGP**

\_MLN\_087\_001 | v1.0



simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_cd4\_nkt\_cells\_of\_cd45

---

## ALTERNATIVE - Effector CD4+ NKT cells - % of CD45+ ALT

MGP\_MLN\_088\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_cd4\_nkt\_cells\_of\_cd45

---

## ALTERNATIVE - Resting CD4+ NKT cells - % of CD45+ ALT

MGP\_MLN\_089\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - resting\_cd4\_nkt\_cells\_of\_cd45

---

## ALTERNATIVE - KLRG1+ CD4+ NKT cells - % of CD45+ ALT

MGP\_MLN\_090\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - klr1\_cd4\_nkt\_cells\_of\_cd45

---

## ALTERNATIVE - Effector NK cells - % of CD45+ ALTMGP\_MLN

\_091\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - effector\_nk\_cells\_of\_cd45

---

## ALTERNATIVE - Resting NK cells - % of CD45+ ALTMGP\_MLN\_

092\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** ALTERNATIVE - resting\_nk\_cells\_of\_cd45

---

**ALTERNATIVE - KLRG1+ NK cells - % of CD45+** ALTMGP\_MLN\_093\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - klr1\_nk\_cells\_of\_cd45

---

**ALTERNATIVE - B1a cells - % of CD45+** ALTMGP\_MLN\_094\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - b1a\_cells\_of\_cd45

---

**ALTERNATIVE - Total B2 cells - % of CD45+** ALTMGP\_MLN\_095\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_b2\_cells\_of\_cd45

---

## ALTERNATIVE - Marginal zone B cells - % of CD45+ ALTMGP

\_MLN\_096\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - marginal\_zone\_b\_cells\_of\_cd45

---

## ALTERNATIVE - Marginal zone precursor B cells - % of

CD45+ ALTMGP\_MLN\_097\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - marginal\_zone\_precursor\_b\_cells\_of\_cd45

---

## ALTERNATIVE - Transitional 1 B cells - % of CD45+ ALTMGP

\_MLN\_098\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - transitional\_1\_b\_cells\_of\_cd45

---

## ALTERNATIVE - Transitional 2 B cells - % of CD45+ ALTMGP

\_MLN\_099\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - transitional\_2\_b\_cells\_of\_cd45

---

## ALTERNATIVE - Follicular B cells - % of CD45+ ALTMGP\_MLN

\_100\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - follicular\_b\_cells\_of\_cd45

---

## **ALTERNATIVE - Germinal centre B cells - % of CD45+** ALTM

GP\_MLN\_101\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - germinal\_centre\_b\_cells\_of\_cd45

---

## **ALTERNATIVE - Early germinal centre B cells - % of CD45+** ALTMGP\_MLN\_102\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - early\_germinal\_centre\_b\_cells\_of\_cd45

---

## **ALTERNATIVE - Late germinal centre B cells - % of CD45+**

ALTMGP\_MLN\_103\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** %

**Description:** ALTERNATIVE - late\_germinal\_centre\_b\_cells\_of\_cd45

---

**ALTERNATIVE - Plasma cells - % of CD45+** ALTMGP\_MLN\_104\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - plasma\_cells\_of\_cd45

---

**ALTERNATIVE - Memory B cells - % of CD45+** ALTMGP\_MLN\_105\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - memory\_b\_cells\_of\_cd45

---

**ALTERNATIVE - B2 marginal zone + precursor cells - % of CD45+** ALTMGP\_MLN\_106\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - b2\_marginal\_zone\_precursor\_cells\_of\_cd45

---

**ALTERNATIVE - B2 t1 + t2 cells - % of CD45+** ALTMGP\_MLN\_107\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - b2\_t1\_t2\_cells\_of\_cd45

---

**ALTERNATIVE - B2 t3 + f1+ f2 + gc cells - % of CD45+** ALTMGP\_MLN\_108\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - b2\_t3\_f1\_f2\_gc\_cells\_of\_cd45

---



## **ALTERNATIVE - Macrophages - % of CD45+** ALTMGP\_MLN\_109\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - macrophages\_of\_cd45

---

## **ALTERNATIVE - Granulocytes + monocytes - % of CD45+** ALTMGP\_MLN\_110\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - granulocytes\_monocytes\_of\_cd45

---

## **ALTERNATIVE - Granulocytes - % of CD45+** ALTMGP\_MLN\_111\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

**Description:** ALTERNATIVE - granulocytes\_of\_cd45

---

## **ALTERNATIVE - Monocytes - % of CD45+** ALTMGP\_MLN\_112\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - monocytes\_of\_cd45

