Member State: Denmark

All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	177,971	69.83%
Rats	37,280	14.63%
Guinea-Pigs	2,659	1.04%
Hamsters (Syrian)	292	0.11%
Hamsters (Chinese)		
Mongolian gerbil		
Other Rodents	13	0.01%
Rabbits	3,116	1.22%
Cats	3	0.00%
Dogs	370	0.15%
Ferrets		
Other carnivores	3,347	1.31%
Horses, donkeys & cross-breeds	181	0.07%
Pigs	7,643	3.00%
Goats	13	0.01%
Sheep	78	0.03%
Cattle	1,999	0.78%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey		
Vervets Chlorocebus spp.		
Baboons		
Squirrel monkey		
Other species of New World Monkeys (Ceboidea)		
Other species of Old World Monkeys (Cercopithecoidea)		
Other species of non-human primates		
Apes		
Other Mammals	29	0.01%
Domestic fowl	2,283	0.90%
Other birds	559	0.22%
Reptiles	155	0.06%
Rana	809	0.32%
Xenopus	1,389	0.55%
Other Amphibians	94	0.04%
Zebra fish	2,677	1.05%
Other Fish	11,888	4.66%
Cephalopods		
Total uses	254,848	100.00%

Year: 2018

Origin as registered at the first use

Place of Birth	Number of uses	Percentage
Animals born in the EU at a registered breeder	216,478	86.68%
Animals born in the EU but not at a registered breeder	23,727	9.50%
Animals born in rest of Europe	2,866	1.15%
Animals born in rest of world	6,676	2.67%
Total uses	249,747	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

Purpose Category level 1	Number of uses	Percentage
Basic Research	105,655	41.46%
Translational and applied research	117,116	45.96%
Regulatory use and Routine production	24,225	9.51%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	1,598	0.63%
Preservation of species	943	0.37%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	5,132	2.01%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	179	0.07%
Total uses	254,848	100.00%

Basic Research	Number of uses	Percentage
Oncology	22,010	20.83%
Cardiovascular Blood and Lymphatic System	5,251	4.97%
Nervous System	16,026	15.17%
Respiratory System	2,608	2.47%
Gastrointestinal System including Liver	3,682	3.48%
Musculoskeletal System	2,935	2.78%
Immune System	25,598	24.23%
Urogenital/Reproductive System	1,238	1.17%
Sensory Organs (skin, eyes and ears)	401	0.38%
Endocrine System/Metabolism	11,514	10.90%
Multisystemic	573	0.54%
Ethology / Animal Behaviour /Animal Biology	6,370	6.03%
Other basic research	7,449	7.05%
Total uses	105,655	100.00%

Translational and applied research	Number of uses	Percentage
Human Cancer	8,285	7.07%
Human Infectious Disorders	7,899	6.74%
Human Cardiovascular Disorders	4,200	3.59%
Human Nervous and Mental Disorders	27,344	23.35%
Human Respiratory Disorders	48	0.04%
Human Gastrointestinal Disorders including Liver	303	0.26%
Human Musculoskeletal Disorders	458	0.39%
Human Immune Disorders	2,678	2.29%
Human Urogenital/Reproductive Disorders	904	0.77%
Human Sensory Organ Disorders (skin, eyes and ears)	126	0.11%
Human Endocrine/Metabolism Disorders	44,747	38.21%
Other Human Disorders	6,537	5.58%
Animal Diseases and Disorders	9,314	7.95%
Animal Welfare	2,516	2.15%
Diagnosis of diseases	1,231	1.05%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	526	0.45%
Total uses	117,116	100.00%

Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	18,545	76.55%
Other efficacy and tolerance testing	619	2.56%
Toxicity and other safety testing including pharmacology	4,275	17.65%
Routine production	786	3.24%
Total uses	24,225	100.00%
Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	3,484	18.79%
Pyrogenicity testing		
Batch potency testing	15,061	81.21%
Other quality controls		
Total uses	18,545	100.00%
Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	160	3.74%
Skin irritation/corrosion	16	0.37%
Skin sensitisation	118	2.76%
Eye irritation/corrosion		
Repeated dose toxicity	2,292	53.61%
Carcinogenicity		
Genotoxicity		
Reproductive toxicity	480	11.23%
Developmental toxicity		
Neurotoxicity		
Kinetics	361	8.44%
Pharmaco-dynamics (incl safety pharmacology)	687	16.07%
Phototoxicity		
Ecotoxicity	154	3.60%
Safety testing in food and feed area		
Target animal safety		
Other toxicity/safety testing	7	0.16%
Total uses	4,275	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	160	100.00%
Total uses	160	100.00%
Regulatory use and routine production – Toxicity and other safety testing including	Number of uses	Percentage

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	160	100.00%
Total uses	160	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	1,174	51.22%
29 - 90 days	895	39.05%
> 90 days	223	9.73%
Total uses	2,292	100.00%
Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	154	100.00%
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
Total uses	154	100.00%

Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	786	100.00%
Monoclonal antibody by mouse ascites method		
Other product types		
Total uses	786	100.00%

Use of animals to meet legislative requirements

Testing by Legislation	Number of uses	Percentage
Legislation on medicinal products for human use	22,960	94.78%
Legislation on medicinal products for veterinary use and their residues		
Medical devices legislation	351	1.45%
Industrial chemicals legislation	634	2.62%
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	280	1.16%
Total uses	24,225	100.00%

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	24,225	100.00%
Legislation satisfying national requirements only [within EU]		
Legislation satisfying Non-EU requirements only		
Total uses	24.225	100.00%

First use and re-use

Re-Use	Number of uses	Percentage
No	249,747	98.00%
Yes	5,101	2.00%
Total uses	254.848	100.00%

Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	14,125	5.54%
Mild [up to and including]	155,583	61.05%
Moderate	82,231	32.27%
Severe	2,909	1.14%
Total uses	254,848	100.00%

Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	250,918	98.46%
Yes	3,930	1.54%
Total uses	254,848	100.00%

Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	214,436	84.14%
Genetically altered without a harmful phenotype	29,991	11.77%
Genetically altered with a harmful phenotype	10,421	4.09%
Total uses	254,848	100.00%