

EU Statistical Data of all uses of animals

Member State: Belgium

Year: 2016

All uses of animals by species

| Animal Species | Number of uses | Percentage |
|---|----------------|------------|
| Mice | 336,052 | 62.83% |
| Rats | 30,337 | 5.67% |
| Guinea-Pigs | 16,223 | 3.03% |
| Hamsters (Syrian) | 1,880 | 0.35% |
| Hamsters (Chinese) | | |
| Mongolian gerbil | 118 | 0.02% |
| Other Rodents | 175 | 0.03% |
| Rabbits | 48,036 | 8.98% |
| Cats | 123 | 0.02% |
| Dogs | 1,529 | 0.29% |
| Ferrets | 13 | 0.00% |
| Other carnivores | | |
| Horses, donkeys & cross-breeds | 231 | 0.04% |
| Pigs | 3,630 | 0.68% |
| Goats | 101 | 0.02% |
| Sheep | 581 | 0.11% |
| Cattle | 1,279 | 0.24% |
| Prosimians | | |
| Marmoset and tamarins | | |
| Cynomolgus monkey | | |
| Rhesus monkey | 40 | 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 | 153 | 0.03% |
| Domestic fowl | 26,230 | 4.90% |
| Other birds | 4,504 | 0.84% |
| Reptiles | 172 | 0.03% |
| Rana | | |
| Xenopus | 769 | 0.14% |
| Other Amphibians | 457 | 0.09% |
| Zebra fish | 37,256 | 6.97% |
| Other Fish | 24,965 | 4.67% |
| Cephalopods | | |
| Total uses | 534,854 | 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 | 494,820 | 93.94% |
| Animals born in the EU but not at a registered breeder | 26,817 | 5.09% |
| Animals born in rest of Europe | 48 | 0.01% |
| Animals born in rest of world | 5,034 | 0.96% |
| Total uses | 526,719 | 100.00% |

| NHP Source (origin) | Number of uses | Percentage |
|--|----------------|------------|
| Animals born at a registered breeder within EU | 4 | 100.00% |
| Animals born in rest of Europe | | |
| Animals born in Asia | | |
| Animals born in America | | |
| Animals born in Africa | | |
| Animals born elsewhere | | |
| Total uses | 4 | 100.00% |

| NHP Generation | Number of uses | Percentage |
|------------------------|----------------|------------|
| F0 | | |
| F1 | | |
| F2 or greater | 4 | 100.00% |
| Self-sustaining colony | | |
| Total uses | 4 | 100.00% |

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Purpose for which animals are used

| Purpose Category level 1 | Number of uses | Percentage |
|--|----------------|----------------|
| Basic Research | 283,739 | 53.05% |
| Translational and applied research | 105,760 | 19.77% |
| Regulatory use and Routine production | 132,925 | 24.85% |
| Protection of the natural environment in the interests of the health or welfare of human beings or animals | 1,006 | 0.19% |
| Preservation of species | 6 | 0.00% |
| Higher education or training for the acquisition, maintenance or improvement of vocational skills | 8,819 | 1.65% |
| Forensic enquiries | | |
| Maintenance of colonies of established genetically altered animals, not used in other procedures | 2,599 | 0.49% |
| Total uses | 534,854 | 100.00% |

| Basic Research | Number of uses | Percentage |
|---|----------------|----------------|
| Oncology | 54,616 | 19.25% |
| Cardiovascular Blood and Lymphatic System | 14,443 | 5.09% |
| Nervous System | 56,699 | 19.98% |
| Respiratory System | 6,121 | 2.16% |
| Gastrointestinal System including Liver | 19,837 | 6.99% |
| Musculoskeletal System | 5,877 | 2.07% |
| Immune System | 50,140 | 17.67% |
| Urogenital/Reproductive System | 11,536 | 4.07% |
| Sensory Organs (skin, eyes and ears) | 3,772 | 1.33% |
| Endocrine System/Metabolism | 18,300 | 6.45% |
| Multisystemic | 10,342 | 3.64% |
| Ethology / Animal Behaviour /Animal Biology | 19,464 | 6.86% |
| Other basic research | 12,592 | 4.44% |
| Total uses | 283,739 | 100.00% |

| Translational and applied research | Number of uses | Percentage |
|---|----------------|----------------|
| Human Cancer | 18,857 | 17.83% |
| Human Infectious Disorders | 18,443 | 17.44% |
| Human Cardiovascular Disorders | 920 | 0.87% |
| Human Nervous and Mental Disorders | 22,383 | 21.16% |
| Human Respiratory Disorders | 3,243 | 3.07% |
| Human Gastrointestinal Disorders including Liver | 1,328 | 1.26% |
| Human Musculoskeletal Disorders | 1,047 | 0.99% |
| Human Immune Disorders | 2,329 | 2.20% |
| Human Urogenital/Reproductive Disorders | 284 | 0.27% |
| Human Sensory Organ Disorders (skin, eyes and ears) | 3,290 | 3.11% |
| Human Endocrine/Metabolism Disorders | 2,634 | 2.49% |
| Other Human Disorders | 232 | 0.22% |
| Animal Diseases and Disorders | 12,467 | 11.79% |
| Animal Welfare | 1,514 | 1.43% |
| Diagnosis of diseases | 6,481 | 6.13% |
| Plant diseases | | |
| Non-regulatory toxicology and ecotoxicology | 10,308 | 9.75% |
| Total uses | 105,760 | 100.00% |

