

# EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2015

## All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	335,520	59.29%
Rats	34,184	6.04%
Guinea-Pigs	17,363	3.07%
Hamsters (Syrian)	2,246	0.40%
Hamsters (Chinese)		
Mongolian gerbil	111	0.02%
Other Rodents	200	0.04%
Rabbits	43,304	7.65%
Cats	82	0.01%
Dogs	1,850	0.33%
Ferrets	5	0.00%
Other carnivores		
Horses, donkeys & cross-breeds	115	0.02%
Pigs	3,391	0.60%
Goats	96	0.02%
Sheep	417	0.07%
Cattle	598	0.11%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey	5	0.00%
Rhesus monkey	41	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	131	0.02%
Domestic fowl	18,350	3.24%
Other birds	4,055	0.72%
Reptiles	140	0.02%
Rana		
Xenopus	855	0.15%
Other Amphibians	495	0.09%
Zebra fish	60,711	10.73%
Other Fish	41,619	7.35%
Cephalopods		
<b>Total uses</b>	<b>565,884</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	499,507	91.67%
Animals born in the EU but not at a registered breeder	38,191	7.01%
Animals born in rest of Europe	2,693	0.49%
Animals born in rest of world	4,503	0.83%
<b>Total uses</b>	<b>544,894</b>	<b>100.00%</b>

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	5	50.00%
Animals born in rest of Europe		
Animals born in Asia	5	50.00%
Animals born in America		
Animals born in Africa		
Animals born elsewhere		
<b>Total uses</b>	<b>10</b>	<b>100.00%</b>

NHP Generation	Number of uses	Percentage
F0		
F1		
F2 or greater	10	100.00%
Self-sustaining colony		
<b>Total uses</b>	<b>10</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	311,406	55.03%
Translational and applied research	94,748	16.74%
Regulatory use and Routine production	148,900	26.31%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	377	0.07%
Preservation of species		
Higher education or training for the acquisition, maintenance or improvement of vocational skills	8,426	1.49%
Forensic enquiries	36	0.01%
Maintenance of colonies of established genetically altered animals, not used in other procedures	1,991	0.35%
<b>Total uses</b>	<b>565,884</b>	<b>100.00%</b>

Basic Research	Number of uses	Percentage
Oncology	42,541	13.66%
Cardiovascular Blood and Lymphatic System	19,624	6.30%
Nervous System	49,034	15.75%
Respiratory System	7,410	2.38%
Gastrointestinal System including Liver	15,356	4.93%
Musculoskeletal System	19,679	6.32%
Immune System	59,217	19.02%
Urogenital/Reproductive System	20,248	6.50%
Sensory Organs (skin, eyes and ears)	4,820	1.55%
Endocrine System/Metabolism	31,534	10.13%
Multisystemic	15,254	4.90%
Ethology / Animal Behaviour /Animal Biology	17,526	5.63%
Other basic research	9,163	2.94%
<b>Total uses</b>	<b>311,406</b>	<b>100.00%</b>

Translational and applied research	Number of uses	Percentage
Human Cancer	16,760	17.69%
Human Infectious Disorders	21,894	23.11%
Human Cardiovascular Disorders	1,085	1.15%
Human Nervous and Mental Disorders	17,936	18.93%
Human Respiratory Disorders	4,176	4.41%
Human Gastrointestinal Disorders including Liver	971	1.02%
Human Musculoskeletal Disorders	181	0.19%
Human Immune Disorders	2,558	2.70%
Human Urogenital/Reproductive Disorders	433	0.46%
Human Sensory Organ Disorders (skin, eyes and ears)	2,880	3.04%
Human Endocrine/Metabolism Disorders	1,359	1.43%
Other Human Disorders	62	0.07%
Animal Diseases and Disorders	6,235	6.58%
Animal Welfare	165	0.17%
Diagnosis of diseases	7,256	7.66%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	10,797	11.40%
<b>Total uses</b>	<b>94,748</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)	89,897	60.37%
Other efficacy and tolerance testing	7,066	4.75%
Toxicity and other safety testing including pharmacology	11,801	7.93%
Routine production	40,136	26.96%
<b>Total uses</b>	<b>148,900</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	13,136	14.61%
Pyrogenicity testing		
Batch potency testing	74,356	82.71%
Other quality controls	2,405	2.68%
<b>Total uses</b>	<b>89,897</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	990	8.39%
Skin irritation/corrosion	158	1.34%
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	1,380	11.69%
Carcinogenicity		
Genotoxicity	126	1.07%
Reproductive toxicity	349	2.96%
Developmental toxicity		
Neurotoxicity	183	1.55%
Kinetics	671	5.69%
Pharmaco-dynamics (incl safety pharmacology)	3,644	30.88%
Phototoxicity		
Ecotoxicity	871	7.38%
Safety testing in food and feed area	1,506	12.76%
Target animal safety	8	0.07%
Other toxicity/safety testing	1,915	16.23%
<b>Total uses</b>	<b>11,801</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		
Other lethal methods		
Non lethal methods	990	100.00%
<b>Total uses</b>	<b>990</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	1,380	100.00%
29 - 90 days		
> 90 days		
<b>Total uses</b>	<b>1,380</b>	<b>100.00%</b>

Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity	Number of uses	Percentage
Acute toxicity	871	100.00%
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
<b>Total uses</b>	<b>871</b>	<b>100.00%</b>

Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	39,961	99.56%
Monoclonal antibody by mouse ascites method		
Other product types	175	0.44%
<b>Total uses</b>	<b>40,136</b>	<b>100.00%</b>

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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	122,379	82.19%
Legislation on medicinal products for veterinary use and their residues	18,724	12.57%
Medical devices legislation	552	0.37%
Industrial chemicals legislation		
Plant protection product legislation	136	0.09%
Biocides legislation		
Food legislation including food contact material	1,336	0.90%
Feed legislation including legislation for the safety of target animals, workers and environment	332	0.22%
Cosmetics legislation		
Other legislation	5,441	3.65%
<b>Total uses</b>	<b>148,900</b>	<b>100.00%</b>

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	132,308	88.86%
Legislation satisfying national requirements only [within EU]	871	0.58%
Legislation satisfying Non-EU requirements only	15,721	10.56%
<b>Total uses</b>	<b>148,900</b>	<b>100.00%</b>

## First use and re-use

Re-Use	Number of uses	Percentage
No	544,904	96.29%
Yes	20,980	3.71%
<b>Total uses</b>	<b>565,884</b>	<b>100.00%</b>

## Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	543,612	96.06%
Yes	22,272	3.94%
<b>Total uses</b>	<b>565,884</b>	<b>100.00%</b>

## Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	26,051	4.60%
Mild [up to and including]	320,078	56.56%
Moderate	124,680	22.03%
Severe	95,075	16.80%
<b>Total uses</b>	<b>565,884</b>	<b>100.00%</b>

## Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	427,271	75.51%
Genetically altered without a harmful phenotype	125,566	22.19%
Genetically altered with a harmful phenotype	13,047	2.31%
<b>Total uses</b>	<b>565,884</b>	<b>100.00%</b>

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Speaking Of Research