

EU Statistical Data of all uses of animals

Member State: Finland

Year: 2016

All uses of animals by species

Animal Species	Number of uses	Percentage
Mice	57,839	54.76%
Rats	15,297	14.48%
Guinea-Pigs	10	0.01%
Hamsters (Syrian)	273	0.26%
Hamsters (Chinese)		
Mongolian gerbil		
Other Rodents	1,364	1.29%
Rabbits	237	0.22%
Cats	259	0.25%
Dogs	3,961	3.75%
Ferrets		
Other carnivores	18	0.02%
Horses, donkeys & cross-breeds	76	0.07%
Pigs	611	0.58%
Goats		
Sheep	1,350	1.28%
Cattle	541	0.51%
Prosimians		
Marmoset and tamarins		
Cynomolgus monkey		
Rhesus monkey		
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	103	0.10%
Domestic fowl	8,411	7.96%
Other birds	501	0.47%
Reptiles		
Rana	2	0.00%
Xenopus		
Other Amphibians		
Zebra fish	7,483	7.09%
Other Fish	7,279	6.89%
Cephalopods		
Total uses	105,615	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	84,133	80.23%
Animals born in the EU but not at a registered breeder	15,053	14.35%
Animals born in rest of Europe	981	0.94%
Animals born in rest of world	4,702	4.48%
Total uses	104,869	100.00%

NHP Source (origin)	Number of uses	Percentage
Animals born at a registered breeder within EU		
Animals born in rest of Europe		
Animals born in Asia		
Animals born in America		
Animals born in Africa		
Animals born elsewhere		
Total uses		

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

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Purpose for which animals are used

Purpose Category level 1	Number of uses	Percentage
Basic Research	55,744	52.78%
Translational and applied research	40,591	38.43%
Regulatory use and Routine production	7,026	6.65%
Protection of the natural environment in the interests of the health or welfare of human beings or animals		
Preservation of species	35	0.03%
Higher education or training for the acquisition, maintenance or improvement of vocational skills	1,753	1.66%
Forensic enquiries		
Maintenance of colonies of established genetically altered animals, not used in other procedures	466	0.44%
Total uses	105,615	100.00%

Basic Research	Number of uses	Percentage
Oncology	4,212	7.56%
Cardiovascular Blood and Lymphatic System	5,187	9.31%
Nervous System	14,320	25.69%
Respiratory System	258	0.46%
Gastrointestinal System including Liver	501	0.90%
Musculoskeletal System	562	1.01%
Immune System	8,795	15.78%
Urogenital/Reproductive System	524	0.94%
Sensory Organs (skin, eyes and ears)	310	0.56%
Endocrine System/Metabolism	2,614	4.69%
Multisystemic	10,539	18.91%
Ethology / Animal Behaviour /Animal Biology	7,376	13.23%
Other basic research	546	0.98%
Total uses	55,744	100.00%

Translational and applied research	Number of uses	Percentage
Human Cancer	3,325	8.19%
Human Infectious Disorders	995	2.45%
Human Cardiovascular Disorders	676	1.67%
Human Nervous and Mental Disorders	20,831	51.32%
Human Respiratory Disorders		
Human Gastrointestinal Disorders including Liver	74	0.18%
Human Musculoskeletal Disorders	1,204	2.97%
Human Immune Disorders		
Human Urogenital/Reproductive Disorders		
Human Sensory Organ Disorders (skin, eyes and ears)	2,169	5.34%
Human Endocrine/Metabolism Disorders	386	0.95%
Other Human Disorders	586	1.44%
Animal Diseases and Disorders	9,869	24.31%
Animal Welfare	199	0.49%
Diagnosis of diseases	89	0.22%
Plant diseases		
Non-regulatory toxicology and ecotoxicology	188	0.46%
Total uses	40,591	100.00%

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Regulatory use and routine Production	Number of uses	Percentage
Quality control (incl batch safety and potency testing)	2,645	37.65%
Other efficacy and tolerance testing	8	0.11%
Toxicity and other safety testing including pharmacology	2,916	41.50%
Routine production	1,457	20.74%
Total uses	7,026	100.00%

Regulatory use and routine production – Quality control (incl batch safety and potency testing)	Number of uses	Percentage
Batch safety testing	2,645	100.00%
Pyrogenicity testing		
Batch potency testing		
Other quality controls		
Total uses	2,645	100.00%

Regulatory use and routine production - Toxicity and other safety testing including pharmacology	Number of uses	Percentage
Acute and sub-acute	49	1.68%
Skin irritation/corrosion		
Skin sensitisation		
Eye irritation/corrosion		
Repeated dose toxicity	196	6.72%
Carcinogenicity		
Genotoxicity		
Reproductive toxicity		
Developmental toxicity		
Neurotoxicity		
Kinetics	850	29.15%
Pharmaco-dynamics (incl safety pharmacology)	1,821	62.45%
Phototoxicity		
Ecotoxicity		
Safety testing in food and feed area		
Target animal safety		
Other toxicity/safety testing		
Total uses	2,916	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	9	18.37%
Other lethal methods		
Non lethal methods	40	81.63%
Total uses	49	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	100	51.02%
29 - 90 days		
> 90 days	96	48.98%
Total uses	196	100.00%

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

Regulatory use and routine production – Routine production	Number of uses	Percentage
Blood based products	317	21.76%
Monoclonal antibodies		
Other product types	1,140	78.24%
Total uses	1,457	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	4,332	61.66%
Legislation on medicinal products for veterinary use and their residues	2,694	38.34%
Medical devices legislation		
Industrial chemicals legislation		
Plant protection product legislation		
Biocides legislation		
Food legislation including food contact material		
Feed legislation including legislation for the safety of target animals, workers and environment		
Cosmetics legislation		
Other legislation		
Total uses	7,026	100.00%

Legislative Requirement	Number of uses	Percentage
Legislation satisfying EU requirements	6,709	95.49%
Legislation satisfying national requirements only [within EU]	317	4.51%
Legislation satisfying Non-EU requirements only		
Total uses	7,026	100.00%

First use and re-use

Re-Use	Number of uses	Percentage
No	104,869	99.29%
Yes	746	0.71%
Total uses	105,615	100.00%

Use in creation of a new genetic line

Creation of New GL	Number of uses	Percentage
No	101,359	95.97%
Yes	4,256	4.03%
Total uses	105,615	100.00%

Actual severity of uses

Severity	Number of uses	Percentage
Non-recovery	9,199	8.71%
Mild [up to and including]	55,601	52.64%
Moderate	31,797	30.11%
Severe	9,018	8.54%
Total uses	105,615	100.00%

Use by genetic status

Genetic Status	Number of uses	Percentage
Not genetically altered	74,960	70.97%
Genetically altered without a harmful phenotype	22,120	20.94%
Genetically altered with a harmful phenotype	8,535	8.08%
Total uses	105,615	100.00%