

# Housing and Husbandry IMPC\_HOU\_002

## 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

Each unique set of conditions within a specified timeframe is submitted by centres. Each centre may have multiple sets of active conditions within the same time-frame if some animals have different housing conditions depending on e.g. lifestage.

Submission identifier is used to identify a unique submission, and the same identifier is used if a set of conditions have corrected or updated details in a new submission, while new identifiers are used to identify each separate set of conditions.

## Parameters and Metadata

### Pipeline ID(s) IMPC\_HOU\_003\_002 | v2.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** pipeline\_ids\_applicable\_to\_housing\_conditions

**Options:** BCM\_001 + BCMIP\_001 + BCMLA\_001,  
HMGU\_001 + HMGUIP\_001 + HMGULA\_001 + HMGULA\_002,  
HRWL\_001 + HRWLIP\_001 + HRWLLA\_001, ICS\_001 + ICSIP\_001 + ICSLA\_001,  
JAX\_001 + JAXIP\_001 + JAXLA\_001, TCP\_001 + TCPIP\_001 + TCPLA\_001,  
IMPC\_001 + RBRCIP\_001 + RBRCLA\_001, IMPC\_001 + KMPCIP\_001 + KMPCLA\_001,  
CCP\_001, IMPC\_001, TCP\_001,

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## Date effective from IMPC\_HOU\_004\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: date\_effective\_from

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## Date effective until IMPC\_HOU\_005\_002 | v2.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: date\_effective\_until

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## 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,

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## Housing - temperature range IMPC\_HOU\_068\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** C

**Description:** housing\_temperature\_range

**Options:** 18 - 22, 20 - 21, 20 - 24, 19 - 21, 18 - 24, 20 - 22, 19 - 23, 21 - 25, 22 - 25, 20 - 26, 21 - 22,

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## **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),

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## **Housing - relative humidity range** IMPC\_HOU\_069\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** %

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

**Options:** 60 - 70, 30 - 70, 45 - 65, 15 - 80, 44 - 59, 40 - 70, 30 - 55,

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

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_ventilation\_managed

Options: Yes, No,

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## Housing - air changes per hour in the room (range) IMPC\_HO

U\_070\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Unit Measured: ACPH

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

Options: 15 - 20, 10 - 15, 12, 20 - 25, 8 - 15, 12 - 15, 16 - 18,

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## 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,

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## **Housing - air changes per hour in the IVC unit (range)** IMPC\_HOU\_071\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Unit Measured:** ACPH

**Description:** housing\_ivc\_ventilation\_managed

**Options:** 15 - 20, 50 - 75, 60 - 80, 20, 65 - 75, 55 - 75, 30, 75 - 85, 70, 80, 45 - 60, 15 - 18,

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## **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, Fluorescent, Neon,

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## **Housing - light intensity (range)** IMPC\_HOU\_072\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Unit Measured:** Lux

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

**Options:** 100 - 400, 112 - 322, 250 - 650, 400 - 600, 300 - 1200, 150 - 300, Not quantified, 300 - 600, 200 - 350,

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## **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

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## **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

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## **Housing - cage manufacturer** IMPC\_HOU\_073\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_cage\_manufacturer

**Options:** Tecniplast, Thoren, Three shine, CLEA Japan, Animal Care Systems,

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## **Housing - cage model** IMPC\_HOU\_074\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_cage\_model

**Options:** GM500 IVC Green Line, Duplex II, Hi-TPX cage, MINI MVCS,

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## **Housing - Racking system manufacturer** IMPC\_HOU\_075\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_rack\_system\_manufacturer

**Options:** Tecniplast, Thoren, Three shine, CLEA Japan, Animal Care Systems,

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## Housing - cage dimensions (L x W x H, in mm) IMPC\_HOU\_076

