

SECTION 2: ALL USES OF ANIMALS FOR RESEARCH, TESTING, ROUTINE PRODUCTION AND EDUCATION AND TRAINING PURPOSES

Excludes the uses of animals for the creation and maintenance of genetically altered animals.

FILTERS

Reporting year: 2022

Country: All

EC ID: All

File name: All

EU Submission: Yes

ID 1: All

ID 2: All

ID 3: All

Species: All

Other species: All

Species grouping level 1: All

Species grouping level 2: All

Mammals: All

Non-human primates: All

Reuse: All

Place of birth: All

NHP Place of birth: All

NHP Colony type: Self-sustaining colony: All

NHP generation: All

Genetic status: All

Purpose: All

Purpose category level 1: All

Purpose category level 2: All

Purpose category level 3: All

Purpose category level 4: All

Type of legislation: All

Other legislation: All

Origin of legislation: All

Severity: All

Custom severity: All

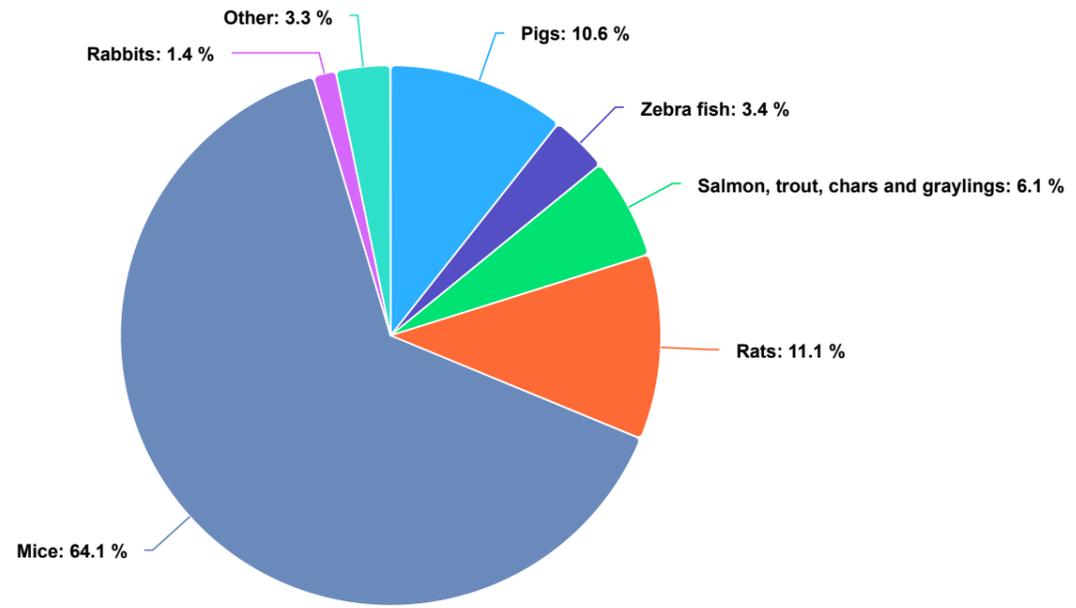
Method of tissue sampling: All

Severity of genotyping: All

ALL USES OF ANIMALS

Uses of animals by species

Species	↑↓	Number of uses	↑↓
Mice		142779	
Rats		24696	
Guinea-Pigs		1434	
Hamsters (Syrian)		163	
Rabbits		3029	
Dogs		237	
Other carnivores		1	
Horses, donkeys and cross-breeds		41	
Pigs		23698	
Goats		21	
Sheep		48	
Cattle		1476	
Prosimians		6	
Baboons		5	
Other mammals		117	
Domestic fowl		355	
Other birds		411	
Reptiles		86	
Xenopus		480	
Other amphibians		149	
Zebra fish		7678	
Sea bass		660	
Salmon, trout, chars and graylings		13483	
Other fish		1567	
Total		222620	



Species categories level 1

Species category level 1	↑↓	Percentage ↑↓	Number of animals ↑↓
Warm-blooded vertebrates		89.17%	198517
Cold-blooded vertebrates		10.83%	24103
Total		100,00%	222620

Species categories level 2

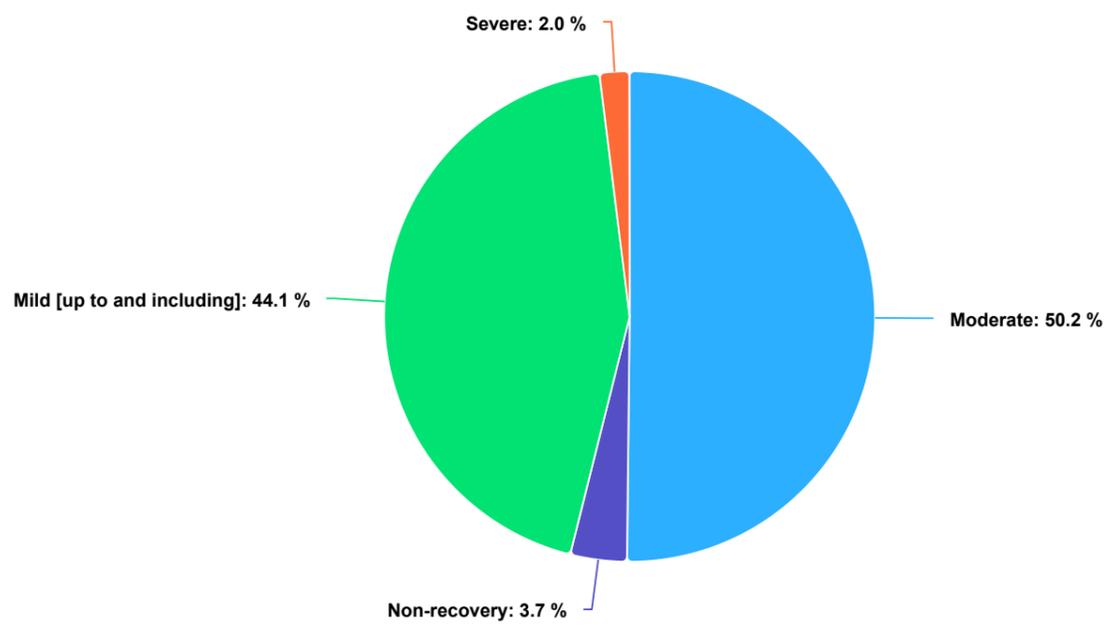
Species category level 2	↑↓	Percentage ↑↓	Number of animals ↑↓
Mammals		88.83%	197751
Birds		0.34%	766
Reptiles		0.04%	86
Amphibians		0.28%	629
Fish		10.51%	23388
Total		100,00%	222620

Mammals

Mammals	↑↓	Percentage ↑↓	Number of animals ↑↓
Rodents		85.50%	169072
Rabbits		1.53%	3029
Carnivores		0.12%	238
Equidae		0.02%	41
Artiodactyla		12.77%	25243
Non-human primates		0.01%	11
Other mammals		0.06%	117
Total		100,00%	197751

