

# Housing and Husbandry IMPC\_HOU\_001

## Purpose

The housing and husbandry capture form is an institute overview form to capture how the animals are housed and cared for as the environment influences the observed phenotype. The questions have been based on the requirements of the Animal Research: Reporting In Vivo Experiments guidelines (ARRIVE)(Kilkenny PLOS One 2010), Gold Standard Publication Checklist (GSPC) reporting guidelines (Hooijmans ATLA 2010) and the GA passport (RSPCA 2010).

## Notes

Data is collected at a minimum annually by a survey. This survey is then used to generate XML to populate the database.

To account for variation within an institution across pipelines or projects, there is an option to submit up to two blocks of information which are distinguished by the pipeline and project information provided. To account for variation, for an institution, within a pipeline there is an option to submit up to three blocks of information and provide stage information (age and procedures completed) to distinguish the blocks.

## Parameters and Metadata

### Submitter ID IMPC\_HOU\_001\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: submitter\_id

---

### Phenotyping project(s) IMPC\_HOU\_002\_001 | v1.0

seriesParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** phenotyping\_project\_s

**Increments:** Minimum 1

---

## **Pipeline ID(s)** IMPC\_HOU\_003\_001 | v1.0

seriesParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** pipeline\_id\_s

**Increments:** Minimum 1

---

## **Start Date** IMPC\_HOU\_004\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** start\_date

---

## **End Date** IMPC\_HOU\_005\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** end\_date

---

## **Stage of the pipeline(s) - Start Week** IMPC\_HOU\_006\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** stage\_of\_the\_pipeline\_s\_start\_week

---

## **Stage of the pipeline(s) - End Week** IMPC\_HOU\_007\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** stage\_of\_the\_pipeline\_s\_end\_week

---

## **Procedure IDs associated with this block** IMPC\_HOU\_008\_001 | v1

.4

seriesParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** procedure\_ids\_associated\_with\_this\_stage\_of\_the\_pipeline\_s

Increments: Minimum 1

---

## Housing - temperature regulated IMPC\_HOU\_009\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_temperature\_regulated

Options: Yes, No,

---

## Housing - temperature range - Minimum IMPC\_HOU\_010\_001 | v1.

0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: C

Description: housing\_temperature\_range\_minimum

---

## Housing - temperature range - Maximum IMPC\_HOU\_011\_001 | v1

.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** C

**Description:** housing\_temperature\_range\_maximum

---

## **Housing - relative humidity regulated** IMPC\_HOU\_012\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_relative\_humidity\_regulated

**Options:** Yes, No, Seasonally (not in winter),

---

## **Housing - relative humidity range - Minimum** IMPC\_HOU\_013\_0

01 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** housing\_relative\_humidity\_range\_minimum

---

## **Housing - relative humidity range - Maximum** IMPC\_HOU\_014\_0

01 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** %

**Description:** housing\_relative\_humidity\_range\_maximum

---

## **Housing - ventilation managed** IMPC\_HOU\_015\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_ventilation\_managed

**Options:** Negative, Positive, Passive,

---

## **Housing - air changes per hour in the room - Minimum** IMP

C\_HOU\_016\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_air\_changes\_per\_hour\_in\_the\_room\_minimum

---

## Housing - air changes per hour in the room - Maximum IMP

C\_HOU\_017\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_air\_changes\_per\_hour\_in\_the\_room\_maximum

---

## Housing - air changes per hour in the room - Units IMPC\_HO

U\_018\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_air\_changes\_per\_hour\_in\_the\_room\_units

---

## Housing - IVC ventilation IMPC\_HOU\_019\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_ivc\_ventilation

Options: Yes, No,

---

## Housing - air changes per hour in the IVC unit - Minimum

MPC\_HOU\_020\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: housing\_air\_changes\_per\_hour\_in\_the\_ivc\_unit\_minimum

---

## Housing - air changes per hour in the IVC unit - Maximum

IMPC\_HOU\_021\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: housing\_air\_changes\_per\_hour\_in\_the\_ivc\_unit\_maximum

