

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 | 331,692 | 59.07% |
| Rats | 33,686 | 6.00% |
| Guinea-Pigs | 17,363 | 3.09% |
| Hamsters (Syrian) | 2,246 | 0.40% |
| Hamsters (Chinese) | | |
| Mongolian gerbil | 111 | 0.02% |
| Other Rodents | 200 | 0.04% |
| Rabbits | 43,304 | 7.71% |
| 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 | 3.27% |
| Other birds | 4,055 | 0.72% |
| Reptiles | 133 | 0.02% |
| Rana | | |
| Xenopus | 855 | 0.15% |
| Other Amphibians | 495 | 0.09% |
| Zebra fish | 60,711 | 10.81% |
| Other Fish | 41,619 | 7.41% |
| Cephalopods | | |
| Total uses | 561,551 | 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 | 496,746 | 91.89% |
| Animals born in the EU but not at a registered breeder | 36,621 | 6.77% |
| Animals born in rest of Europe | 2,693 | 0.50% |
| Animals born in rest of world | 4,501 | 0.83% |
| Total uses | 540,561 | 100.00% |

| 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 | | |
| Total uses | 10 | 100.00% |

| NHP Generation | Number of uses | Percentage |
|------------------------|----------------|------------|
| F0 | | |
| F1 | | |
| F2 or greater | 10 | 100.00% |
| Self-sustaining colony | | |
| Total uses | 10 | 100.00% |

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Purpose for which animals are used

| Purpose Category level 1 | Number of uses | Percentage |
|--|----------------|----------------|
| Basic Research | 309,245 | 55.07% |
| Translational and applied research | 94,736 | 16.87% |
| Regulatory use and Routine production | 146,804 | 26.14% |
| 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 | 1.50% |
| Forensic enquiries | 36 | 0.01% |
| Maintenance of colonies of established genetically altered animals, not used in other procedures | 1,927 | 0.34% |
| Total uses | 561,551 | 100.00% |

| Basic Research | Number of uses | Percentage |
|---|----------------|----------------|
| Oncology | 42,541 | 13.76% |
| Cardiovascular Blood and Lymphatic System | 19,624 | 6.35% |
| Nervous System | 48,985 | 15.84% |
| Respiratory System | 7,410 | 2.40% |
| Gastrointestinal System including Liver | 15,356 | 4.97% |
| Musculoskeletal System | 18,962 | 6.13% |
| Immune System | 59,121 | 19.12% |
| Urogenital/Reproductive System | 20,248 | 6.55% |
| Sensory Organs (skin, eyes and ears) | 4,820 | 1.56% |
| Endocrine System/Metabolism | 30,242 | 9.78% |
| Multisystemic | 15,254 | 4.93% |
| Ethology / Animal Behaviour /Animal Biology | 17,519 | 5.67% |
| Other basic research | 9,163 | 2.96% |
| Total uses | 309,245 | 100.00% |

| 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 | 10,785 | 11.38% |
| Total uses | 94,736 | 100.00% |

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| Regulatory use and routine Production | Number of uses | Percentage |
|--|----------------|----------------|
| Quality control (incl batch safety and potency testing) | 89,897 | 61.24% |
| Other efficacy and tolerance testing | 7,066 | 4.81% |
| Toxicity and other safety testing including pharmacology | 9,705 | 6.61% |
| Routine production | 40,136 | 27.34% |
| Total uses | 146,804 | 100.00% |

| 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% |
| Total uses | 89,897 | 100.00% |

| Regulatory use and routine production - Toxicity and other safety testing including pharmacology | Number of uses | Percentage |
|--|----------------|----------------|
| Acute and sub-acute | 990 | 10.20% |
| Skin irritation/corrosion | 158 | 1.63% |
| Skin sensitisation | | |
| Eye irritation/corrosion | | |
| Repeated dose toxicity | 1,380 | 14.22% |
| Carcinogenicity | | |
| Genotoxicity | 126 | 1.30% |
| Reproductive toxicity | 349 | 3.60% |
| Developmental toxicity | | |
| Neurotoxicity | 183 | 1.89% |
| Kinetics | 671 | 6.91% |
| Pharmaco-dynamics (incl safety pharmacology) | 1,548 | 15.95% |
| Phototoxicity | | |
| Ecotoxicity | 871 | 8.97% |
| Safety testing in food and feed area | 1,506 | 15.52% |
| Target animal safety | 8 | 0.08% |
| Other toxicity/safety testing | 1,915 | 19.73% |
| Total uses | 9,705 | 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 | 990 | 100.00% |
| Total uses | 990 | 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 | 1,380 | 100.00% |
| 29 - 90 days | | |
| > 90 days | | |
| Total uses | 1,380 | 100.00% |

| 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 | | |
| Total uses | 871 | 100.00% |

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| 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% |
| Total uses | 40,136 | 100.00% |

Use of animals to meet legislative requirements

| Testing by Legislation | Number of uses | Percentage |
|--|----------------|----------------|
| Legislation on medicinal products for human use | 120,283 | 81.93% |
| Legislation on medicinal products for veterinary use and their residues | 18,724 | 12.75% |
| Medical devices legislation | 552 | 0.38% |
| Industrial chemicals legislation | | |
| Plant protection product legislation | 136 | 0.09% |
| Biocides legislation | | |
| Food legislation including food contact material | 1,336 | 0.91% |
| Feed legislation including legislation for the safety of target animals, workers and environment | 332 | 0.23% |
| Cosmetics legislation | | |
| Other legislation | 5,441 | 3.71% |
| Total uses | 146,804 | 100.00% |

| Legislative Requirement | Number of uses | Percentage |
|---|----------------|----------------|
| Legislation satisfying EU requirements | 130,212 | 88.70% |
| Legislation satisfying national requirements only [within EU] | 871 | 0.59% |
| Legislation satisfying Non-EU requirements only | 15,721 | 10.71% |
| Total uses | 146,804 | 100.00% |

First use and re-use

| Re-Use | Number of uses | Percentage |
|-------------------|----------------|----------------|
| No | 540,571 | 96.26% |
| Yes | 20,980 | 3.74% |
| Total uses | 561,551 | 100.00% |

Use in creation of a new genetic line

| Creation of New GL | Number of uses | Percentage |
|--------------------|----------------|----------------|
| No | 539,762 | 96.12% |
| Yes | 21,789 | 3.88% |
| Total uses | 561,551 | 100.00% |

Actual severity of uses

| Severity | Number of uses | Percentage |
|----------------------------|----------------|----------------|
| Non-recovery | 25,221 | 4.49% |
| Mild [up to and including] | 318,327 | 56.69% |
| Moderate | 124,343 | 22.14% |
| Severe | 93,660 | 16.68% |
| Total uses | 561,551 | 100.00% |

Use by genetic status

| Genetic Status | Number of uses | Percentage |
|---|----------------|----------------|
| Not genetically altered | 424,438 | 75.58% |
| Genetically altered without a harmful phenotype | 124,304 | 22.14% |
| Genetically altered with a harmful phenotype | 12,809 | 2.28% |
| Total uses | 561,551 | 100.00% |