

**Member State: Belgium**

**Year: 2019**

**All uses of animals by species**

Animal Species	Number of uses	Percentage
Mice	299038	60,54%
Rats	17471	3,54%
Guinea-Pigs	11142	2,26%
Hamsters (Syrian)	886	0,18%
Hamsters (Chinese)		
Mongolian gerbil	108	0,02%
Other rodents	166	0,03%
Rabbits	63094	12,77%
Cats	227	0,05%
Dogs	1302	0,26%
Ferrets		
Other carnivores		
Horses, donkeys and cross-breeds	110	0,02%
Pigs	5285	1,07%
Goats	64	0,01%
Sheep	538	0,11%
Cattle	1420	0,29%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey	37	0,01%
Vervets (Chlorocebus spp.)		
Baboons		
Squirrel monkey		
Other species of Old World Monkeys (Cercopithecoidea)		
Other species of New World Monkeys (Cebidoidea)		
Apes		
Other mammals	177	0,04%
Domestic fowl	35292	7,14%
Other birds	6411	1,30%
Reptiles	301	0,06%
Rana		
Xenopus	841	0,17%
Other amphibians	265	0,05%
Zebra fish	39115	7,92%
Other fish	10692	2,16%
Cephalopods		
<b>Total uses</b>	<b>493982</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	471718	96,31%
Animals born in the EU but not at a registered breeder	14822	3,03%
Animals born in rest of Europe	411	0,08%
Animals born in rest of world	2856	0,58%
<b>Total uses</b>	<b>489807</b>	<b>100,00%</b>

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU	6	85,71%
Animals born in rest of Europe		
Animals born in Asia	1	14,29%
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>

**Purpose for which animals are used**

Purpose Category level 1	Number of uses	Percentage
Basic Research	222946	45,13%
Translational and applied research	130724	26,46%
Regulatory use and Routine production	115267	23,33%
Protection of the natural environment in the interests of the health or welfare of human beings or animals	798	0,16%
Preservation of species	243	0,05%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	6287	1,27%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	17717	3,59%
<b>Total uses</b>	<b>493982</b>	<b>100,00%</b>

Basic Research	Number of uses	Percentage
Oncology	49827	22,35%
Cardiovascular Blood and Lymphatic System	14890	6,68%

Nervous System	26973	12,10%
Respiratory System	6539	2,93%
Gastrointestinal System including Liver	23141	10,38%
Musculoskeletal System	9083	4,07%
Immune System	53357	23,93%
Urogenital/Reproductive System	5554	2,49%
Sensory Organs (skin, eyes and ears)	2329	1,04%
Endocrine System/Metabolism	9634	4,32%
Multisystemic	5527	2,48%
Ethology / Animal Behaviour /Animal Biology	7889	3,54%
Other basic research	8203	3,68%
<b>Total uses</b>	<b>222946</b>	<b>100,00%</b>

Translational and applied research	Number of uses	Percentage
Human Cancer	18993	14,53%
Human Infectious Disorders	16936	12,96%
Human Cardiovascular Disorders	1473	1,13%
Human Nervous and Mental Disorders	30580	23,39%
Human Respiratory Disorders	3384	2,59%
Human Gastrointestinal Disorders including Liver	5397	4,13%
Human Musculoskeletal Disorders	1680	1,29%
Human Immune Disorders	3172	2,43%
Human Urogenital/Reproductive Disorders	1099	0,84%
Human Sensory Organ Disorders (skin, eyes and ears)	4409	3,37%
Human Endocrine/Metabolism Disorders	1756	1,34%
Other Human Disorders	2144	1,64%
Animal Diseases and Disorders	26379	20,18%
Animal Welfare	2986	2,28%
Diagnosis of diseases	5443	4,16%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	4893	3,74%
<b>Total uses</b>	<b>130724</b>	<b>100,00%</b>

Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	42666	37,01%
Other efficacy and tolerance testing	9029	7,83%
Toxicity and other safety testing including pharmacology	4938	4,28%
Routine production	58634	50,87%
<b>Total uses</b>	<b>115267</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	3918	9,18%
Pyrogenicity testing		
Batch potency testing	36928	86,55%
Other quality controls	1820	4,27%
<b>Total uses</b>	<b>42666</b>	<b>100,00%</b>

pharmacology	Number of uses	Percentage
Acute and sub-acute	604	12,23%
Skin irritation/corrosion		
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	1017	20,60%
Carcinogenicity		
Genotoxicity	73	1,48%
Reproductive toxicity		
Developmental toxicity		
Neurotoxicity		
Kinetics	839	16,99%
Pharmaco-dynamics (incl safety pharmacology)	56	1,13%
Phototoxicity		
Ecotoxicity	443	8,97%
Safety testing in food and feed area	753	15,25%

Target animal safety	1153	23,35%
Other toxicity/safety testing		
<b>Total uses</b>	<b>4938</b>	<b>100,00%</b>

<b>Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Acute and sub-acute toxicity testing methods</b>	<b>Number of uses</b>	<b>Percentage</b>
LD50, LC50	290	48,01%
Other lethal methods		
Non lethal methods	314	51,99%
<b>Total uses</b>	<b>604</b>	<b>100,00%</b>
<b>Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Repeated dose toxicity</b>	<b>Number of uses</b>	<b>Percentage</b>
up to 28 days	1010	99,31%
29 - 90 days	7	0,69%
> 90 days		
<b>Total uses</b>	<b>1017</b>	<b>100,00%</b>
<b>Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity</b>	<b>Number of uses</b>	<b>Percentage</b>
Acute toxicity	443	100,00%
Chronic toxicity		
Reproductive ecotoxicity		
Endocrine activity		
Bioaccumulation		
Other ecotoxicity		
<b>Total uses</b>	<b>443</b>	<b>100,00%</b>

<b>Regulatory use and routine production – Routine production</b>	<b>Number of uses</b>	<b>Percentage</b>
Blood based products	58479	99,74%
Monoclonal antibody by mouse ascites method	17	0,03%
Other product types	138	0,24%
<b>Total uses</b>	<b>58634</b>	<b>100,00%</b>

### Use of animals to meet legislative requirements

<b>Testing by Legislation</b>	<b>Number of uses</b>	<b>Percentage</b>
Legislation on medicinal products for human use	97276	84,39%
Legislation on medicinal products for veterinary use and their residues	15280	13,26%
Medical devices legislation	853	0,74%
Industrial chemicals legislation		
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material	222	0,19%
Feed legislation including legislation for the safety of target animals, workers and environment	1104	0,96%
Cosmetics legislation		
Other legislation	532	0,46%
<b>Total uses</b>	<b>115267</b>	<b>100,00%</b>

<b>Legislative Requirement</b>	<b>Number of uses</b>	<b>Percentage</b>
Legislation satisfying EU requirements	102111	88,59%
Legislation satisfying national requirements only [within EU]		
Legislation satisfying Non-EU requirements only	13156	11,41%
<b>Total uses</b>	<b>115267</b>	<b>100,00%</b>

### First use and re-use

<b>Re-Use</b>	<b>Number of uses</b>	<b>Percentage</b>
No	489814	99,16%
Yes	4168	0,84%
<b>Total uses</b>	<b>493982</b>	<b>100,00%</b>

### Use in creation of a new genetic line

<b>Creation of New GL</b>	<b>Number of uses</b>	<b>Percentage</b>
No	462475	93,62%
Yes	31507	6,38%
<b>Total uses</b>	<b>493982</b>	<b>100,00%</b>

**Actual severity of uses**

Severity	Number of uses	Percentage
Non-recovery	14074	2,85%
Mild [up to and including]	284376	57,57%
Moderate	131963	26,71%
Severe	63569	12,87%
<b>Total uses</b>	<b>493982</b>	<b>100,00%</b>

**Use by genetic status**

Genetic Status	Number of uses	Percentage
Not genetically altered	334862	67,79%
Genetically altered without a harmful phenotype	136259	27,58%
Genetically altered with a harmful phenotype	22861	4,63%
<b>Total uses</b>	<b>493982</b>	<b>100,00%</b>

Speaking of Research