\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: mm

Description: housing\_cage\_dimensions\_lxwxh

Options: 160 X 199 X 391, 199 x 391 x 160, 398 x 215 x 187, 308 x 308 x 162,  
240 x 125 x 120, 199 x 391 x 150, 405 x 205 x 158, 245 x 155 x 148, 400 x 147 x 120,  
343 x 292 x 155, 380 x 190 x 160,

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## Housing - animals per cage - Female maximum IMPC\_HOU\_077

\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_female\_animals\_per\_cage\_max

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## Housing - animals per cage - Female minimum IMPC\_HOU\_078

\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_female\_animals\_per\_cage\_min



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## Housing - animals per cage - Male maximum IMPC\_HOU\_079\_0

01 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_male\_animals\_per\_cage\_max

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## Housing - animals per cage - Male minimum IMPC\_HOU\_080\_001

| v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_male\_animals\_per\_cage\_min

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## Housing - bedding type IMPC\_HOU\_035\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: housing\_bedding\_type

**Options:** Aspen wood chips, 1/4 inch corn cob, Pine shavings, Aspen shavings, Poplar wood shavings, Paper, Pelleted cellulose,

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## **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,

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## **Housing - cage enrichment** IMPC\_HOU\_037\_002 | v2.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_cage\_enrichment

**Options:** Nestlets, Houses (paper), Houses (plastic), Tunnel (plastic), Tunnel (cardboard), Shredded paper, Shredded paper / Tunnel (plastic), Shredded paper / Tunnel (cardboard), Nestlets / Tunnel (cardboard), Nestlets if singly housed,

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## **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, Twice weekly, As required, Every two weeks, Every 11 days,

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## Housing - frequency of handling (excluding phenotyping)

IMPC\_HOU\_039\_002 | v2.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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

**Increments:**

**Options:** During cage cleaning, Weekly, Every 3 days,

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## Housing - frequency of animal welfare assessments IMPC\_H

OU\_081\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** housing\_frequency\_of\_animal\_welfare\_assessments

**Options:** Weekly, Every 3 days, Daily,

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## Nutrition - supplier of diet IMPC\_HOU\_082\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: nutrition\_diet\_supplier

Options: Harlan Teklad, Altromin, SAFE, LabDiet, Envigo,  
Jiangsu Xietong Pharmaceutical Bio-engineering, CLEA Japan,

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## Nutrition - product ID of diet IMPC\_HOU\_083\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: nutrition\_product\_id

Options: 2920X, 1314, DO3, DO4, 5K52, 2018S, CE-2, 2918X, 5021, 5V5R,

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## 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,  
Transgenic mouse special food,

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

IMPC\_HOU\_043\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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

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

IMPC\_HOU\_044\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: %

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

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

IMPC\_HOU\_045\_002 | v2.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

**Unit Measured:** %

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

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## **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,

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## **Nutrition - source of lipids** IMPC\_HOU\_051\_002 | v2.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

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

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

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## **Water - pre-treatment** IMPC\_HOU\_053\_002 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Description:** water\_pre\_treatment

**Increments:**

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

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## **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,

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## **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,

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## Microbiological status - status of your centre IMPC\_HOU\_056\_0

01 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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

Options: SPF, Non-SPF,

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## Microbiological status - pathogens testing frequency IMPC\_

HOU\_084\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: microbiological\_testing\_frequency

Options: 3 months, 6 months, 12 months,

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## Phenotyping lifestage IMPC\_HOU\_085\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Description: phenotyping\_lifestage



**Options:** Embryo, In-vivo, FER / VIA, All phenotyping,

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## **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,

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## **Submission Identifier** IMPC\_HOU\_086\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

**Options:** BCM\_1, GMC\_1, H\_1, ICS\_1, J\_1, TCP\_1, RBRC\_1, UCD\_1, KMPC\_1, CCPCZ\_1, TCP\_NorCOMM2, TCP\_KOMP2\_Phase1, TCP\_KOMP2\_Phase2,

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