Non-human primates

Non-human primates	↑↓	Percentage ↑↓	Number of animals ↑↓
Prosimians		54.55%	6
Old World Monkeys		45.45%	5
Total		100,00%	11



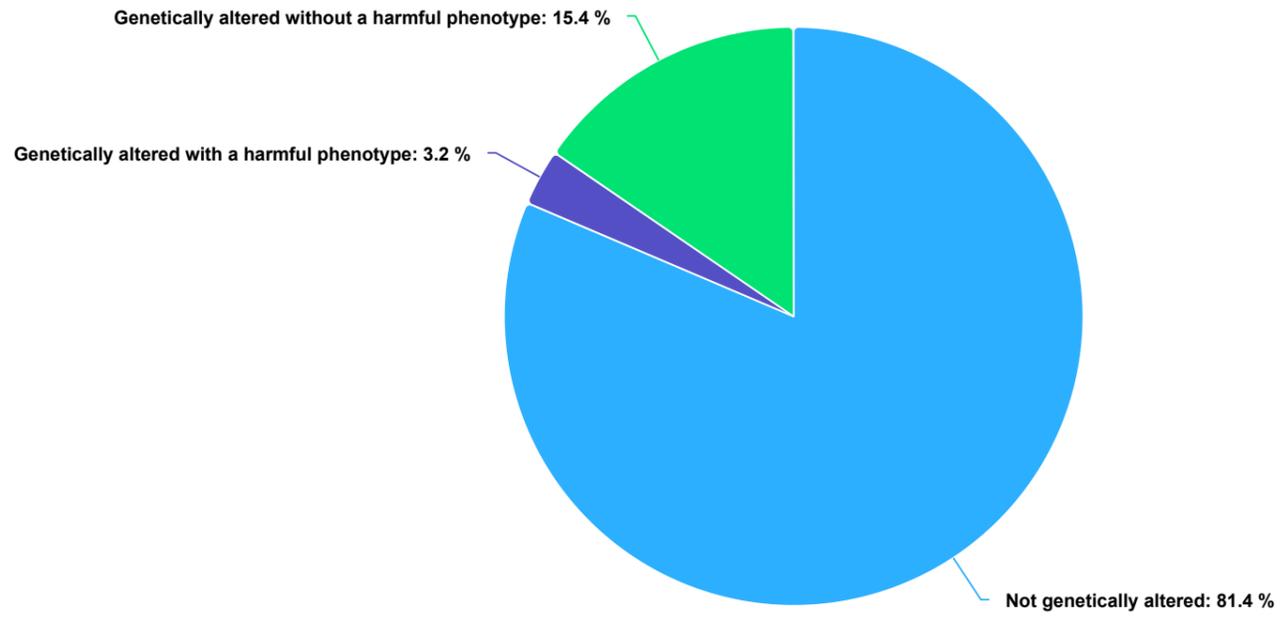
Uses of animals by species and severity

Species	↑↓	Non-recovery ↑↓	Mild [up to and including] ↑↓	Moderate ↑↓	Severe ↑↓	Total ↑↓
Mice		4552	50428	84182	3617	142779
Rats		2490	10994	11046	166	24696
Guinea-Pigs		125	1005	304	0	1434
Hamsters (Syrian)		0	100	63	0	163
Rabbits		4	2828	191	6	3029
Dogs		0	104	133	0	237
Other carnivores		0	1	0	0	1
Horses, donkeys and cross-breeds		0	22	19	0	41
Pigs		1128	15671	6664	235	23698
Goats		0	21	0	0	21
Sheep		0	10	38	0	48
Cattle		0	1241	235	0	1476
Prosimians		6	0	0	0	6
Baboons		5	0	0	0	5
Other mammals		0	63	54	0	117
Domestic fowl		0	351	0	4	355
Other birds		0	378	33	0	411
Reptiles		0	31	55	0	86
Xenopus		0	480	0	0	480
Other amphibians		0	27	122	0	149
Zebra fish		0	6676	981	21	7678
Sea bass		0	660	0	0	660
Salmon, trout, chars and graylings		0	5935	7281	267	13483
Other fish		0	1224	301	42	1567
Total		8310	98250	111702	4358	222620

Proportions of uses of animals by species and severity

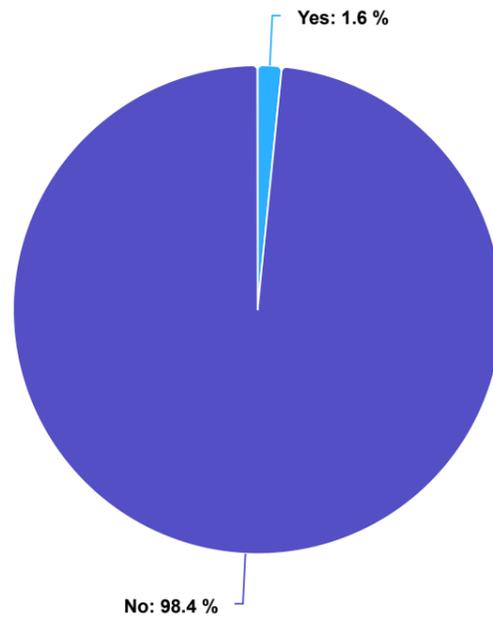
Species	↑↓	Non-recovery ↑↓	Mild [up to and including] ↑↓	Moderate ↑↓	Severe ↑↓	Total ↑↓
Mice		3.19%	35.32%	58.96%	2.53%	100%
Rats		10.08%	44.52%	44.73%	0.67%	100%
Guinea-Pigs		8.72%	70.08%	21.20%	0.00%	100%
Hamsters (Syrian)		0.00%	61.35%	38.65%	0.00%	100%
Rabbits		0.13%	93.36%	6.31%	0.20%	100%
Dogs		0.00%	43.88%	56.12%	0.00%	100%
Other carnivores		0.00%	100.00%	0.00%	0.00%	100%
Horses, donkeys and cross-breeds		0.00%	53.66%	46.34%	0.00%	100%
Pigs		4.76%	66.13%	28.12%	0.99%	100%
Goats		0.00%	100.00%	0.00%	0.00%	100%
Sheep		0.00%	20.83%	79.17%	0.00%	100%

Species	↑↓	Non-recovery ↑↓	Mild [up to and including] ↑↓	Moderate ↑↓	Severe ↑↓	Total ↑↓
Cattle		0.00%	84.08%	15.92%	0.00%	100%
Prosimians		100.00%	0.00%	0.00%	0.00%	100%
Baboons		100.00%	0.00%	0.00%	0.00%	100%
Other mammals		0.00%	53.85%	46.15%	0.00%	100%
Domestic fowl		0.00%	98.87%	0.00%	1.13%	100%
Other birds		0.00%	91.97%	8.03%	0.00%	100%
Reptiles		0.00%	36.05%	63.95%	0.00%	100%
Xenopus		0.00%	100.00%	0.00%	0.00%	100%
Other amphibians		0.00%	18.12%	81.88%	0.00%	100%
Zebra fish		0.00%	86.95%	12.78%	0.27%	100%
Sea bass		0.00%	100.00%	0.00%	0.00%	100%
Salmon, trout, chars and graylings		0.00%	44.02%	54.00%	1.98%	100%
Other fish		0.00%	78.11%	19.21%	2.68%	100%



