

EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2020

All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	251,913	57.61%
Rats	13,760	3.15%
Guinea-Pigs	11,656	2.67%
Hamsters (Syrian)	2,985	0.68%
Hamsters (Chinese)		
Mongolian gerbil	14	0.00%
Other rodents	213	0.05%
Rabbits	70,761	16.18%
Cats	253	0.06%
Dogs	1,519	0.35%
Ferrets		
Other carnivores		
Horses, donkeys and cross-breeds	199	0.05%
Pigs	5,767	1.32%
Goats	69	0.02%
Sheep	503	0.12%
Cattle	2,329	0.53%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey	36	0.01%
Vervets (Chlorocebus spp.)		
Baboons		
Squirrel monkey		
Other species of Old World Monkeys (Cercopithecoidea)		
Other species of New World Monkeys (Ceboidea)		
Apes		
Other mammals	110	0.03%
Domestic fowl	41,115	9.40%
Other birds	4,831	1.10%
Reptiles	105	0.02%
Rana		
Xenopus	957	0.22%
Other amphibians	54	0.01%
Zebra fish	22,804	5.22%
Other fish	5,322	1.22%
Cephalopods		
Total uses	437,275	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	406,266	93.59%
Animals born in the EU but not at a registered breeder	24,707	5.69%
Animals born in rest of Europe	345	0.08%
Animals born in rest of world	2,761	0.64%
Total uses	434,079	100.00%

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	4	66.67%
Animals born in rest of Europe		
Animals born in Asia		
Animals born in America	2	33.33%
Animals born in Africa		
Animals born elsewhere		
Total uses	6	100.00%

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater	6	100.00%
Self-sustaining colony		
Total uses	6	100.00%

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	168,821	38.61%
Translational and applied research	120,505	27.56%
Regulatory use and Routine production	127,262	29.10%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	743	0.17%
Preservation of species	371	0.08%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	3,827	0.88%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	15,746	3.60%
Total uses	437,275	100.00%

Basic Research	Number of uses	Percentage
Oncology	40,181	23.80%
Cardiovascular Blood and Lymphatic System	9,645	5.71%
Nervous System	22,108	13.10%
Respiratory System	5,090	3.02%
Gastrointestinal System including Liver	17,033	10.09%
Musculoskeletal System	5,632	3.34%
Immune System	40,828	24.18%
Urogenital/Reproductive System	4,408	2.61%
Sensory Organs (skin, eyes and ears)	1,789	1.06%
Endocrine System/Metabolism	8,433	5.00%
Multisystemic	5,103	3.02%
Ethology / Animal Behaviour /Animal Biology	2,430	1.44%
Other basic research	6,141	3.64%
Total uses	168,821	100.00%

Translational and applied research	Number of uses	Percentage
Human Cancer	19,769	16.41%
Human Infectious Disorders	13,798	11.45%
Human Cardiovascular Disorders	1,738	1.44%
Human Nervous and Mental Disorders	22,278	18.49%
Human Respiratory Disorders	5,068	4.21%
Human Gastrointestinal Disorders including Liver	1,864	1.55%
Human Musculoskeletal Disorders	592	0.49%
Human Immune Disorders	3,413	2.83%
Human Urogenital/Reproductive Disorders	783	0.65%
Human Sensory Organ Disorders (skin, eyes and ears)	3,187	2.64%
Human Endocrine/Metabolism Disorders	1,524	1.26%
Other Human Disorders	1,242	1.03%
Animal Diseases and Disorders	27,406	22.74%
Animal Welfare	9,545	7.92%
Diagnosis of diseases	4,124	3.42%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	4,174	3.46%
Total uses	120,505	100.00%

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Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	45,709	35.92%
Other efficacy and tolerance testing	18,353	14.42%
Toxicity and other safety testing including pharmacology	3,404	2.67%
Routine production	59,796	46.99%
Total uses	127,262	100.00%

Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	4,786	10.47%
Pyrogenicity testing		
Batch potency testing	36,849	80.62%
Other quality controls	4,074	8.91%
Total uses	45,709	100.00%

Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	364	10.69%
Skin irritation/corrosion		
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	534	15.69%
Carcinogenicity		
Genotoxicity	81	2.38%
Reproductive toxicity		
Developmental toxicity		
Neurotoxicity	22	0.65%
Kinetics	861	25.29%
Pharmaco-dynamics (incl safety pharmacology)	29	0.85%
Phototoxicity		
Ecotoxicity	596	17.51%
Safety testing in food and feed area	356	10.46%
Target animal safety	546	16.04%
Other toxicity/safety testing	15	0.44%
Total uses	3,404	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	74	20.33%
Other lethal methods		
Non lethal methods	290	79.67%
Total uses	364	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	514	96.25%
29 - 90 days	20	3.75%
> 90 days		
Total uses	534	100.00%

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	596	100.00%
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
Total uses	596	100.00%

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Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	59,728	99.89%
Monoclonal antibody by mouse ascites method		
Other product types	68	0.11%
Total uses	59,796	100.00%

Use of animals to meet legislative requirements

Testing by Legislation	Number of uses	Percentage
Legislation on medicinal products for human use	103,180	81.08%
Legislation on medicinal products for veterinary use and their residues	22,863	17.97%
Medical devices legislation	277	0.22%
Industrial chemicals legislation		
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material	60	0.05%
Feed legislation including legislation for the safety of target animals, workers and environment	20	0.02%
Cosmetics legislation		
Other legislation	862	0.68%
Total uses	127,262	100.00%

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	119,188	93.66%
Legislation satisfying national requirements only [within EU]		
Legislation satisfying Non-EU requirements only	8,074	6.34%
Total uses	127,262	100.00%

First use and re-use

Re-Use	Number of uses	Percentage
No	434,085	99.27%
Yes	3,190	0.73%
Total uses	437,275	100.00%

Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	411,974	94.21%
Yes	25,301	5.79%
Total uses	437,275	100.00%

Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	9,464	2.16%
Mild [up to and including]	241,487	55.23%
Moderate	139,284	31.85%
Severe	47,040	10.76%
Total uses	437,275	100.00%

Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	313,625	71.72%
Genetically altered without a harmful phenotype	104,843	23.98%
Genetically altered with a harmful phenotype	18,807	4.30%
Total uses	437,275	100.00%