---

## **ALTERNATIVE - Eosinophils - % of CD45+** ALTMGP\_MLN\_113\_0

01 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** ALTERNATIVE - eosinophils\_of\_cd45

---

## **ALTERNATIVE - Total DC - % of CD45+** ALTMGP\_MLN\_114\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - total\_dc\_of\_cd45

---

## ALTERNATIVE - Plasmacytoid DC - % of CD45+ ALTMGP\_MLN \_115\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - plasmacytoid\_dc\_of\_cd45

---

## ALTERNATIVE - Conventional DC (cDC) - % of CD45+ ALTM GP\_MLN\_116\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - conventional\_dc\_of\_cd45

---

## ALTERNATIVE - CD11b-high cDC - % of CD45+ ALTMGP\_MLN\_

117\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - conventional\_cd11b\_type\_dc\_of\_cd45

---

## ALTERNATIVE - CD11b-low cDC - % of CD45+ ALTMGP\_MLN\_1

18\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - conventional\_cd8a\_type\_dc\_of\_cd45

---

## ALTERNATIVE - CD103+ CD11b-low cDC - % of CD45+ ALT

MGP\_MLN\_119\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

Description: ALTERNATIVE - cd103\_cd8a\_type\_dc\_of\_cd45

---

## **ALTERNATIVE - T cell panel CD45+ live cell count** ALTMGP\_

MLN\_120\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - t\_cell\_panel\_cd45\_live\_cell\_count

---

## **ALTERNATIVE - B cell panel CD45+ live cell count** ALTMGP\_

MLN\_121\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - b\_cell\_panel\_cd45\_live\_cell\_count

---

## **ALTERNATIVE - Myeloid panel CD45+ live cell count** ALTMG

P\_MLN\_122\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - myeloid\_panel\_cd45\_live\_cell\_count

---

## **ALTERNATIVE - Total T cells - cell count** ALTMGP\_MLN\_123\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Total ab T cells - cell count** ALTMGP\_MLN\_124\_

001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_ab\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Total CD4+ T cells - cell count** ALTMGP\_MLN\_

125\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_cd4\_t\_cells\_cell\_count

---

## ALTERNATIVE - CD4+ T helper cells - cell count ALTMGP\_ML

N\_126\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - cd4\_t\_helper\_cells\_cell\_count

---

## ALTERNATIVE - Effector CD4+ T helper cells - cell count A

LTMGP\_MLN\_127\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - effector\_cd4\_t\_helper\_cells\_cell\_count

---

## ALTERNATIVE - Resting CD4+ T helper cells - cell count A

LTMGP\_MLN\_128\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - resting\_cd4\_t\_helper\_cells\_cell\_count

---

## ALTERNATIVE - KLRG1+ CD4+ T helper cells - cell count

ALTMGP\_MLN\_129\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - klrG1\_cd4\_t\_helper\_cells\_cell\_count

---

## ALTERNATIVE - Total Treg cells - cell count

ALTMGP\_MLN\_130

\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - total\_treg\_cells\_cell\_count

---

## ALTERNATIVE - Effector Treg cells - cell count

ALTMGP\_MLN\_

131\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - effector\_treg\_cells\_cell\_count

---



## **ALTERNATIVE - Resting Treg cells - cell count** ALTMGP\_MLN\_

132\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - resting\_treg\_cells\_cell\_count

---

## **ALTERNATIVE - KLRG1+ Treg cells - cell count** ALTMGP\_MLN

\_133\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - klr1\_treg\_cells\_cell\_count

---

## **ALTERNATIVE - Total CD8+ T cells - cell count** ALTMGP\_MLN\_

134\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_cd8\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Effector CD8+ T cells - cell count** ALTMGP\_M

LN\_135\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - effector\_cd8\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Resting CD8+ T cells - cell count** ALTMGP\_M

LN\_136\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - resting\_cd8\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Naive CD8+ T cells - cell count** ALTMGP\_MLN

\_137\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - naive\_cd8\_t\_cells\_cell\_count

---

## **ALTERNATIVE - KLRG1+ CD8+ T cells - cell count** ALTMGP\_

MLN\_138\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - klr1\_cd8\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Total gd T cells - cell count** ALTMGP\_MLN\_139