---

## Housing - air changes per hour in the IVC unit - Units

IMPC\_HOU\_022\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: housing\_air\_changes\_per\_hour\_in\_the\_ivc\_unit\_units

---

## Housing - light source

IMPC\_HOU\_023\_001 | v1.0



simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_light\_source

**Options:** LED, Florescent, Incandescent,

---

## Housing - can you quantify the light intensity range experienced IMPC\_HOU\_024\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_can\_you\_quantify\_the\_light\_intensity\_range\_experienced

**Options:** Yes, No,

---

## Housing - light intensity range - Minimum IMPC\_HOU\_025\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** Lux

**Description:** housing\_light\_intensity\_range\_minimum

---

## Housing - light intensity range - Maximum IMPC\_HOU\_026\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: Lux

Description: housing\_light\_intensity\_range\_maximum

---

## Housing - time lights switched on IMPC\_HOU\_027\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_time\_lights\_switched\_on

---

## Housing - time lights switched off IMPC\_HOU\_028\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_time\_lights\_switched\_off

---

## Housing - cage manufacturer and racking system IMPC\_HOU

\_029\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_cage\_manufacturer\_and\_racking\_system

---

## Housing - cage dimensions - Height IMPC\_HOU\_030\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: mm

Description: housing\_cage\_dimensions\_height

---

## Housing - cage dimensions - Length IMPC\_HOU\_031\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: mm

Description: housing\_cage\_dimensions\_length

---

## Housing - cage dimensions - Width IMPC\_HOU\_032\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: mm

Description: housing\_cage\_dimensions\_width

---

## Housing - animals per cage - Minimum IMPC\_HOU\_033\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_animals\_per\_cage\_minimum

---

## Housing - animals per cage - Maximum IMPC\_HOU\_034\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_animals\_per\_cage\_maximum

---

## Housing - bedding type IMPC\_HOU\_035\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_bedding\_type

---

## Housing - bedding pre-treatment IMPC\_HOU\_036\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_bedding\_pre\_treatment

Options: Irradiated, Autoclaved, No treatment,

---

## Housing - cage enrichment IMPC\_HOU\_037\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_cage\_enrichment

---

## Housing - frequency of cage cleaning IMPC\_HOU\_038\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** housing\_frequency\_of\_cage\_cleaning

**Options:** Weekly, Biweekly, As required,

---

## **Housing - frequency of handling** IMPC\_HOU\_039\_001 | v1.1

seriesParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_frequency\_of\_handling

**Increments:** Minimum 1

**Options:** Weekly (assessment), During cage cleaning, During phenotyping procedures,  
During cage cleaning/During phenotyping procedures,

---

## **Nutrition - supplier and product ID of diet** IMPC\_HOU\_040\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** nutrition\_supplier\_and\_product\_id\_of\_diet

---

## **Nutrition - diet type** IMPC\_HOU\_041\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: nutrition\_diet\_type

Options: Natural-ingredient, Chemically-defined, Purified diet,

---

## Nutrition - do you know the composition of the diet (average based on mass) IMPC\_HOU\_042\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description:

nutrition\_do\_you\_know\_the\_composition\_of\_the\_diet\_average\_based\_on\_mass

Options: Yes, No,

---

## Nutrition - average composition (based on mass) - Carbohydrate IMPC\_HOU\_043\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

Description: nutrition\_average\_composition\_based\_on\_mass\_carbohydrate

---

## Nutrition - average composition (based on mass) - Fat IMPC

\_HOU\_044\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

Description: nutrition\_average\_composition\_based\_on\_mass\_fat

---

## Nutrition - average composition (based on mass) - Protein

IMPC\_HOU\_045\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

Description: nutrition\_average\_composition\_based\_on\_mass\_protein

---

## Nutrition - do you know the composition of the diet (average based on calorific content) IMPC\_HOU\_046\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description:

nutrition\_do\_you\_know\_the\_composition\_of\_the\_diet\_average\_based\_on\_calorific\_content