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| Regulatory use and routine Production | Number of uses | Percentage |
|--|----------------|----------------|
| Quality control (incl batch safety and potency testing) | 82,222 | 61.86% |
| Other efficacy and tolerance testing | 3,345 | 2.52% |
| Toxicity and other safety testing including pharmacology | 5,467 | 4.11% |
| Routine production | 41,891 | 31.51% |
| Total uses | 132,925 | 100.00% |

| Regulatory use and routine production – Quality control (incl batch safety and potency testing) | Number of uses | Percentage |
|---|----------------|----------------|
| Batch safety testing | 12,844 | 15.62% |
| Pyrogenicity testing | | |
| Batch potency testing | 66,345 | 80.69% |
| Other quality controls | 3,033 | 3.69% |
| Total uses | 82,222 | 100.00% |

| Regulatory use and routine production - Toxicity and other safety testing including pharmacology | Number of uses | Percentage |
|--|----------------|----------------|
| Acute and sub-acute | 392 | 7.17% |
| Skin irritation/corrosion | | |
| Skin sensitisation | | |
| Eye irritation/corrosion | | |
| Repeated dose toxicity | 964 | 17.63% |
| Carcinogenicity | | |
| Genotoxicity | 83 | 1.52% |
| Reproductive toxicity | | |
| Developmental toxicity | 1,697 | 31.04% |
| Neurotoxicity | 30 | 0.55% |
| Kinetics | 465 | 8.51% |
| Pharmaco-dynamics (incl safety pharmacology) | | |
| Phototoxicity | | |
| Ecotoxicity | 358 | 6.55% |
| Safety testing in food and feed area | 1,451 | 26.54% |
| Target animal safety | 8 | 0.15% |
| Other toxicity/safety testing | 19 | 0.35% |
| Total uses | 5,467 | 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 | | |
| Other lethal methods | | |
| Non lethal methods | 392 | 100.00% |
| Total uses | 392 | 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 | 864 | 89.63% |
| 29 - 90 days | 92 | 9.54% |
| > 90 days | 8 | 0.83% |
| Total uses | 964 | 100.00% |

| Regulatory use and routine production – Toxicity and other safety testing including pharmacology – Ecotoxicity | Number of uses | Percentage |
|--|----------------|----------------|
| Acute toxicity | 262 | 73.18% |
| Chronic toxicity | 96 | 26.82% |
| Reproductive ecotoxicity | | |
| Endocrine activity | | |
| Bioaccumulation | | |
| Other ecotoxicity | | |
| Total uses | 358 | 100.00% |

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| Regulatory use and routine production – Routine production | Number of uses | Percentage |
|--|----------------|----------------|
| Blood based products | 41,781 | 99.74% |
| Monoclonal antibody by mouse ascites method | | |
| Other product types | 110 | 0.26% |
| Total uses | 41,891 | 100.00% |

Use of animals to meet legislative requirements

| Testing by Legislation | Number of uses | Percentage |
|--|----------------|----------------|
| Legislation on medicinal products for human use | 115,307 | 86.75% |
| Legislation on medicinal products for veterinary use and their residues | 15,187 | 11.43% |
| Medical devices legislation | 1,299 | 0.98% |
| Industrial chemicals legislation | 195 | 0.15% |
| Plant protection product legislation | | |
| Biocides legislation | | |
| Food legislation including food contact material | 668 | 0.50% |
| Feed legislation including legislation for the safety of target animals, workers and environment | 159 | 0.12% |
| Cosmetics legislation | | |
| Other legislation | 110 | 0.08% |
| Total uses | 132,925 | 100.00% |

| Legislative Requirement | Number of uses | Percentage |
|---|----------------|----------------|
| Legislation satisfying EU requirements | 118,429 | 89.09% |
| Legislation satisfying national requirements only [within EU] | 19 | 0.01% |
| Legislation satisfying Non-EU requirements only | 14,477 | 10.89% |
| Total uses | 132,925 | 100.00% |

First use and re-use

| Re-Use | Number of uses | Percentage |
|-------------------|----------------|----------------|
| No | 526,723 | 98.48% |
| Yes | 8,131 | 1.52% |
| Total uses | 534,854 | 100.00% |

Use in creation of a new genetic line

| Creation of New GL | Number of uses | Percentage |
|--------------------|----------------|----------------|
| No | 513,065 | 95.93% |
| Yes | 21,789 | 4.07% |
| Total uses | 534,854 | 100.00% |

Actual severity of uses

| Severity | Number of uses | Percentage |
|----------------------------|----------------|----------------|
| Non-recovery | 21,229 | 3.97% |
| Mild [up to and including] | 297,600 | 55.64% |
| Moderate | 119,243 | 22.29% |
| Severe | 96,782 | 18.10% |
| Total uses | 534,854 | 100.00% |

Use by genetic status

| Genetic Status | Number of uses | Percentage |
|---|----------------|----------------|
| Not genetically altered | 408,773 | 76.43% |
| Genetically altered without a harmful phenotype | 108,899 | 20.36% |
| Genetically altered with a harmful phenotype | 17,182 | 3.21% |
| Total uses | 534,854 | 100.00% |