

EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2016

All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	336,189	62.84%
Rats	30,337	5.67%
Guinea-Pigs	16,223	3.03%
Hamsters (Syrian)	1,880	0.35%
Hamsters (Chinese)		
Mongolian gerbil	118	0.02%
Other Rodents	175	0.03%
Rabbits	48,036	8.98%
Cats	123	0.02%
Dogs	1,529	0.29%
Ferrets	13	0.00%
Other carnivores		
Horses, donkeys & cross-breeds	231	0.04%
Pigs	3,630	0.68%
Goats	101	0.02%
Sheep	581	0.11%
Cattle	1,279	0.24%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey	40	0.01%
Vervets Chlorocebus spp.		
Baboons		
Squirrel monkey		
Other species of New World Monkeys (Cebioidea)		
Other species of Old World Monkeys (Cercopithecoidea)		
Other species of non-human primates		
Apes		
Other Mammals	153	0.03%
Domestic fowl	26,230	4.90%
Other birds	4,504	0.84%
Reptiles	172	0.03%
Rana		
Xenopus	769	0.14%
Other Amphibians	457	0.09%
Zebra fish	37,256	6.96%
Other Fish	24,965	4.67%
Cephalopods		
Total uses	534,991	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	494,957	93.95%
Animals born in the EU but not at a registered breeder	26,817	5.09%
Animals born in rest of Europe	48	0.01%
Animals born in rest of world	5,034	0.96%
Total uses	526,856	100.00%

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

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater	4	100.00%
Self-sustaining colony		
Total uses	4	100.00%

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Purpose for which animals are used

Purpose Category level 1	Number of uses	Percentage
Basic Research	283,876	53.06%
Translational and applied research	105,760	19.77%
Regulatory use and Routine production	132,925	24.85%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	1,006	0.19%
Preservation of species	6	0.00%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	8,819	1.65%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	2,599	0.49%
Total uses	534,991	100.00%

Basic Research	Number of uses	Percentage
Oncology	54,616	19.24%
Cardiovascular Blood and Lymphatic System	14,443	5.09%
Nervous System	56,699	19.97%
Respiratory System	6,121	2.16%
Gastrointestinal System including Liver	19,837	6.99%
Musculoskeletal System	5,877	2.07%
Immune System	50,277	17.71%
Urogenital/Reproductive System	11,536	4.06%
Sensory Organs (skin, eyes and ears)	3,772	1.33%
Endocrine System/Metabolism	18,300	6.45%
Multisystemic	10,342	3.64%
Ethology / Animal Behaviour /Animal Biology	19,464	6.86%
Other basic research	12,592	4.44%
Total uses	283,876	100.00%

Translational and applied research	Number of uses	Percentage
Human Cancer	18,857	17.83%
Human Infectious Disorders	18,443	17.44%
Human Cardiovascular Disorders	920	0.87%
Human Nervous and Mental Disorders	22,383	21.16%
Human Respiratory Disorders	3,243	3.07%
Human Gastrointestinal Disorders including Liver	1,328	1.26%
Human Musculoskeletal Disorders	1,047	0.99%
Human Immune Disorders	2,329	2.20%
Human Urogenital/Reproductive Disorders	284	0.27%
Human Sensory Organ Disorders (skin, eyes and ears)	3,290	3.11%
Human Endocrine/Metabolism Disorders	2,634	2.49%
Other Human Disorders	232	0.22%
Animal Diseases and Disorders	12,467	11.79%
Animal Welfare	1,514	1.43%
Diagnosis of diseases	6,481	6.13%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	10,308	9.75%
Total uses	105,760	100.00%

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Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	82,222	61.86%
Other efficacy and tolerance testing	3,345	2.52%
Toxicity and other safety testing including pharmacology	5,467	4.11%
Routine production	41,891	31.51%
Total uses	132,925	100.00%

Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	12,844	15.62%
Pyrogenicity testing		
Batch potency testing	66,345	80.69%
Other quality controls	3,033	3.69%
Total uses	82,222	100.00%

Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	392	7.17%
Skin irritation/corrosion		
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	964	17.63%
Carcinogenicity		
Genotoxicity	83	1.52%
Reproductive toxicity		
Developmental toxicity	1,697	31.04%
Neurotoxicity	30	0.55%
Kinetics	465	8.51%
Pharmaco-dynamics (incl safety pharmacology)		
Phototoxicity		
Ecotoxicity	358	6.55%
Safety testing in food and feed area	1,451	26.54%
Target animal safety	8	0.15%
Other toxicity/safety testing	19	0.35%
Total uses	5,467	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	392	100.00%
Total uses	392	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	864	89.63%
29 - 90 days	92	9.54%
> 90 days	8	0.83%
Total uses	964	100.00%

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	262	73.18%
Chronic toxicity	96	26.82%
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
Total uses	358	100.00%

Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	41,781	99.74%
Monoclonal antibody by mouse ascites method		
Other product types	110	0.26%
Total uses	41,891	100.00%

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Use of animals to meet legislative requirements

Testing by Legislation	Number of uses	Percentage
Legislation on medicinal products for human use	115,307	86.75%
Legislation on medicinal products for veterinary use and their residues	15,187	11.43%
Medical devices legislation	1,299	0.98%
Industrial chemicals legislation	195	0.15%
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material	668	0.50%
Feed legislation including legislation for the safety of target animals, workers and environment	159	0.12%
Cosmetics legislation		
Other legislation	110	0.08%
Total uses	132,925	100.00%

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	118,429	89.09%
Legislation satisfying national requirements only [within EU]	19	0.01%
Legislation satisfying Non-EU requirements only	14,477	10.89%
Total uses	132,925	100.00%

First use and re-use

Re-Use	Number of uses	Percentage
No	526,860	98.48%
Yes	8,131	1.52%
Total uses	534,991	100.00%

Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	513,202	95.93%
Yes	21,789	4.07%
Total uses	534,991	100.00%

Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	21,229	3.97%
Mild [up to and including]	297,600	55.63%
Moderate	119,380	22.31%
Severe	96,782	18.09%
Total uses	534,991	100.00%

Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	408,871	76.43%
Genetically altered without a harmful phenotype	108,938	20.36%
Genetically altered with a harmful phenotype	17,182	3.21%
Total uses	534,991	100.00%

Speaking of Research