Options: Yes, No,

---

## Nutrition - average composition (based on calorific content) - Carbohydrate IMPC\_HOU\_047\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

Description: nutrition\_average\_composition\_based\_on\_calorific\_content\_carbohydrate

---

## Nutrition - average composition (based on calorific content) - Fat IMPC\_HOU\_048\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: %

Description: nutrition\_average\_composition\_based\_on\_calorific\_content\_fat

---

## Nutrition - average composition (based on calorific content) - Protein IMPC\_HOU\_049\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** %

**Description:** nutrition\_average\_composition\_based\_on\_calorific\_content\_protein

---

## **Nutrition - feeding regime (excluding fasting periods)** IMPC\_HOU\_050\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** nutrition\_feeding\_regime\_excluding\_fasting\_periods

**Options:** Ad libitum, Meal feeding, Restricted,

---

## **Nutrition - source of lipids** IMPC\_HOU\_051\_001 | v1.2

seriesParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** nutrition\_source\_of\_lipids

**Increments:** Minimum 1

**Options:** Fish, Animal, Vegetable,

---

## Water - quality monitored IMPC\_HOU\_052\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: water\_quality\_monitored

Options: Yes, No,

---

## Water - pre-treatment IMPC\_HOU\_053\_001 | v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: water\_pre\_treatment

Increments: Minimum 1

Options: RO, Autoclaved, UV, Acidification, Chlorination, Filter sterilisation, RO + Quiprol treatment, No treatment,

---

## Water - schedule (quantity) IMPC\_HOU\_054\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: water\_schedule\_quantity

Options: Ad libitum, Meal feeding, Restricted,

---

## Water - supply method IMPC\_HOU\_055\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: water\_supply\_method

Options: Bottle, Automatic water system,

---

## Microbiological status - status of your centre IMPC\_HOU\_056\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: microbiological\_status\_status\_of\_your\_centre

Options: SPF, Non-SPF,

---

## Microbiological status - method used to protect the status IMPC\_HOU\_057\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Description:** microbiological\_status\_method\_used\_to\_protect\_the\_status

**Options:** Open-system, Individually ventilated cage racks, Isolation unit,

---

## Microbiological status - closed barrier detail IMPC\_HOU\_058\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** microbiological\_status\_closed\_barrier\_detail

**Options:** No external live animals, Selected commercial sources,  
Selected commercial sources & rederivation or embryo transfer,

---

## Microbiological status - quarantine method IMPC\_HOU\_059\_001

| v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** microbiological\_status\_quarantine\_method

**Options:** Rederivations, Micro testing, None,

---

## Microbiological status - live animals allowed to join the unit

IMPC\_HOU\_060\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: microbiological\_status\_live\_animals\_allowed\_to\_join\_the\_unit

Options: Yes, No,

---

## Microbiological status - acclimation period for live animals - Minimum

IMPC\_HOU\_061\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: week

Description: microbiological\_status\_acclimation\_period\_for\_live\_animals\_minimum

---

## Microbiological status - acclimation period for live animals - Maximum

IMPC\_HOU\_062\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: week

Description: microbiological\_status\_acclimation\_period\_for\_live\_animals\_maximum

---

## Microbiological status - pathogens tested for IMPC\_HOU\_063\_0

01 | v1.0

seriesParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: microbiological\_status\_pathogens\_tested\_for

Increments: Minimum 1

---

## Microbiological status - is your unit positive for any of the pathogens tested IMPC\_HOU\_064\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description:

microbiological\_status\_is\_your\_unit\_positive\_for\_any\_of\_the\_pathogens\_tested

Options: Yes, No,

---

## Microbiological status - pathogens your unit is positive for IMPC\_HOU\_065\_001 | v1.3

seriesParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Description:** microbiological\_status\_pathogens\_your\_unit\_is\_positive\_for

**Increments:** Minimum 1

---

## **Nutrition - do you know the source of lipids** IMPC\_HOU\_066\_001

| v1.3

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Options:** Yes, No,

---

## **Block descriptor** IMPC\_HOU\_067\_001 | v1.1

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

---