# Buffy coat peripheral blood leukocyte immunophenotyping MGP_BCI_001

## Purpose

Buffy coat peripheral blood leukocyte immunophenotyping

## Procedure

Mice were fed on Mouse Breeder Diet (5021,Labdiet) from weaning

Analysis is performed on the buffy coat obtained from heparinised blood after red blood cell lysis for the following parameters: Percentages of total T cells ($CD3^+$), $CD4^+$ and $CD8^+$ T cells, NKT cells ($CD3^+$ $CD161^+$), NK cells (CD3-$CD161^+$), B cells ($CD19^+$), Granulocytes ($CD11b^+$ $Gr1^+$) and Monocytes ($CD11b^+$ $Gr1^{dim/neg}$ $CD161^-$) are presented relative to the total viable CD45+ population.

Percentages of $CD44^{hi}$ $CD62L^{lo}$ $CD4^+$ T cells and CD25+ regulatory T cells are presented relative to the total $CD4^+$ T cell population.

Percentages of effector of $CD44^{hi}$ $CD62L^{lo}$ $CD8^+$ T cells and mature $IgD^+$ B cells are presented relative to the total $CD8^+$ T cell and B cell populations respectively.

All samples are acquired on a BD LSR II with dead cells excluded with the use of a viability indicator.

All analysis is performed using FlowJo software.

## Parameters and Metadata

### T cell CD3+ percentage MGP_BCI_001_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** t_cell_cd3_percentage

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## T cell CD4+ percentage MGP_BCI_002_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** t_cell_cd4_percentage

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## Treg cell CD25+ percentage MGP_BCI_003_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** treg_cell_cd25_percentage

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## T cell CD8+ percentage MGP_BCI_004_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** t_cell_cd8_percentage

## NK cell percentage MGP_BCI_005_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** nk_cell_percentage

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## NKT cell percentage MGP_BCI_006_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** nkt_cell_percentage

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## CD4+CD44+CD62L- percentage MGP_BCI_007_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** cd4_cd44_cd62l_percentage

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## CD8+CD44+CD62L- percentage MGP_BCI_008_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** cd8_cd44_cd62l_percentage

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## B cell CD19+ percentage MGP_BCI_009_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** b_cell_cd19_percentage

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## Mature B cell IgD+ percentage MGP_BCI_010_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** mature_b_cell_igd_percentage

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## Granulocyte Gr1+ percentage MGP_BCI_011_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** granulocyte_gr1_percentage

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## Monocyte percentage MGP_BCI_012_001 | v1.0

simpleParameter

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

**Unit Measured:** %

**Description:** monocyte_percentage

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## Equipment manufacturer MGP_BCI_013_001 | v1.0

procedureMetadata

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

**Description:** equipment_manufacturer

**Options:** BD Biosciences, Beckman Coulter,

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## Equipment model MGP_BCI_014_001 | v1.0

procedureMetadata

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

**Description:** equipment_model

**Options:** LSR II, FC500,

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## Anesthesia used for blood collection MGP_BCI_015_001 | v1.0

procedureMetadata

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

**Description:** anesthesia_used_for_blood_collection

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

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## Comment MGP_BCI_016_001 | v1.0

simpleParameter

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

**Description:** comment

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