SECTION 2: ALL USES OF ANIMALS FOR RESEARCH, TESTING, ROUTINE PRODUCTION AND EDUCATION AND TRAINING PURPOSES - TRENDS

Excludes the uses of animals for the creation and maintenance of genetically altered animals.

FILTERS

Reporting year:2023

Country:All

EC ID:All

File name:All

EU Submission:Yes

ID 1:All

ID 2:All

ID 3:All

Species:All

Other species:All

Species grouping level 1:All

Species grouping level 2:All

Mammals:All

Non-human primates:All

Reuse:All

Place of birth:All

NHP Place of birth:All

NHP Colony type: Self-sustaining colony:All

NHP generation:All

Genetic status:All

Purpose:All

Purpose category level 1:All

Purpose category level 2:All

Purpose category level 3:All

Purpose category level 4:All

Type of legislation:All

Other legislation:All

Origin of legislation:All

Severity:All

Custom severity:All

Method of tissue sampling:All

Severity of genotyping:All

ALL USES OF ANIMALS

Uses of animals by species

Species	2023
Mice	138861
Rats	23574
Guinea-Pigs	1639
Hamsters (Syrian)	106
Rabbits	1870
Dogs	473
Horses, donkeys and cross-breeds	33
Pigs	12997
Goats	2
Sheep	74
Cattle	4608
Other mammals	21
Domestic fowl	2659
Other birds	420
Reptiles	124
Xenopus	490
Other amphibians	109
Zebra fish	6427
Sea bass	5
Salmon, trout, chars and graylings	12817
Other fish	533
Total	**207842**

Excel

Uses of animals by severity

Severity	2023
Non-recovery	8849
Mild [up to and including]	91780
Moderate	104135
Severe	3078
Total	**207842**

Excel

Proportions of uses of animals by severity

Severity		2023
Non-recovery		4.26%
Mild [up to and including]		44.16%
Moderate		50.1%
Severe		1.48%
Total		**100%**

Excel

Uses of animals by genetic status

Genetic status	2023
Not genetically altered	162201
Genetically altered without a harmful phenotype	38307
Genetically altered with a harmful phenotype	7334
Total	**207842**

Excel

Uses of animals by genetic status

Genetic status	2023
Not genetically altered	162201
Genetically altered without a harmful phenotype	38307
Genetically altered with a harmful phenotype	7334
Total	**207842**

Proportions of uses of animals by genetic status

Genetic status	2023
Not genetically altered	78.04%
Genetically altered without a harmful phenotype	18.43%
Genetically altered with a harmful phenotype	3.53%
Total	**100%**

Excel

Reuse of animals

Reuse	2023
No	204099
Yes	3743
Total	**207842**

Excel

Proportions of reuse of animals

Reuse		2023
No		98.2%
Yes		1.8%
Total		**100%**

Excel

ALL USES OF ANIMALS BY SPECIES CATEGORY

Species category level 1

Species category	2023
Warm-blooded vertebrates	187337
Cold-blooded vertebrates	20505
Total	**207842**

Excel

ALL USES OF ANIMALS BY SPECIES CATEGORY

Species category level 1

Species category	2023
Warm-blooded vertebrates	187337
Cold-blooded vertebrates	20505

Proportions of species category level 1

Species category		2023
Warm-blooded vertebrates		90.13%
Cold-blooded vertebrates		9.87%
Total		**100%**

Excel

Species category level 2

Species category		2023
Amphibians		599
Birds		3079
Fish		19782
Mammals		184258
Reptiles		124
Total		**207842**

Excel

Species category level 2

Species category		2023
Amphibians		599
Birds		3079
Fish		19782
Mammals		184258
Reptiles		124

Proportions of species category level 2

Species category		2023
Amphibians		0.29%
Birds		1.48%
Fish		9.52%
Mammals		88.65%
Reptiles		0.06%
Total		**100%**

Excel

Uses of mammals

Species	2023
Mice	138861
Rats	23574
Guinea-Pigs	1639
Hamsters (Syrian)	106
Rabbits	1870
Dogs	473
Horses, donkeys and cross-breeds	33
Pigs	12997
Goats	2
Sheep	74
Cattle	4608
Other mammals	21
Total	**184258**

Excel

Proportions of uses of mammals

Species		2023
Mice		75.36%
Rats		12.79%
Guinea-Pigs		0.89%
Hamsters (Syrian)		0.06%
Rabbits		1.01%
Dogs		0.26%
Horses, donkeys and cross-breeds		0.02%
Pigs		7.05%
Goats		0%
Sheep		0.04%
Cattle		2.5%
Other mammals		0.01%
Total		**100%**