Uses of animals by species and genetic status

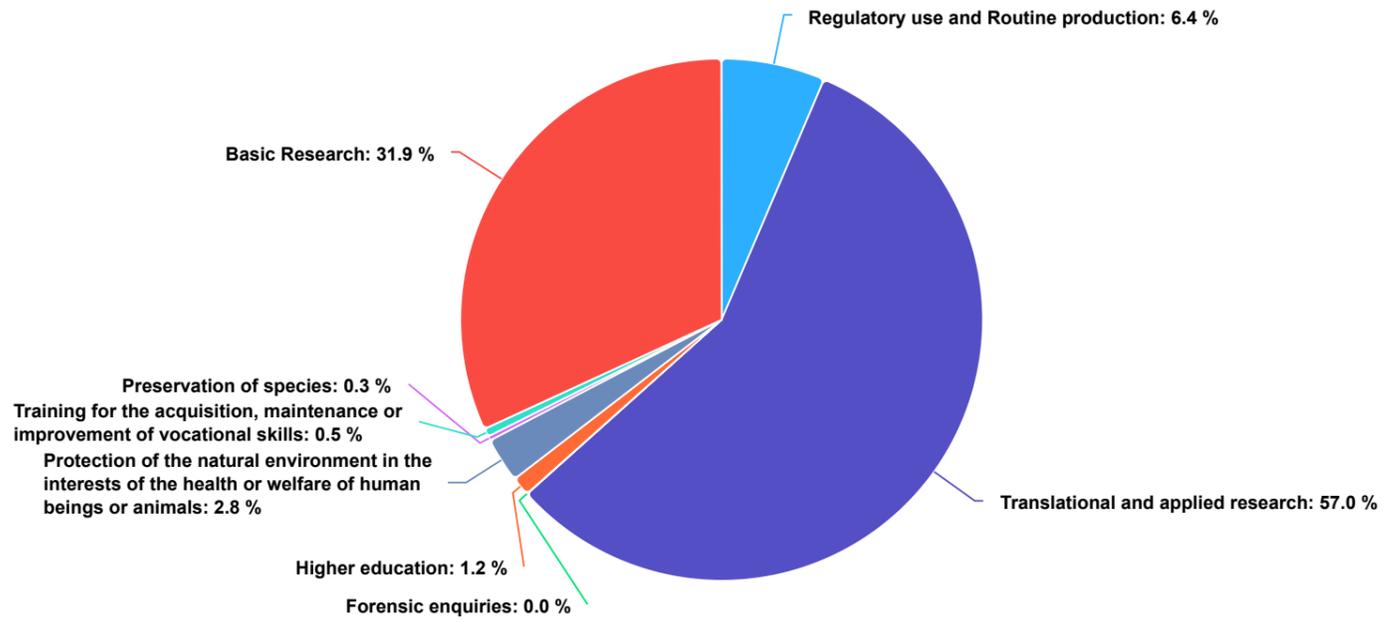
Species ↑↓	Not genetically altered ↑↓	Genetically altered without a harmful phenotype ↑↓	Genetically altered with a harmful phenotype ↑↓	Total ↑↓
Mice	103831	31911	7037	142779
Rats	24142	554	0	24696
Guinea-Pigs	1434	0	0	1434
Hamsters (Syrian)	163	0	0	163
Rabbits	3029	0	0	3029
Dogs	237	0	0	237
Other carnivores	1	0	0	1
Horses, donkeys and cross-breeds	41	0	0	41
Pigs	23698	0	0	23698
Goats	21	0	0	21
Sheep	48	0	0	48
Cattle	1476	0	0	1476
Prosimians	6	0	0	6
Baboons	5	0	0	5
Other mammals	117	0	0	117
Domestic fowl	355	0	0	355
Other birds	411	0	0	411
Reptiles	86	0	0	86
Xenopus	480	0	0	480
Other amphibians	149	0	0	149
Zebra fish	5814	1864	0	7678
Sea bass	660	0	0	660
Salmon, trout, chars and graylings	13483	0	0	13483
Other fish	1567	0	0	1567
Total	181254	34329	7037	222620



USES OF ANIMALS BY MAIN CATEGORIES OF SCIENTIFIC PURPOSES

Uses of animals by main categories of scientific purposes

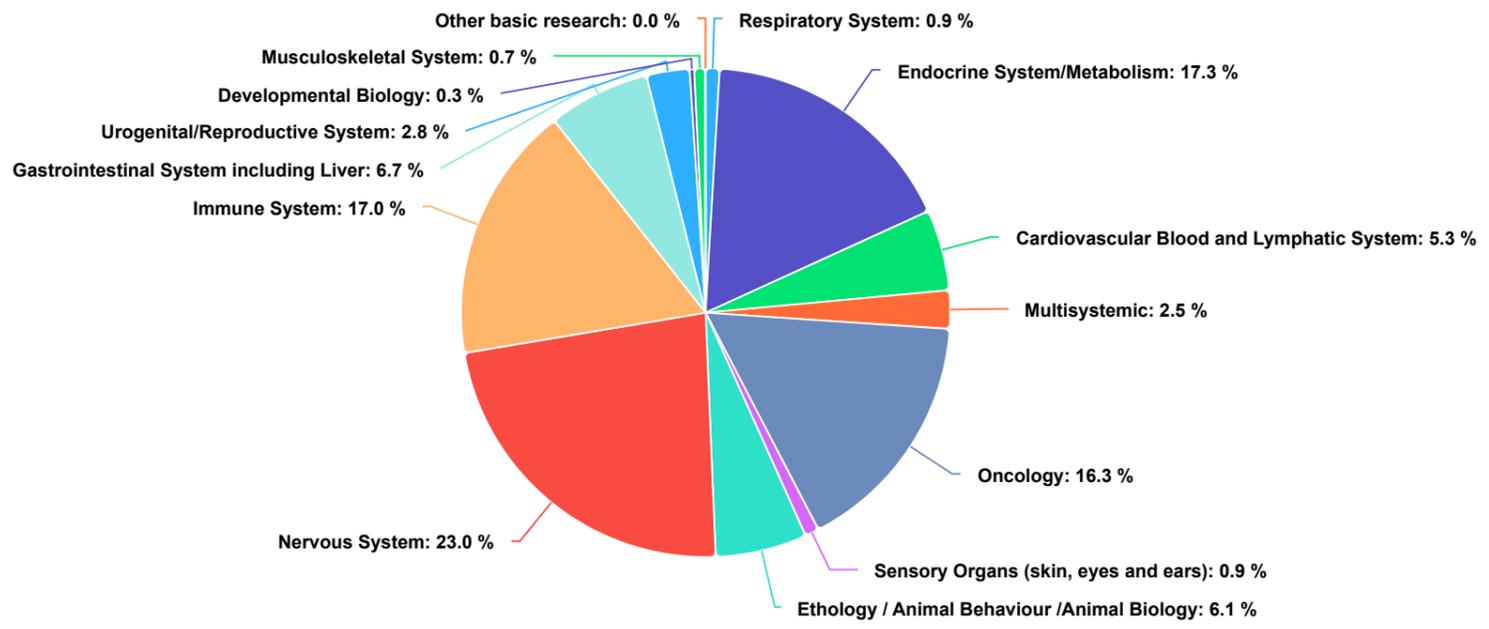
Purpose	↑↓	Number of uses	↑↓
Basic Research		70955	
Translational and applied research		126824	
Regulatory use and Routine production		14264	
Protection of the natural environment in the interests of the health or welfare of human beings or animals		6179	
Preservation of species		605	
Higher education		2650	
Training for the acquisition, maintenance or improvement of vocational skills		1128	
Forensic enquiries		15	
Total		222620	

