

EU Statistical Data of all uses of animals

Member State: Denmark

Year: 2020

All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	156,705	59.87%
Rats	33,349	12.74%
Guinea-Pigs	2,249	0.86%
Hamsters (Syrian)	111	0.04%
Hamsters (Chinese)		
Mongolian gerbil		
Other rodents		
Rabbits	2,344	0.90%
Cats	6	0.00%
Dogs	589	0.23%
Ferrets		
Other carnivores	6,128	2.34%
Horses, donkeys and cross-breeds	16	0.01%
Pigs	8,816	3.37%
Goats	27	0.01%
Sheep	67	0.03%
Cattle	743	0.28%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey		
Vervets (Chlorocebus spp.)		
Baboons		
Squirrel monkey		
Other species of Old World Monkeys (Cercopithecoidea)		
Other species of New World Monkeys (Ceboidea)		
Apes		
Other mammals	36	0.01%
Domestic fowl	621	0.24%
Other birds	401	0.15%
Reptiles	24	0.01%
Rana	792	0.30%
Xenopus	390	0.15%
Other amphibians	16	0.01%
Zebra fish	8,539	3.26%
Other fish	39,781	15.20%
Cephalopods		
Total uses	261,750	100.00%

Origin as registered at the first use

Place of Birth	Number of uses	Percentage
Animals born in the EU at a registered breeder	186,563	71.92%
Animals born in the EU but not at a registered breeder	67,045	25.85%
Animals born in rest of Europe	483	0.19%
Animals born in rest of world	5,320	2.05%
Total uses	259,411	100.00%

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU		
Animals born in rest of Europe		
Animals born in Asia		
Animals born in America		
Animals born in Africa		
Animals born elsewhere		
Total uses		

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater		
Self-sustaining colony		
Total uses		

Purpose for which animals are used

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Purpose for which animals are used

Purpose Category level 1	Number of uses	Percentage
Basic Research	84,354	32.23%
Translational and applied research	142,008	54.25%
Regulatory use and Routine production	20,426	7.80%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	3,031	1.16%
Preservation of species	913	0.35%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	3,831	1.46%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	7,187	2.75%
Total uses	261,750	100.00%

Basic Research	Number of uses	Percentage
Oncology	10,469	12.41%
Cardiovascular Blood and Lymphatic System	3,126	3.71%
Nervous System	17,732	21.02%
Respiratory System	859	1.02%
Gastrointestinal System including Liver	7,435	8.81%
Musculoskeletal System	1,334	1.58%
Immune System	16,942	20.08%
Urogenital/Reproductive System	2,396	2.84%
Sensory Organs (skin, eyes and ears)	522	0.62%
Endocrine System/Metabolism	14,100	16.72%
Multisystemic	1,970	2.34%
Ethology / Animal Behaviour /Animal Biology	659	0.78%
Other basic research	6,810	8.07%
Total uses	84,354	100.00%

Translational and applied research	Number of uses	Percentage
Human Cancer	18,838	13.27%
Human Infectious Disorders	10,334	7.28%
Human Cardiovascular Disorders	4,031	2.84%
Human Nervous and Mental Disorders	20,014	14.09%
Human Respiratory Disorders	316	0.22%
Human Gastrointestinal Disorders including Liver	2,087	1.47%
Human Musculoskeletal Disorders	860	0.61%
Human Immune Disorders	4,509	3.18%
Human Urogenital/Reproductive Disorders	2,275	1.60%
Human Sensory Organ Disorders (skin, eyes and ears)	208	0.15%
Human Endocrine/Metabolism Disorders	30,931	21.78%
Other Human Disorders	1,742	1.23%
Animal Diseases and Disorders	35,931	25.30%
Animal Welfare	7,222	5.09%
Diagnosis of diseases	870	0.61%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	1,840	1.30%
Total uses	142,008	100.00%

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Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	15,544	76.10%
Other efficacy and tolerance testing	1,091	5.34%
Toxicity and other safety testing including pharmacology	2,733	13.38%
Routine production	1,058	5.18%
Total uses	20,426	100.00%

Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	2,366	15.22%
Pyrogenicity testing		
Batch potency testing	13,137	84.51%
Other quality controls	41	0.26%
Total uses	15,544	100.00%

Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	26	0.95%
Skin irritation/corrosion	3	0.11%
Skin sensitisation	32	1.17%
Eye irritation/corrosion		
Repeated dose toxicity	1,662	60.81%
Carcinogenicity		
Genotoxicity		
Reproductive toxicity		
Developmental toxicity	6	0.22%
Neurotoxicity		
Kinetics	253	9.26%
Pharmaco-dynamics (incl safety pharmacology)	751	27.48%
Phototoxicity		
Ecotoxicity		
Safety testing in food and feed area		
Target animal safety		
Other toxicity/safety testing		
Total uses	2,733	100.00%

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Acute and sub-acute toxicity testing methods	Number of uses	Percentage
LD50, LC50		
Other lethal methods		
Non lethal methods	26	100.00%
Total uses	26	100.00%

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Repeated dose toxicity	Number of uses	Percentage
up to 28 days	866	52.11%
29 - 90 days	502	30.20%
> 90 days	294	17.69%
Total uses	1,662	100.00%

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity		
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
Total uses		

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Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	996	94.14%
Monoclonal antibody by mouse ascites method		
Other product types	62	5.86%
Total uses	1,058	100.00%

Use of animals to meet legislative requirements

Testing by Legislation	Number of uses	Percentage
Legislation on medicinal products for human use	19,712	96.50%
Legislation on medicinal products for veterinary use and their residues		
Medical devices legislation	666	3.26%
Industrial chemicals legislation		
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material		
Feed legislation including legislation for the safety of target animals, workers and environment		
Cosmetics legislation		
Other legislation	48	0.23%
Total uses	20,426	100.00%

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	20,344	99.60%
Legislation satisfying national requirements only [within EU]	48	0.23%
Legislation satisfying Non-EU requirements only	34	0.17%
Total uses	20,426	100.00%

First use and re-use

Re-Use	Number of uses	Percentage
No	259,411	99.11%
Yes	2,339	0.89%
Total uses	261,750	100.00%

Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	260,462	99.51%
Yes	1,288	0.49%
Total uses	261,750	100.00%

Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	7,994	3.05%
Mild [up to and including]	130,227	49.75%
Moderate	119,742	45.75%
Severe	3,787	1.45%
Total uses	261,750	100.00%

Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	222,721	85.09%
Genetically altered without a harmful phenotype	33,043	12.62%
Genetically altered with a harmful phenotype	5,986	2.29%
Total uses	261,750	100.00%