Excel

Uses of non-human primates

Species	
No data available in table	

Excel

Proportions of uses of non-human primates

Species	◆
No data available in table	

Excel

Proportions of uses of non-human primates

Species	◆
No data available in table	

Excel

USES OF ANIMALS BY MAIN CATEGORIES OF SCIENTIFIC PURPOSES

Uses of animals by main categories of scientific purposes

Purpose	2023
Basic Research	63625
Translational and applied research	122274
Regulatory use and Routine production	13816
Protection of the natural environment in the interests of the health or welfare of human beings or animals	3685
Preservation of species	350
Higher education	2819
Training for the acquisition, maintenance or improvement of vocational skills	1180
Forensic enquiries	93
Total	**207842**

Excel

USES OF ANIMALS BY MAIN CATEGORIES OF SCIENTIFIC PURPOSES

Uses of animals by main categories of scientific purposes

Purpose	2023

BASIC RESEARCH RELATED USES

Basic research related uses

Purpose	2023
Oncology	7558
Cardiovascular Blood and Lymphatic System	2470
Nervous System	13640
Respiratory System	717
Gastrointestinal System including Liver	5867
Musculoskeletal System	1000
Immune System	10466
Urogenital/Reproductive System	1828
Sensory Organs (skin, eyes and ears)	693
Endocrine System/Metabolism	12757
Developmental Biology	393
Multisystemic	4046
Ethology / Animal Behaviour /Animal Biology	179
Other basic research	2011
Total	**63625**

Excel

TRANSLATIONAL AND APPLIED RESEARCH RELATED USES

Translational and applied research related uses

Purpose	2023
Human Cancer	17214
Human Infectious Disorders	6413
Human Cardiovascular Disorders	3953
Human Nervous and Mental Disorders	23286
Human Respiratory Disorders	3753
Human Gastrointestinal Disorders including Liver	2243
Human Musculoskeletal Disorders	808
Human Immune Disorders	3493
Human Urogenital/Reproductive Disorders	7654
Human Sensory Organ Disorders (skin, eyes and ears)	805
Human Endocrine/Metabolism Disorders	24461
Other Human Disorders	3230
Animal Diseases and Disorders	12589
Animal Nutrition	624
Animal Welfare	6592
Diagnosis of diseases	3066
Non-regulatory toxicology and ecotoxicology	2090
Total	**122274**

Excel

ROUTINE PRODUCTION USES

Routine production uses

Purpose		2023
Blood based products		190
Monoclonal and polyclonal antibodies (excluding ascites method)		1415
Other product types		1521
Total		**3126**

Excel

REGULATORY USES

Regulatory uses

Purpose	2023
Quality control (incl batch safety and potency testing)	4605
Other efficacy and tolerance testing	168
Toxicity and other safety testing including pharmacology	5917
Total	**10690**

Excel

Regulatory uses by type of legislation

Type of legislation		2023
Industrial chemicals legislation		2251
Legislation on medicinal products for human use		8411
Medical devices legislation		28
Total		**10690**

Excel

Proportions of regulatory uses by type of legislation

Type of legislation		2023
Industrial chemicals legislation		21.06%
Legislation on medicinal products for human use		78.68%
Medical devices legislation		0.26%
Total		**100%**

Excel

Type of legislation		2023
Industrial chemicals legislation		21.06%
Legislation on medicinal products for human use		78.68%
Medical devices legislation		0.26%
Total		**100%**

Regulatory uses by regulatory requirement

Type of requirement	2023
Legislation satisfying EU requirements	10690
Total	**10690**

Excel

Type of requirement	2023
Legislation satisfying EU requirements	10690
Total	**10690**

Excel

Proportions of regulatory uses by regulatory requirement

Type of requirement		2023
Legislation satisfying EU requirements		100%
Total		**100%**

Excel

REGULATORY USES: QUALITY CONTROL (INCLUDING BATCH SAFETY AND POTENCY TESTING)

Regulatory uses: Quality control

Purpose	2023
Batch safety testing	910
Batch potency testing	3695
Total	**4605**

Excel

REGULATORY USES: TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY

Regulatory uses: Toxicity

Purpose	2023
Skin sensitisation	16
Repeated dose toxicity	2214
Genotoxicity	60
Kinetics	257
Pharmaco-dynamics (incl safety pharmacology)	611
Ecotoxicity	2548
Other toxicity/safety testing	211
Total	**5917**

Excel

REGULATORY USES : TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: ACUTE AND SUB-ACUTE TOXICITY TESTING METHODS

Regulatory uses: Toxicity: Acute and sub-acute

Purpose ⬦
No data available in table

Excel

REGULATORY USES : TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: ACUTE AND SUB-ACUTE TOXICITY TESTING METHODS

Regulatory uses: Toxicity: Acute and sub-acute

Purpose ⬦
No data available in table

Excel

REGULATORY USES: TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: REPEATED DOSE TOXICITY

Regulatory uses: Toxicity: Repeated dose

Purpose	2023
up to 28 days	1707
29 - 90 days	274
> 90 days	233
Total	**2214**

Excel

REGULATORY USES: TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: ECOTOXICITY

Regulatory uses: Toxicity: Ecotoxicity

Purpose	2023
Acute toxicity	297
Chronic toxicity	2251
Total	**2548**

Excel