# 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,

## 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,

## 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_HOU_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_001 | 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 (carboard), 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

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

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## Housing - frequency of animal welfare assessments IMPC_HOU_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

**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_001 | 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,

## 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,

## 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,