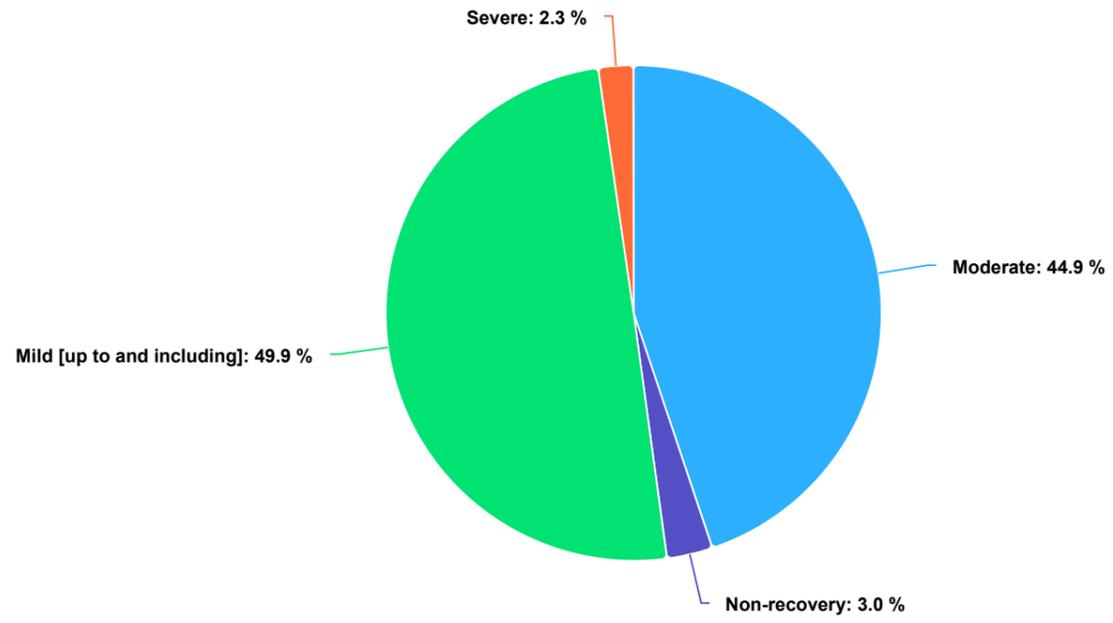


BASIC RESEARCH RELATED USES

Basic research related uses

Purpose	↑↓	Number of uses	↑↓
Oncology		11583	
Cardiovascular Blood and Lymphatic System		3792	
Nervous System		16324	
Respiratory System		657	
Gastrointestinal System including Liver		4766	
Musculoskeletal System		516	
Immune System		12083	
Urogenital/Reproductive System		2019	
Sensory Organs (skin, eyes and ears)		649	
Endocrine System/Metabolism		12249	
Developmental Biology		216	
Multisystemic		1792	
Ethology / Animal Behaviour /Animal Biology		4297	
Other basic research		12	
Total		70955	