\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_gd\_t\_cells\_cell\_count

---

## **ALTERNATIVE - CD5+ gd T cells - cell count** ALTMGP\_MLN\_140

\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - cd5\_gd\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Effector gd T cells - cell count** ALTMGP\_MLN\_

141\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - effector\_gd\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Resting gd T cells - cell count** ALTMGP\_MLN\_

142\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - resting\_gd\_t\_cells\_cell\_count

---

## **ALTERNATIVE - KLRG1+ gd T cells - cell count** ALTMGP\_MLN\_

\_143\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - klrG1\_gd\_t\_cells\_cell\_count

---

## **ALTERNATIVE - Total NKT cells - cell count** ALTMGP\_MLN\_144\_

001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_nkt\_cells\_cell\_count

---

## **ALTERNATIVE - Total CD4- NKT cells - cell count** ALTMGP\_M

LN\_145\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_cd4\_nkt\_cells\_cell\_count

---

## **ALTERNATIVE - Effector CD4- NKT cells - cell count** ALTMG

P\_MLN\_146\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - effector\_cd4\_nkt\_cells\_cell\_count

---

## ALTERNATIVE - Resting CD4- NKT cells - cell count ALTMG

P\_MLN\_147\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - resting\_cd4\_nkt\_cells\_cell\_count

---

## ALTERNATIVE - KLRG1+ CD4- NKT cells - cell count ALTMG

P\_MLN\_148\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - klr1\_cd4\_nkt\_cells\_cell\_count

---

## ALTERNATIVE - Total CD4+ NKT cells - cell count ALTMGP\_M

LN\_149\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - total\_cd4\_nkt\_cells\_cell\_count

---

## ALTERNATIVE - Effector CD4+ NKT cells - cell count ALTMG

P\_MLN\_150\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - effector\_cd4\_nkt\_cells\_cell\_count

---

## ALTERNATIVE - Resting CD4+ NKT cells - cell count ALTMG

P\_MLN\_151\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - resting\_cd4\_nkt\_cells\_cell\_count

---

## ALTERNATIVE - KLRG1+ CD4+ NKT cells - cell count ALTM

GP\_MLN\_152\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - klr1\_cd4\_nkt\_cells\_cell\_count

---

## **ALTERNATIVE - Total NK cells - cell count** ALTMGP\_MLN\_153\_0

01 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_nk\_cells\_cell\_count

---

## **ALTERNATIVE - Effector NK cells - cell count** ALTMGP\_MLN\_15

4\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - effector\_nk\_cells\_cell\_count

---

## **ALTERNATIVE - Resting NK cells - cell count** ALTMGP\_MLN\_15

5\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - resting\_nk\_cells\_cell\_count

---



## ALTERNATIVE - KLRG1+ NK cells - cell count ALTMGP\_MLN\_1

56\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - klr1\_nk\_cells\_cell\_count

---

## ALTERNATIVE - Total B cells - cell count ALTMGP\_MLN\_157\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - total\_b\_cells\_cell\_count

---

## ALTERNATIVE - B1a cells - cell count ALTMGP\_MLN\_158\_001 | v1.

0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - b1a\_cells\_cell\_count

---

## **ALTERNATIVE - Total B2 cells - cell count** ALTMGP\_MLN\_159\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_b2\_cells\_cell\_count

---

## **ALTERNATIVE - Marginal zone B cells - cell count** ALTMGP\_

MLN\_160\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - marginal\_zone\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Marginal zone precursor B cells - cell count** ALTMGP\_MLN\_161\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - marginal\_zone\_precursor\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Transitional 1 B cells - cell count** ALTMGP\_M

LN\_162\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - transitional\_1\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Transitional 2 B cells - cell count** ALTMGP\_M

LN\_163\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - transitional\_2\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Follicular B cells - cell count** ALTMGP\_MLN\_16

4\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - follicular\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Germinal centre B cells - cell count** ALTMG

P\_MLN\_165\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - germinal\_centre\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Early germinal centre B cells - cell count**

ALTMGP\_MLN\_166\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - early\_germinal\_centre\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Late germinal centre B cells - cell count** A

LTMGP\_MLN\_167\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - late\_germinal\_centre\_b\_cells\_cell\_count

---

## **ALTERNATIVE - Plasma cells - cell count** ALTMGP\_MLN\_168\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - plasma\_cells\_cell\_count

---

## **ALTERNATIVE - Memory B cells - cell count** ALTMGP\_MLN\_169

\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - memory\_b\_cells\_cell\_count

