

PROVA ORALE A

DOMANDA TEORICA:

IL/LA CANDIDATO/A DESCRIVA LE PROCEDURE PER IMPORTAZIONE, SCAMBIO E TRASPORTO ANIMALI.

DOMANDA INFORMATICA:

IL/LA CANDIDATO/A DESCRIVA LA PROCEDURA PER INVIARE UNA MAIL A DESTINATARI MULTIPLI SENZA MOSTRARE GLI INDIRIZZI.

TESTO INGLESE:

HEALTH EVALUATION OF EXPERIMENTAL LABORATORY MICE
(from doi:10.1002/9780470942390.mo110217)

Good science and good animal care go hand in hand. A sick or distressed animal does not produce the reliable results that a healthy and unstressed animal produces. This unit describes the essentials of assessing mouse health, colony health surveillance, common conditions, and determination of appropriate endpoints. Understanding the health and well-being of the mice used in research enables the investigator to optimize research results and animal care. Both investigative and veterinary staffs monitor the health and well-being of mice that are used in research.

PROVA ORALE B

DOMANDA TEORICA:

IL/LA CANDIDATO/A DESCRIVA LA PROCEDURA DI VALUTAZIONE DEL FENOTIPO DEGLI ANIMALI TRANSGENICI, IN BASE AL CORRIGENDUM DEL 24 GENNAIO 2013.

DOMANDA INFORMATICA:

IL/LA CANDIDATO/A DESCRIVA LA PROCEDURA PER COPIARE UNA PARTE DI UN TESTO IN WORD.

TESTO INGLESE:

THE EFFECT OF TWO DIFFERENT INDIVIDUALLY VENTILATED CAGE SYSTEMS ON ANXIETY-RELATED BEHAVIOUR AND WELFARE IN TWO STRAINS OF LABORATORY MOUSE
(from doi: 10.1016/j.physbeh.2013.10.019)

The environment in which a laboratory animal is housed can significantly influence its behaviour and welfare, acting as a potential confounding factor for those studies in which it is utilised. This study investigated the impact of two Individually Ventilated Cage (IVC) housing systems on anxiety-related behaviour and welfare indicators in two common strains of laboratory mice. [...] results suggest that different IVC housing systems can influence mouse behaviour in different ways, with mice of both strains studied exhibiting more anxiety-related behaviour when housed in System Two (air entry at the 'animal' level at 50 ACH), which could impact upon experimental data.

PROVA ORALE C

DOMANDA TEORICA:

IL/LA CANDIDATO/A DESCRIVA LE PROCEDURE EUTANASICHE COMUNEMENTE UTILIZZATE PER I RODITORI.

DOMANDA INFORMATICA:

IL/LA CANDIDATO/A DESCRIVA LA PROCEDURA PER INSERIRE UNA FUNZIONE O UNA FORMULA IN EXCEL.

TESTO INGLESE:

EFFECTS OF SEPARATED PAIR HOUSING OF FEMALE C57BL/6JRJ MICE ON WELL-BEING

(from doi: 10.1038/s41598-022-12846-6)

In laboratory animal facilities, it is a common code of practice to house female mice in groups. However, some experimental conditions require to house them individually, even though social isolation may impair their well-being. Therefore, we introduced a separated pair housing system and investigated whether it can refine single housing of adult female C57BL/6JRj mice. [...] the transfer to the separated pair housing system caused short-term stress responses in female C57BL/6JRj mice. Long-term effects of separated pair housing were ambiguous. On one hand, separated pair housing increased nesting and burrowing behavior and may therefore be beneficial compared to single housing. But on the other hand, locomotor activity decreased.

PROVA ORALE D

DOMANDA TEORICA:

IL/LA CANDIDATO/A DESCRIVA LE PRINCIPALI FIGURE PROFESSIONALI NECESSARIE IN UNO STABILIMENTO UTILIZZATORE.

DOMANDA INFORMATICA:

IL/LA CANDIDATO/A DESCRIVA L'USO DELLA FUNZIONE INCOLLA SPECIALE IN WORD.

TESTO INGLESE:

A MULTICENTRE STUDY ON SPONTANEOUS IN-CAGE ACTIVITY AND MICRO-ENVIRONMENTAL CONDITIONS OF IVC HOUSED C57BL/6J MICE DURING CONSECUTIVE CYCLES OF BI-WEEKLY CAGE-CHANGE (from doi: 10.1371/journal.pone.0267281)

Mice respond to a cage change (CC) with altered activity, disrupted sleep and increased anxiety. A bi-weekly cage change is, therefore, preferred over a shorter CC interval and is currently the prevailing routine for Individually ventilated cages (IVCs). However, the build-up of ammonia (NH₃) during this period is a potential threat to the animal health and the literature holds conflicting reports leaving this issue unresolved. [...] We conclude that housing of four (or equivalent biomass) C57BL/6J mice for 10 weeks under the described conditions does not cause any overt discomfort to the animals.

PROVA ORALE E

DOMANDA TEORICA:

IL/LA CANDIDATO/A DESCRIVA BREVEMENTE I REGISTRI DEGLI ANIMALI, EVIDENZIANDO VANTAGGI E SVANTAGGI DELLA PIATTAFORMA BDNS.

DOMANDA INFORMATICA:

IL/LA CANDIDATO/A DESCRIVA LA PROCEDURA PER VERIFICARE EVENTUALI DIFFERENZE TRA DUE DOCUMENTI IN WORD.

TESTO INGLESE:

EVALUATION OF DIFFERENT TYPES OF ENRICHMENT - THEIR USAGE AND EFFECT ON HOME CAGE BEHAVIOR IN FEMALE MICE
(from doi: 10.1371/journal.pone.0261876)

Numerous studies ascertained positive effects of enriched environments on the well-being of laboratory animals including behavioral, physiological and neurochemical parameters. Conversely, such conclusions imply impaired animal welfare and health in barren husbandry conditions. Moreover, inappropriate housing of laboratory animals may deteriorate the quality of scientific data. Recommendations for housing laboratory animals stipulate that cages should be enriched to mitigate adverse effects of barren housing. [...] This is particularly important, as the ensuring of animal welfare is an essential prerequisite for reliable, reproducible, and scientifically meaningful results.