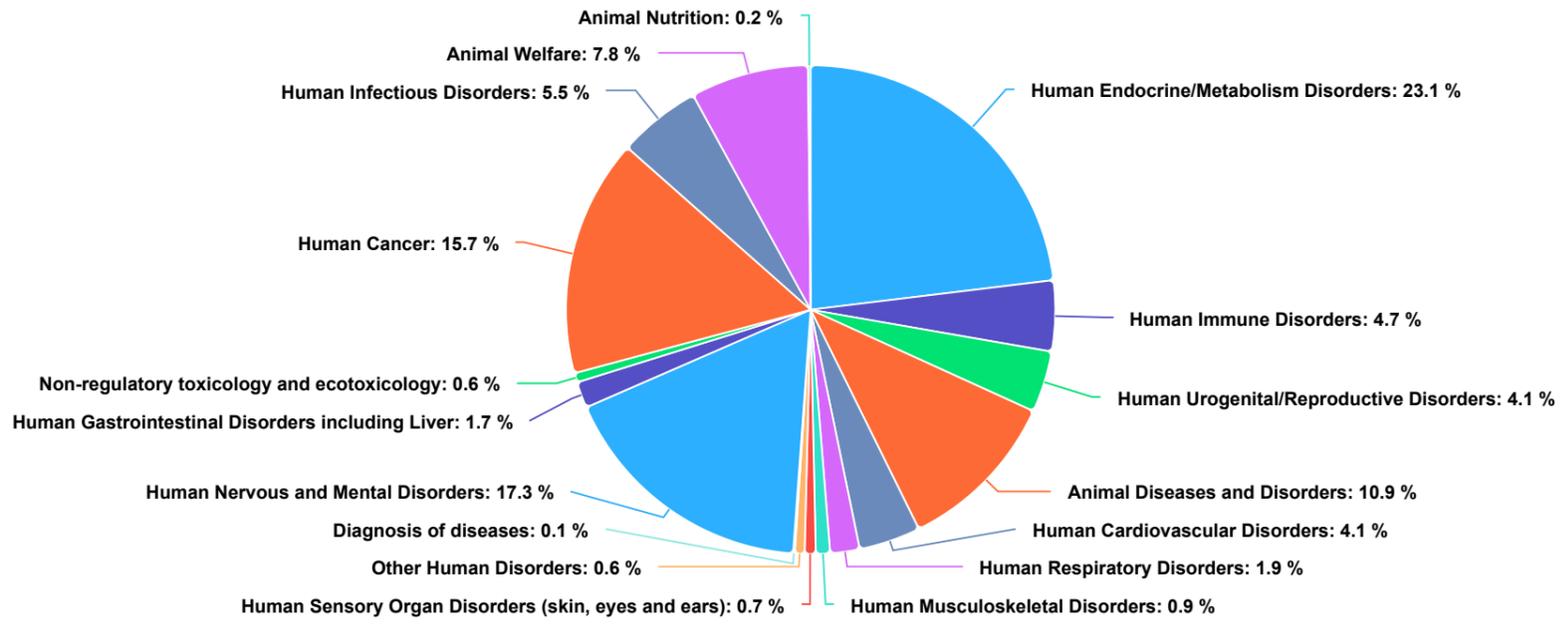


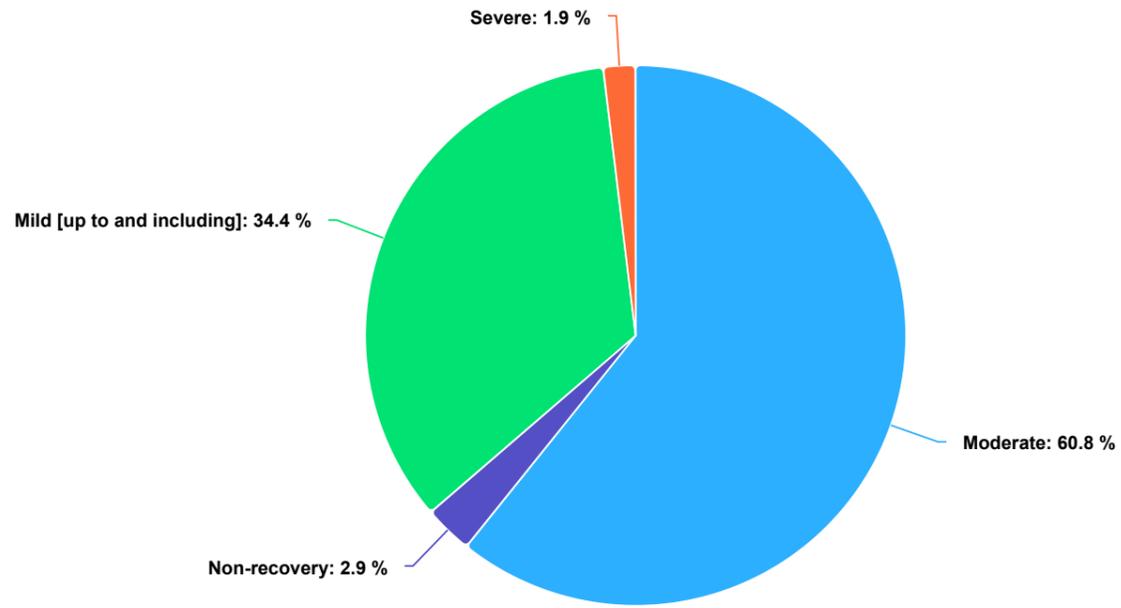


TRANSLATIONAL AND APPLIED RESEARCH RELATED USES

Translational and applied research related uses

Purpose	↑↓	Number of uses	↑↓
Human Cancer		19949	
Human Infectious Disorders		6955	
Human Cardiovascular Disorders		5158	
Human Nervous and Mental Disorders		21958	
Human Respiratory Disorders		2461	
Human Gastrointestinal Disorders including Liver		2200	
Human Musculoskeletal Disorders		1190	
Human Immune Disorders		5940	
Human Urogenital/Reproductive Disorders		5153	
Human Sensory Organ Disorders (skin, eyes and ears)		926	
Human Endocrine/Metabolism Disorders		29262	
Other Human Disorders		822	
Animal Diseases and Disorders		13821	
Animal Nutrition		209	
Animal Welfare		9897	
Diagnosis of diseases		133	
Non-regulatory toxicology and ecotoxicology		790	
Total		126824	

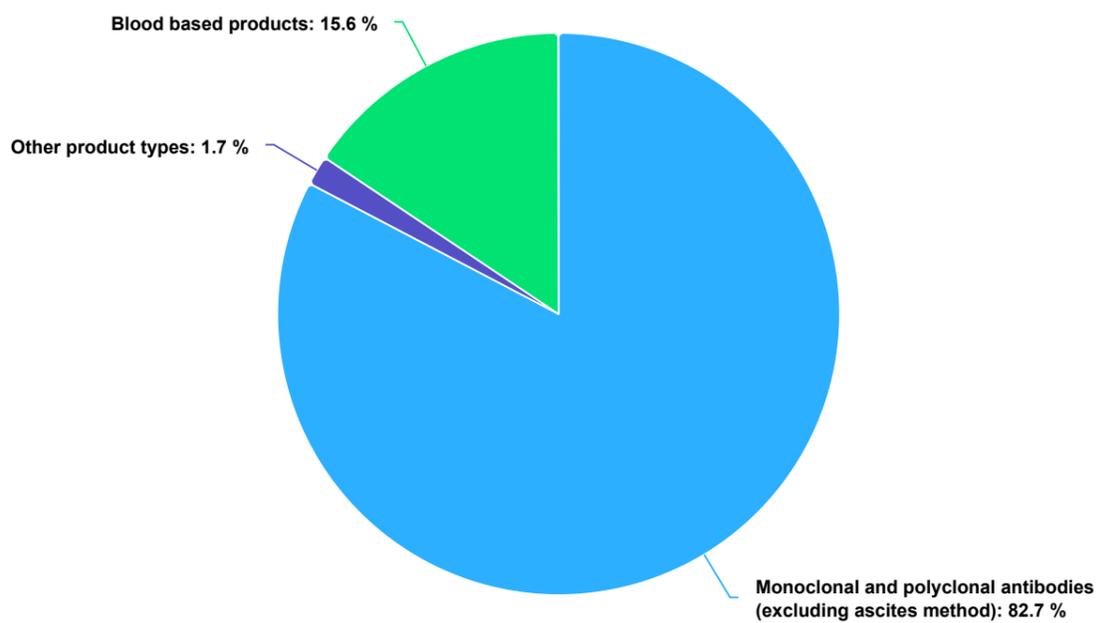


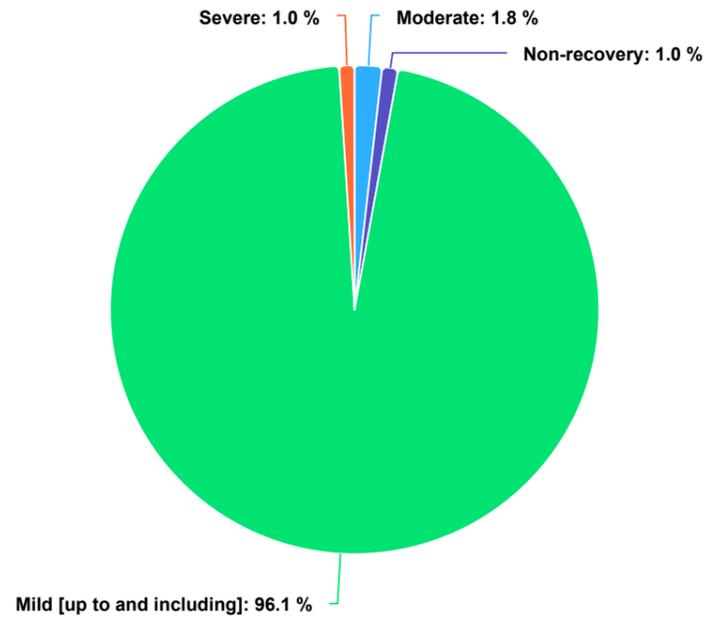


ROUTINE PRODUCTION USES

Routine production uses

Purpose	↑↓	Number of uses	↑↓
Blood based products		431	
Monoclonal and polyclonal antibodies (excluding ascites method)		2284	
Other product types		47	
Total		2762	