---

## **ALTERNATIVE - B2 marginal zone + precursor cells - cell count** ALTMGP\_MLN\_170\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - b2\_marginal\_zone\_precursor\_cells\_cell\_count

---

## **ALTERNATIVE - B2 t1 + t2 cells - cell count** ALTMGP\_MLN\_171\_

001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - b2\_t1\_t2\_cells\_cell\_count

---

## **ALTERNATIVE - B2 t3 + f1+ f2 + gc cells - cell count** ALTMGP

\_MLN\_172\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - b2\_t3\_f1\_f2\_gc\_cells\_cell\_count

---

## **ALTERNATIVE - Total myeloid cells - cell count** ALTMGP\_MLN

\_173\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - total\_myeloid\_cells\_cell\_count

---

## **ALTERNATIVE - Macrophages - cell count** ALTMGP\_MLN\_174\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - macrophages\_cell\_count

---

## **ALTERNATIVE - Granulocytes + monocytes - cell count** AL

TMGP\_MLN\_175\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - granulocytes\_monocytes\_cell\_count

---

## **ALTERNATIVE - Granulocytes - cell count** ALTMGP\_MLN\_176\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - granulocytes\_cell\_count

---

## **ALTERNATIVE - Monocytes - cell count** ALTMGP\_MLN\_177\_001 |

v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - monocytes\_cell\_count

---

## **ALTERNATIVE - Eosinophils - cell count** ALTMGP\_MLN\_178\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - eosinophils\_cell\_count

---

## **ALTERNATIVE - Total DC - cell count** ALTMGP\_MLN\_179\_001 | v1.

0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - total\_dc\_cell\_count

---



## **ALTERNATIVE - Plasmacytoid DC - cell count** ALTMGP\_MLN\_1

80\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - plasmacytoid\_dc\_cell\_count

---

## **ALTERNATIVE - Conventional DC (cDC) - cell count** ALTMGP

\_MLN\_181\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - conventional\_dc\_cell\_count

---

## **ALTERNATIVE - CD11b-high cDC - cell count** ALTMGP\_MLN\_18

2\_001 | v1.1

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - conventional\_cd11b\_type\_dc\_cell\_count

---

## ALTERNATIVE - CD11b-low cDC - cell count ALTMGP\_MLN\_183

\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - conventional\_cd8a\_type\_dc\_cell\_count

---

## ALTERNATIVE - CD103+ CD11b-low cDC - cell count ALTMGP

P\_MLN\_184\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - cd103\_cd8a\_type\_dc\_cell\_count

---

## ALTERNATIVE - T cell panel singlets cell count ALTMGP\_MLN

\_185\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - t\_cell\_panel\_singlets\_cell\_count

---

## **ALTERNATIVE - B cell panel singlets cell count** ALTMGP\_MLN

\_186\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - b\_cell\_panel\_singlets\_cell\_count

---

## **ALTERNATIVE - Myeloid panel singlets cell count** ALTMGP\_M

LN\_187\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - myeloid\_panel\_singlets\_cell\_count

---

## **ALTERNATIVE - T cell panel live cell count** ALTMGP\_MLN\_188\_0

01 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - t\_cell\_panel\_live\_cell\_count

---

## ALTERNATIVE - B cell panel live cell count ALTMGP\_MLN\_189\_

001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - b\_cell\_panel\_live\_cell\_count

---

## ALTERNATIVE - Myeloid panel live cell count ALTMGP\_MLN\_19

0\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - myeloid\_panel\_live\_cell\_count

---

## ALTERNATIVE - T cell panel lymphocyte gate cell count AL

TMGP\_MLN\_191\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - t\_cell\_panel\_lymphocyte\_gate\_cell\_count

---

## ALTERNATIVE - B cell panel lymphocyte gate cell count A

LTMGP\_MLN\_192\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - b\_cell\_panel\_lymphocyte\_gate\_cell\_count

---

## ALTERNATIVE - Myeloid panel lymphocyte gate cell count

ALTMGP\_MLN\_193\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - myeloid\_panel\_lymphocyte\_gate\_cell\_count

---

## ALTERNATIVE - 3i T cell panel ALTMGP\_MLN\_194\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - 3i\_t\_cell\_panel

