

# EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2017

## All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	334,054	61.51%
Rats	23,826	4.39%
Guinea-Pigs	15,541	2.86%
Hamsters (Syrian)	1,147	0.21%
Hamsters (Chinese)		
Mongolian gerbil	174	0.03%
Other Rodents	115	0.02%
Rabbits	57,888	10.66%
Cats	61	0.01%
Dogs	1,856	0.34%
Ferrets	26	0.00%
Other carnivores		
Horses, donkeys & cross-breeds	234	0.04%
Pigs	4,970	0.92%
Goats	78	0.01%
Sheep	666	0.12%
Cattle	1,558	0.29%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey	44	0.01%
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	140	0.03%
Domestic fowl	39,674	7.31%
Other birds	7,138	1.31%
Reptiles	181	0.03%
Rana		
Xenopus	918	0.17%
Other Amphibians	323	0.06%
Zebra fish	28,435	5.24%
Other Fish	24,027	4.42%
Cephalopods		
<b>Total uses</b>	<b>543,074</b>	<b>100.00%</b>

## Origin as registered at the first use

Place of Birth	Number of uses	Percentage
Animals born in the EU at a registered breeder	511,268	95.03%
Animals born in the EU but not at a registered breeder	22,269	4.14%
Animals born in rest of Europe	903	0.17%
Animals born in rest of world	3,594	0.67%
<b>Total uses</b>	<b>538,034</b>	<b>100.00%</b>

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	9	100.00%
Animals born in rest of Europe		
Animals born in Asia		
Animals born in America		
Animals born in Africa		
Animals born elsewhere		
<b>Total uses</b>	<b>9</b>	<b>100.00%</b>

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater	9	100.00%
Self-sustaining colony		
<b>Total uses</b>	<b>9</b>	<b>100.00%</b>

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## Purpose for which animals are used

Purpose Category level 1	Number of uses	Percentage
Basic Research	272,795	50.23%
Translational and applied research	117,258	21.59%
Regulatory use and Routine production	141,853	26.12%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	706	0.13%
Preservation of species	151	0.03%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	8,051	1.48%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	2,260	0.42%
<b>Total uses</b>	<b>543,074</b>	<b>100.00%</b>

Basic Research	Number of uses	Percentage
Oncology	58,087	21.29%
Cardiovascular Blood and Lymphatic System	13,462	4.93%
Nervous System	42,974	15.75%
Respiratory System	3,583	1.31%
Gastrointestinal System including Liver	16,775	6.15%
Musculoskeletal System	4,967	1.82%
Immune System	70,105	25.70%
Urogenital/Reproductive System	5,852	2.15%
Sensory Organs (skin, eyes and ears)	4,785	1.75%
Endocrine System/Metabolism	14,861	5.45%
Multisystemic	5,600	2.05%
Ethology / Animal Behaviour /Animal Biology	14,701	5.39%
Other basic research	17,043	6.25%
<b>Total uses</b>	<b>272,795</b>	<b>100.00%</b>

Translational and applied research	Number of uses	Percentage
Human Cancer	12,720	10.85%
Human Infectious Disorders	15,691	13.38%
Human Cardiovascular Disorders	1,573	1.34%
Human Nervous and Mental Disorders	28,936	24.68%
Human Respiratory Disorders	5,945	5.07%
Human Gastrointestinal Disorders including Liver	977	0.83%
Human Musculoskeletal Disorders	783	0.67%
Human Immune Disorders	2,039	1.74%
Human Urogenital/Reproductive Disorders	503	0.43%
Human Sensory Organ Disorders (skin, eyes and ears)	5,441	4.64%
Human Endocrine/Metabolism Disorders	3,722	3.17%
Other Human Disorders	40	0.03%
Animal Diseases and Disorders	17,960	15.32%
Animal Welfare	3,525	3.01%
Diagnosis of diseases	4,292	3.66%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	13,111	11.18%
<b>Total uses</b>	<b>117,258</b>	<b>100.00%</b>

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Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	68,615	48.37%
Other efficacy and tolerance testing	17,201	12.13%
Toxicity and other safety testing including pharmacology	4,133	2.91%
Routine production	51,904	36.59%
<b>Total uses</b>	<b>141,853</b>	<b>100.00%</b>

Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	8,016	11.68%
Pyrogenicity testing		
Batch potency testing	57,716	84.12%
Other quality controls	2,883	4.20%
<b>Total uses</b>	<b>68,615</b>	<b>100.00%</b>

Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	1,037	25.09%
Skin irritation/corrosion		
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	672	16.26%
Carcinogenicity		
Genotoxicity		
Reproductive toxicity	290	7.02%
Developmental toxicity	11	0.27%
Neurotoxicity	20	0.48%
Kinetics	399	9.65%
Pharmaco-dynamics (incl safety pharmacology)		
Phototoxicity		
Ecotoxicity	1,418	34.31%
Safety testing in food and feed area	150	3.63%
Target animal safety	136	3.29%
Other toxicity/safety testing		
<b>Total uses</b>	<b>4,133</b>	<b>100.00%</b>

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	50	4.82%
Other lethal methods		
Non lethal methods	987	95.18%
<b>Total uses</b>	<b>1,037</b>	<b>100.00%</b>

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Repeated dose toxicity	Number of uses	Percentage
up to 28 days	505	75.15%
29 - 90 days	42	6.25%
> 90 days	125	18.60%
<b>Total uses</b>	<b>672</b>	<b>100.00%</b>

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	1,202	84.77%
Chronic toxicity	216	15.23%
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
<b>Total uses</b>	<b>1,418</b>	<b>100.00%</b>

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Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	51,804	99.81%
Monoclonal antibody by mouse ascites method		
Other product types	100	0.19%
<b>Total uses</b>	<b>51,904</b>	<b>100.00%</b>

## Use of animals to meet legislative requirements

Testing by Legislation	Number of uses	Percentage
Legislation on medicinal products for human use	113,897	80.29%
Legislation on medicinal products for veterinary use and their residues	25,559	18.02%
Medical devices legislation	779	0.55%
Industrial chemicals legislation	216	0.15%
Plant protection product legislation	52	0.04%
Biocides legislation		
Food legislation including food contact material	74	0.05%
Feed legislation including legislation for the safety of target animals, workers and environment		
Cosmetics legislation		
Other legislation	1,276	0.90%
<b>Total uses</b>	<b>141,853</b>	<b>100.00%</b>

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	128,208	90.38%
Legislation satisfying national requirements only [within EU]	50	0.04%
Legislation satisfying Non-EU requirements only	13,595	9.58%
<b>Total uses</b>	<b>141,853</b>	<b>100.00%</b>

## First use and re-use

Re-Use	Number of uses	Percentage
No	538,043	99.07%
Yes	5,031	0.93%
<b>Total uses</b>	<b>543,074</b>	<b>100.00%</b>

## Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	513,454	94.55%
Yes	29,620	5.45%
<b>Total uses</b>	<b>543,074</b>	<b>100.00%</b>

## Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	26,546	4.89%
Mild [up to and including]	297,189	54.72%
Moderate	134,577	24.78%
Severe	84,762	15.61%
<b>Total uses</b>	<b>543,074</b>	<b>100.00%</b>

## Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	402,289	74.08%
Genetically altered without a harmful phenotype	118,326	21.79%
Genetically altered with a harmful phenotype	22,459	4.14%
<b>Total uses</b>	<b>543,074</b>	<b>100.00%</b>