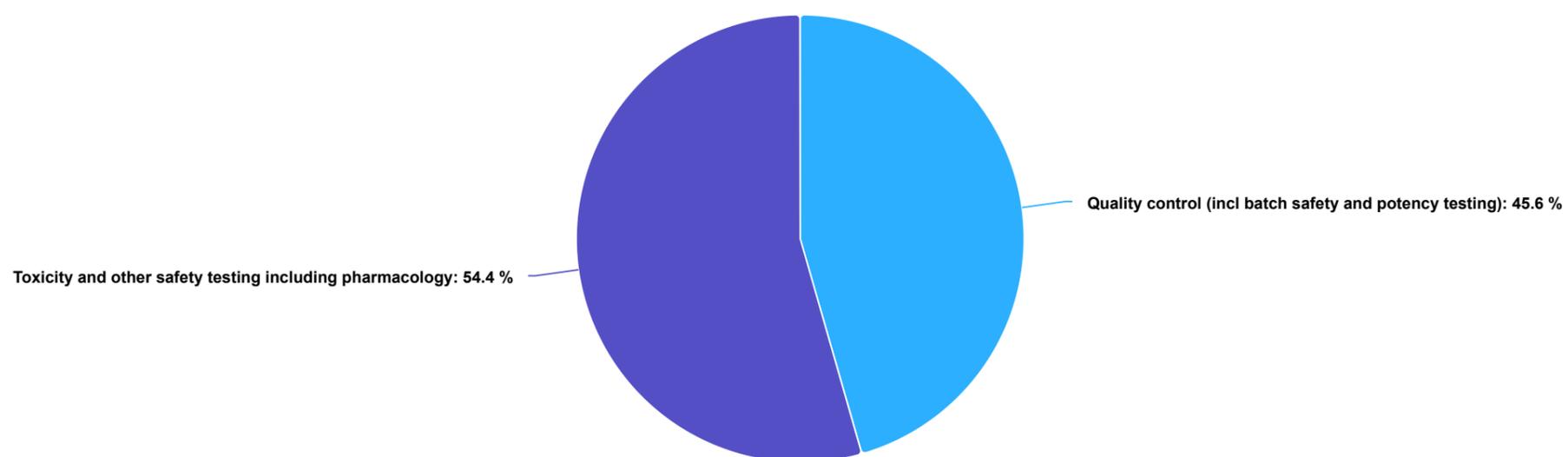


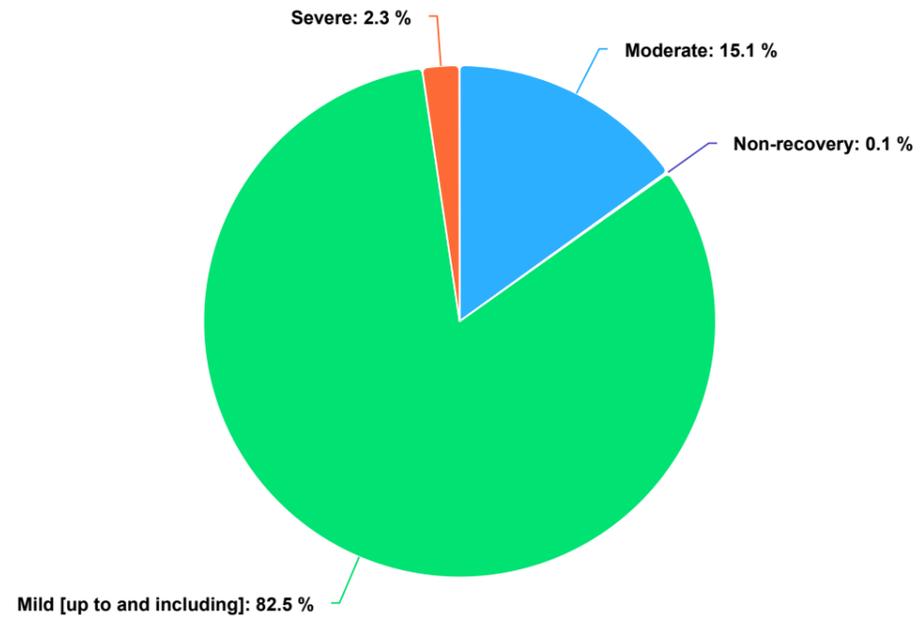


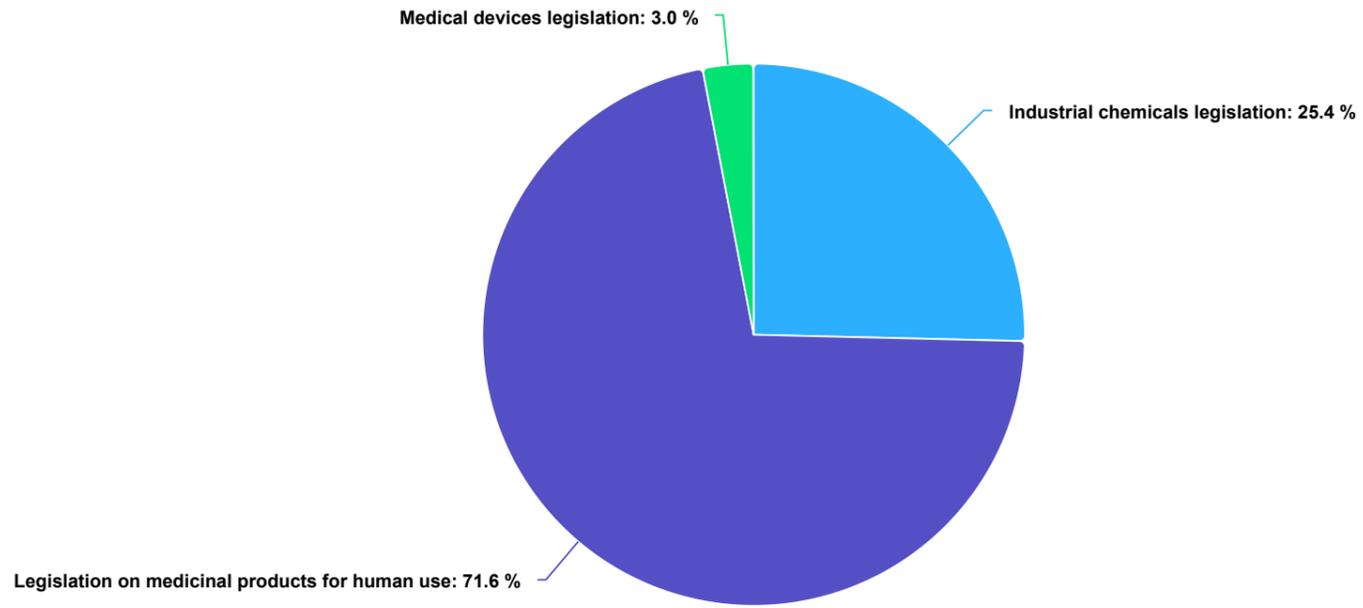
REGULATORY USES

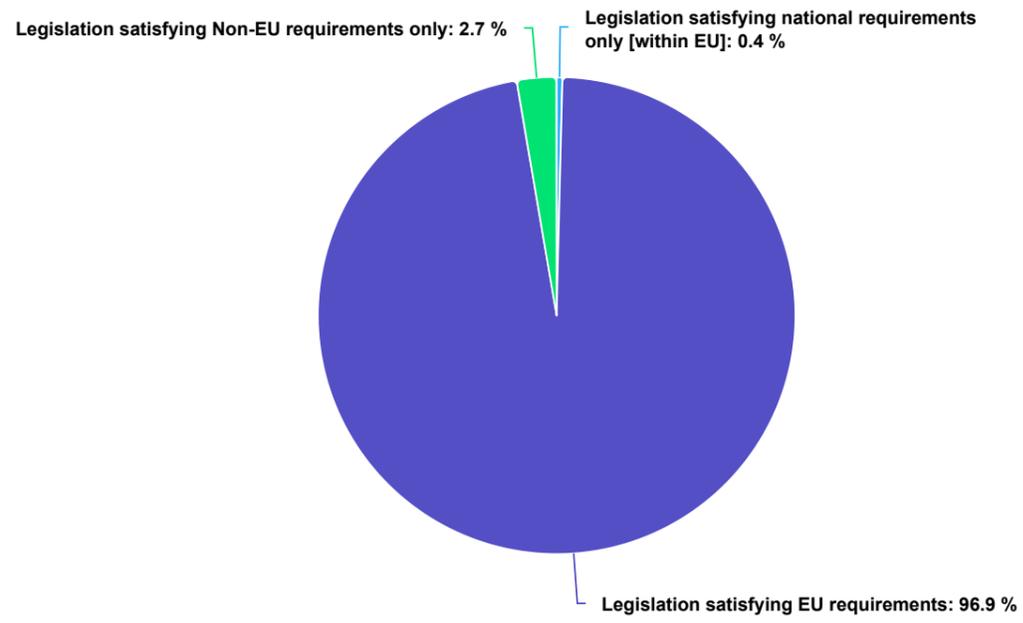
Regulatory uses

Purpose	↑↓	Number of uses ↑↓
Quality control (incl batch safety and potency testing)		5241