### Options:

(C) CD45 Qdot605, CD5 BV510, TCRd PE-Cy7, CD8a AF700, CD4 BV786, CD161 BV650, CD44 FITC, CD62L PerCP-Cy5.5, CD25 APC, KLRG1 BV421, GITR PE, Live/dead near IR,  
(A) CD45 NC605, TCRb AF700, TCRd PE-Cy7, CD8a BV510, CD4 BV786, CD161 BV650, CD44 FITC, CD62L PerCP-Cy5.5, CD25 APC, KLRG1 BV421, GITR PE,

(B) CD45 NC605, TCRb AF700, TCRd PE-Cy7, CD8a BV510, CD4 BV786, CD161 BV650, CD44 FITC, CD62L PerCP-Cy5.5, CD25 APC, KLRG1 BV421, GITR PE, Live/dead near IR, (D) failed,

---

## ALTERNATIVE - 3i B cell panel ALTMGP\_MLN\_195\_001 | v1.0

[simpleParameter](#)

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - 3i\_b\_cell\_panel

### Options:

(B) CD45 NC605, B220 AF700, CD19 BV786, CD5 BV510, CD21/35 FITC, CD23 BV421, GL-7 AF647, IgM PE-Cy7, IgD PerCP-Cy5.5, CD93 PE, CD138 BV650, Live/dead near IR, (A) CD45 NC605, B220 AF700, CD19 BV786, CD5 BV510, CD21/35 FITC, CD23 BV421, GL-7 PE, IgM PE-Cy7, CD93 PerCP-Cy5.5, CD138 BV650, Live/dead near IR, (C) CD45 Qdot605, B220 AF700, CD5 BV510, CD21/35 FITC, CD23 BV421, GL-7 AF647, IgM BV786, IgD PerCP-Cy5.5, IgG1 PE, CD95 PE-Cy7, CD138 BV650, Live/dead near IR, (D) failed,

---

## ALTERNATIVE - 3i Myeloid panel ALTMGP\_MLN\_196\_001 | v1.0

[simpleParameter](#)

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - 3i\_myeloid\_panel

### Options:

(B) CD45 Qdot605, CD11c BV786, CD11b BV510, F4/80 PerCP-Cy5.5, CD103 PE, CD317 BV650, CD86 PE-Cy7, MHC II FITC, Ly6C AF700, Ly6G APC, Dump (CD3, CD19, CD161) BV421, Live/dead near IR,

(A) CD45 NC605, CD11c BV711, CD11b BV510, F4/80 PerCP-Cy5.5, CD103 PE, CD317 APC, CD86 PE-Cy7, MHC II FITC, Gr1 AF700, Dump (CD3, CD19, CD161) BV421, Live /dead near IR,  
(C) failed,

---

## **ALTERNATIVE - Tissue dissociation method** ALTMGP\_MLN\_197\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - tissue\_dissociation\_method

**Options:** Pestle, GentleMACS, Centrifugation,

---

## **ALTERNATIVE - Collagenase digestion** ALTMGP\_MLN\_198\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - collagenase\_digestion

**Options:** Yes, No,

---

## ALTERNATIVE - Buffers and enzymes ALTMGP\_MLN\_199\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - buffers\_and\_enzymes

Options: IMPC, pre-IMPC,

---

## ALTERNATIVE - FACS sample status ALTMGP\_MLN\_200\_001 | v1.

0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - facs\_sample\_status

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

---

## ALTERNATIVE - FACS equipment name ALTMGP\_MLN\_201\_001 |

v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: ALTERNATIVE - facs\_equipment\_name

Options: Flow cytometer,



---

## **ALTERNATIVE - FACS equipment manufacturer** ALTMGP\_MLN

\_202\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - facs\_equipment\_manufacturer

**Options:** Beckton Dickinson, Beckman Coulter,

---

## **ALTERNATIVE - FACS equipment model** ALTMGP\_MLN\_203\_001

| v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - facs\_equipment\_model

**Options:** LSR Fortessa X20, LSR II, FC500,

---

## **ALTERNATIVE - Comments** ALTMGP\_MLN\_204\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - comments

---

## **ALTERNATIVE - Anesthesia used for blood collection** ALTM

GP\_MLN\_205\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** ALTERNATIVE - null

**Options:** Injection narcosis with Ketamine (100mg/kg)/Xylazine (10mg/kg),  
Injection narcosis with Tribromoethanol (Avertin),

---

## **ALTERNATIVE - Images associated with FACS analysis** AL

TMGP\_MLN\_206\_001 | v1.0

seriesMediaParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** ALTERNATIVE - Optional series media parameter

---