

# EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2018

## All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	348,937	62.73%
Rats	20,003	3.60%
Guinea-Pigs	14,029	2.52%
Hamsters (Syrian)	772	0.14%
Hamsters (Chinese)		
Mongolian gerbil	105	0.02%
Other Rodents	55	0.01%
Rabbits	61,575	11.07%
Cats	34	0.01%
Dogs	1,684	0.30%
Ferrets		
Other carnivores		
Horses, donkeys & cross-breeds	302	0.05%
Pigs	5,429	0.98%
Goats	59	0.01%
Sheep	528	0.09%
Cattle	850	0.15%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey	2	0.00%
Rhesus monkey	41	0.01%
Vervets Chlorocebus spp.		
Baboons		
Squirrel monkey		
Other species of New World Monkeys (Cebidoidea)		
Other species of Old World Monkeys (Cercopithecoidea)		
Other species of non-human primates		
Apes		
Other Mammals	171	0.03%
Domestic fowl	39,203	7.05%
Other birds	6,209	1.12%
Reptiles	324	0.06%
Rana		
Xenopus	839	0.15%
Other Amphibians	277	0.05%
Zebra fish	25,904	4.66%
Other Fish	28,939	5.20%
Cephalopods		
<b>Total uses</b>	<b>556,271</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	521,063	94.46%
Animals born in the EU but not at a registered breeder	25,545	4.63%
Animals born in rest of Europe	309	0.06%
Animals born in rest of world	4,677	0.85%
<b>Total uses</b>	<b>551,594</b>	<b>100.00%</b>

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	5	71.43%
Animals born in rest of Europe		
Animals born in Asia	2	28.57%
Animals born in America		
Animals born in Africa		
Animals born elsewhere		
<b>Total uses</b>	<b>7</b>	<b>100.00%</b>

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater	7	100.00%
Self-sustaining colony		
<b>Total uses</b>	<b>7</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	251,704	45.25%
Translational and applied research	121,645	21.87%
Regulatory use and Routine production	140,896	25.33%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	359	0.06%
Preservation of species	5,598	1.01%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	7,442	1.34%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	28,627	5.15%
<b>Total uses</b>	<b>556,271</b>	<b>100.00%</b>

Basic Research	Number of uses	Percentage
Oncology	56,000	22.25%
Cardiovascular Blood and Lymphatic System	17,701	7.03%
Nervous System	38,643	15.35%
Respiratory System	4,937	1.96%
Gastrointestinal System including Liver	19,826	7.88%
Musculoskeletal System	7,950	3.16%
Immune System	50,786	20.18%
Urogenital/Reproductive System	5,230	2.08%
Sensory Organs (skin, eyes and ears)	3,096	1.23%
Endocrine System/Metabolism	14,773	5.87%
Multisystemic	6,356	2.53%
Ethology / Animal Behaviour /Animal Biology	14,256	5.66%
Other basic research	12,150	4.83%
<b>Total uses</b>	<b>251,704</b>	<b>100.00%</b>

Translational and applied research	Number of uses	Percentage
Human Cancer	18,138	14.91%
Human Infectious Disorders	15,412	12.67%
Human Cardiovascular Disorders	1,332	1.09%
Human Nervous and Mental Disorders	28,971	23.82%
Human Respiratory Disorders	6,783	5.58%
Human Gastrointestinal Disorders including Liver	1,706	1.40%
Human Musculoskeletal Disorders	984	0.81%
Human Immune Disorders	2,435	2.00%
Human Urogenital/Reproductive Disorders	839	0.69%
Human Sensory Organ Disorders (skin, eyes and ears)	5,709	4.69%
Human Endocrine/Metabolism Disorders	1,749	1.44%
Other Human Disorders	22	0.02%
Animal Diseases and Disorders	22,693	18.66%
Animal Welfare	2,323	1.91%
Diagnosis of diseases	5,038	4.14%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	7,511	6.17%
<b>Total uses</b>	<b>121,645</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)	61,229	43.46%
Other efficacy and tolerance testing	18,296	12.99%
Toxicity and other safety testing including pharmacology	4,407	3.13%
Routine production	56,964	40.43%
<b>Total uses</b>	<b>140,896</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	5,225	8.53%
Pyrogenicity testing		
Batch potency testing	53,362	87.15%
Other quality controls	2,642	4.31%
<b>Total uses</b>	<b>61,229</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	821	18.63%
Skin irritation/corrosion		
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	850	19.29%
Carcinogenicity		
Genotoxicity	3	0.07%
Reproductive toxicity		
Developmental toxicity		
Neurotoxicity		
Kinetics	486	11.03%
Pharmaco-dynamics (incl safety pharmacology)		
Phototoxicity		
Ecotoxicity	1,096	24.87%
Safety testing in food and feed area	971	22.03%
Target animal safety	180	4.08%
Other toxicity/safety testing		
<b>Total uses</b>	<b>4,407</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	310	37.76%
Other lethal methods		
Non lethal methods	511	62.24%
<b>Total uses</b>	<b>821</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	730	85.88%
29 - 90 days	120	14.12%
> 90 days		
<b>Total uses</b>	<b>850</b>	<b>100.00%</b>
Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	1,096	100.00%
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
<b>Total uses</b>	<b>1,096</b>	<b>100.00%</b>

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Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	56,918	99.92%
Monoclonal antibody by mouse ascites method	11	0.02%
Other product types	35	0.06%
<b>Total uses</b>	<b>56,964</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	112,808	80.06%
Legislation on medicinal products for veterinary use and their residues	25,097	17.81%
Medical devices legislation	1,047	0.74%
Industrial chemicals legislation		
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material	740	0.53%
Feed legislation including legislation for the safety of target animals, workers and environment	62	0.04%
Cosmetics legislation		
Other legislation	1,142	0.81%
<b>Total uses</b>	<b>140,896</b>	<b>100.00%</b>

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	125,984	89.42%
Legislation satisfying national requirements only [within EU]	310	0.22%
Legislation satisfying Non-EU requirements only	14,602	10.36%
<b>Total uses</b>	<b>140,896</b>	<b>100.00%</b>

## First use and re-use

Re-Use	Number of uses	Percentage
No	551,601	99.16%
Yes	4,670	0.84%
<b>Total uses</b>	<b>556,271</b>	<b>100.00%</b>

## Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	521,106	93.68%
Yes	35,165	6.32%
<b>Total uses</b>	<b>556,271</b>	<b>100.00%</b>

## Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	20,565	3.70%
Mild [up to and including]	311,660	56.03%
Moderate	154,633	27.80%
Severe	69,413	12.48%
<b>Total uses</b>	<b>556,271</b>	<b>100.00%</b>

## Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	393,969	70.82%
Genetically altered without a harmful phenotype	139,715	25.12%
Genetically altered with a harmful phenotype	22,587	4.06%
<b>Total uses</b>	<b>556,271</b>	<b>100.00%</b>