Toxicity and other safety testing including pharmacology		6261
Total		11502



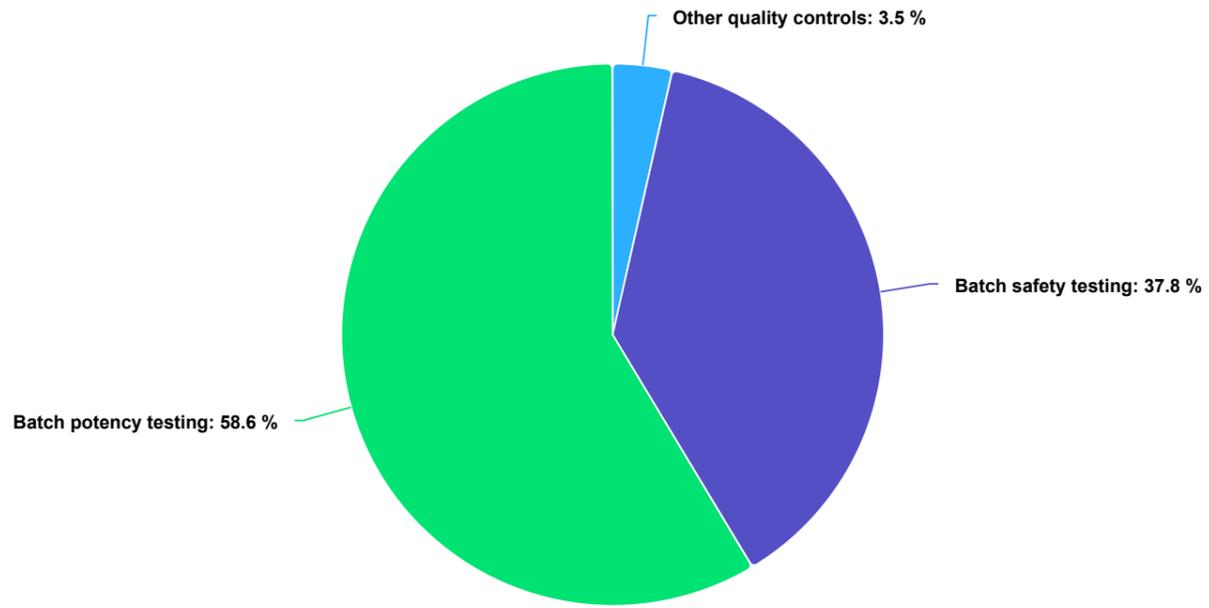


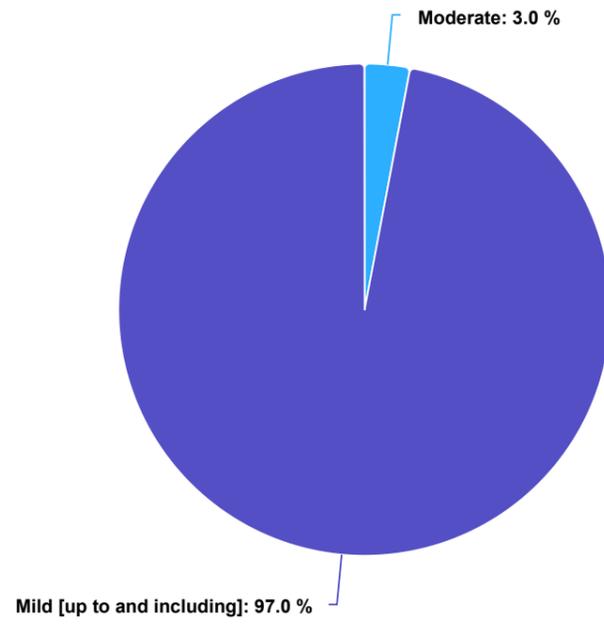


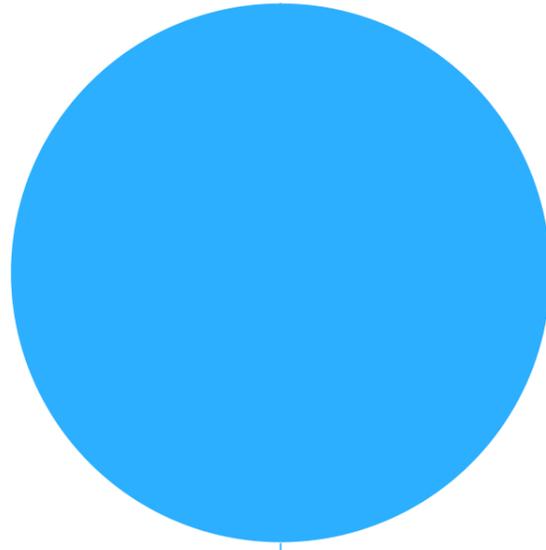


REGULATORY USES: QUALITY CONTROL (INCLUDING BATCH SAFETY AND POTENCY TESTING)**Regulatory uses: Quality control**

