

EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2014

All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	363,794	55.10%
Rats	63,664	9.64%
Guinea-Pigs	21,310	3.23%
Hamsters (Syrian)	2,745	0.42%
Hamsters (Chinese)		
Mongolian gerbil	184	0.03%
Other Rodents	227	0.03%
Rabbits	43,644	6.61%
Cats	120	0.02%
Dogs	1,578	0.24%
Ferrets	6	0.00%
Other carnivores		
Horses, donkeys & cross-breeds	150	0.02%
Pigs	3,473	0.53%
Goats	45	0.01%
Sheep	522	0.08%
Cattle	492	0.07%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey	8	0.00%
Rhesus monkey	38	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	119	0.02%
Domestic fowl	20,111	3.05%
Other birds	2,850	0.43%
Reptiles	107	0.02%
Rana		
Xenopus	455	0.07%
Other Amphibians	382	0.06%
Zebra fish	78,751	11.93%
Other Fish	55,486	8.40%
Cephalopods		
Total uses	660,261	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	598,034	91.68%
Animals born in the EU but not at a registered breeder	51,410	7.88%
Animals born in rest of Europe	916	0.14%
Animals born in rest of world	1,951	0.30%
Total uses	652,311	100.00%

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	3	27.27%
Animals born in rest of Europe		
Animals born in Asia	8	72.73%
Animals born in America		
Animals born in Africa		
Animals born elsewhere		
Total uses	11	100.00%

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater	11	100.00%
Self-sustaining colony		
Total uses	11	100.00%

EU Statistical Data of all uses of animals

Purpose for which animals are used

Purpose Category level 1	Number of uses	Percentage
Basic Research	343,380	52.01%
Translational and applied research	165,754	25.10%
Regulatory use and Routine production	134,337	20.35%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	219	0.03%
Preservation of species	765	0.12%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	15,178	2.30%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	628	0.10%
Total uses	660,261	100.00%

Basic Research	Number of uses	Percentage
Oncology	36,626	10.67%
Cardiovascular Blood and Lymphatic System	22,948	6.68%
Nervous System	84,071	24.48%
Respiratory System	6,071	1.77%
Gastrointestinal System including Liver	14,592	4.25%
Musculoskeletal System	26,071	7.59%
Immune System	62,934	18.33%
Urogenital/Reproductive System	9,672	2.82%
Sensory Organs (skin, eyes and ears)	4,335	1.26%
Endocrine System/Metabolism	22,117	6.44%
Multisystemic	6,719	1.96%
Ethology / Animal Behaviour /Animal Biology	26,902	7.83%
Other basic research	20,322	5.92%
Total uses	343,380	100.00%

Translational and applied research	Number of uses	Percentage
Human Cancer	9,932	5.99%
Human Infectious Disorders	31,259	18.86%
Human Cardiovascular Disorders	493	0.30%
Human Nervous and Mental Disorders	51,133	30.85%
Human Respiratory Disorders	3,227	1.95%
Human Gastrointestinal Disorders including Liver	892	0.54%
Human Musculoskeletal Disorders	232	0.14%
Human Immune Disorders	39,098	23.59%
Human Urogenital/Reproductive Disorders	3,176	1.92%
Human Sensory Organ Disorders (skin, eyes and ears)	1,980	1.19%
Human Endocrine/Metabolism Disorders	287	0.17%
Other Human Disorders	24	0.01%
Animal Diseases and Disorders	7,750	4.68%
Animal Welfare	357	0.22%
Diagnosis of diseases	5,963	3.60%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	9,951	6.00%
Total uses	165,754	100.00%

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Regulatory use and routine Production	Number of uses	Percentage
Routine production	590	0.44%
Quality control (incl batch safety and potency testing)	115,898	86.27%
Other efficacy and tolerance testing	8,457	6.30%
Toxicity and other safety testing including pharmacology	9,392	6.99%
Total uses	134,337	100.00%

Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	24,048	20.75%
Pyrogenicity testing	804	0.69%
Batch potency testing	86,546	74.67%
Other quality controls	4,500	3.88%
Total uses	115,898	100.00%

Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	1,696	18.06%
Skin irritation/corrosion	69	0.73%
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	1,263	13.45%
Carcinogenicity		
Genotoxicity	174	1.85%
Reproductive toxicity	390	4.15%
Developmental toxicity	639	6.80%
Neurotoxicity	147	1.57%
Kinetics	1,122	11.95%
Pharmaco-dynamics (incl safety pharmacology)	766	8.16%
Phototoxicity		
Ecotoxicity	884	9.41%
Safety testing in food and feed area	1,253	13.34%
Target animal safety	14	0.15%
Other toxicity/safety testing	975	10.38%
Total uses	9,392	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	1,696	100.00%
Total uses	1,696	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	1,229	97.31%
29 - 90 days		
> 90 days	34	2.69%
Total uses	1,263	100.00%

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	884	100.00%
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
Total uses	884	100.00%

Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	379	64.24%
Monoclonal antibodies	191	32.37%
Other product types	20	3.39%
Total uses	590	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	108,144	80.49%
Legislation on medicinal products for veterinary use and their residues	23,271	17.32%
Medical devices legislation	945	0.70%
Industrial chemicals legislation		
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material	1,050	0.78%
Feed legislation including legislation for the safety of target animals, workers and environment	63	0.05%
Cosmetics legislation		
Other legislation	884	0.66%
Total uses	134,357	100.00%

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	112,145	83.47%
Legislation satisfying national requirements only [within EU]	884	0.66%
Legislation satisfying Non-EU requirements only	21,328	15.87%
Total uses	134,357	100.00%

First use and re-use

Re-Use	Number of uses	Percentage
No	652,322	98.80%
Yes	7,939	1.20%
Total uses	660,261	100.00%

Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	648,601	98.23%
Yes	11,660	1.77%
Total uses	660,261	100.00%

Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	25,944	3.93%
Mild [up to and including]	350,074	53.02%
Moderate	186,377	28.23%
Severe	97,866	14.82%
Total uses	660,261	100.00%

Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	558,651	84.61%
Genetically altered without a harmful phenotype	89,325	13.53%
Genetically altered with a harmful phenotype	12,285	1.86%
Total uses	660,261	100.00%

Speaking of Research