Purpose	↑↓	Number of uses ↑↓
Batch safety testing		1983
Batch potency testing		3072
Other quality controls		186
Total		5241



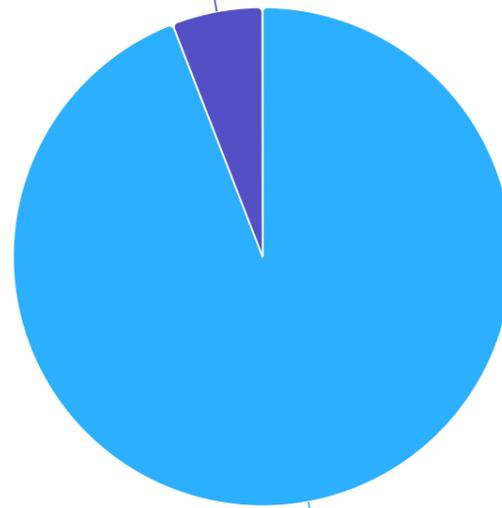




Legislation on medicinal products for human use: 100.0 %



Legislation satisfying Non-EU requirements only: 5.9 %

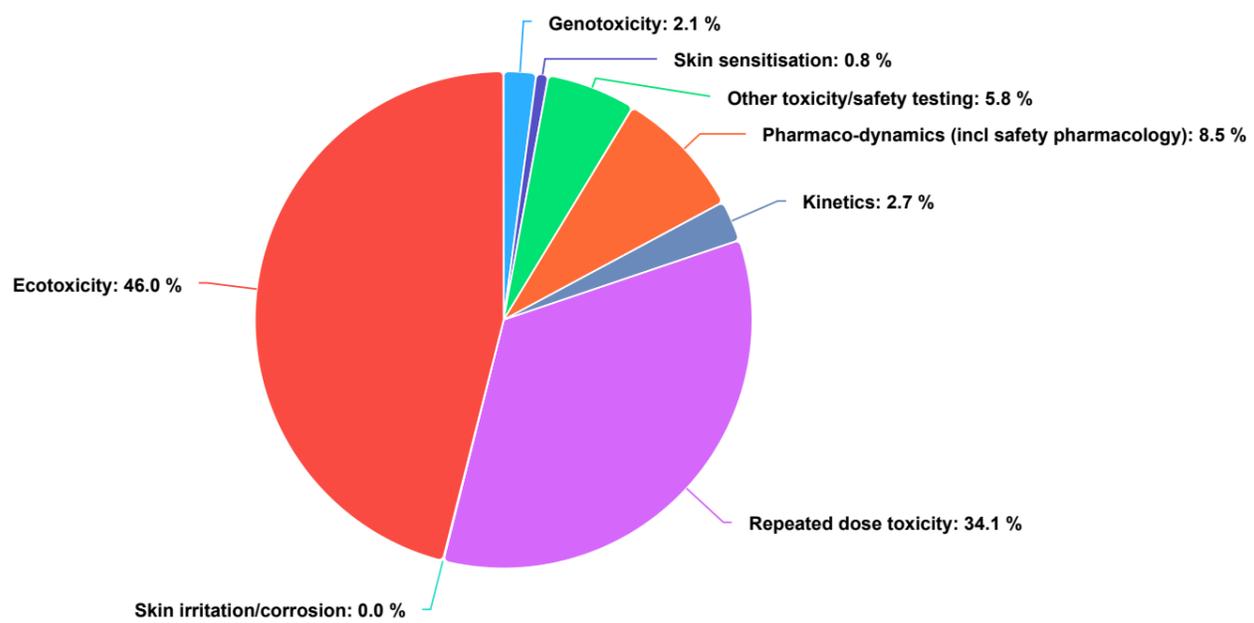


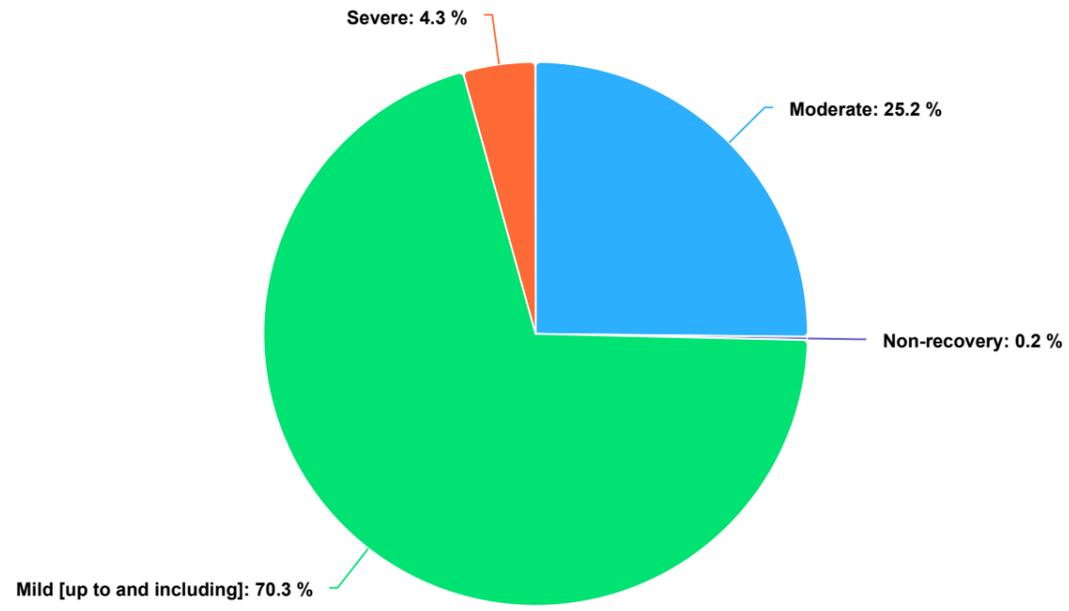
Legislation satisfying EU requirements: 94.1 %

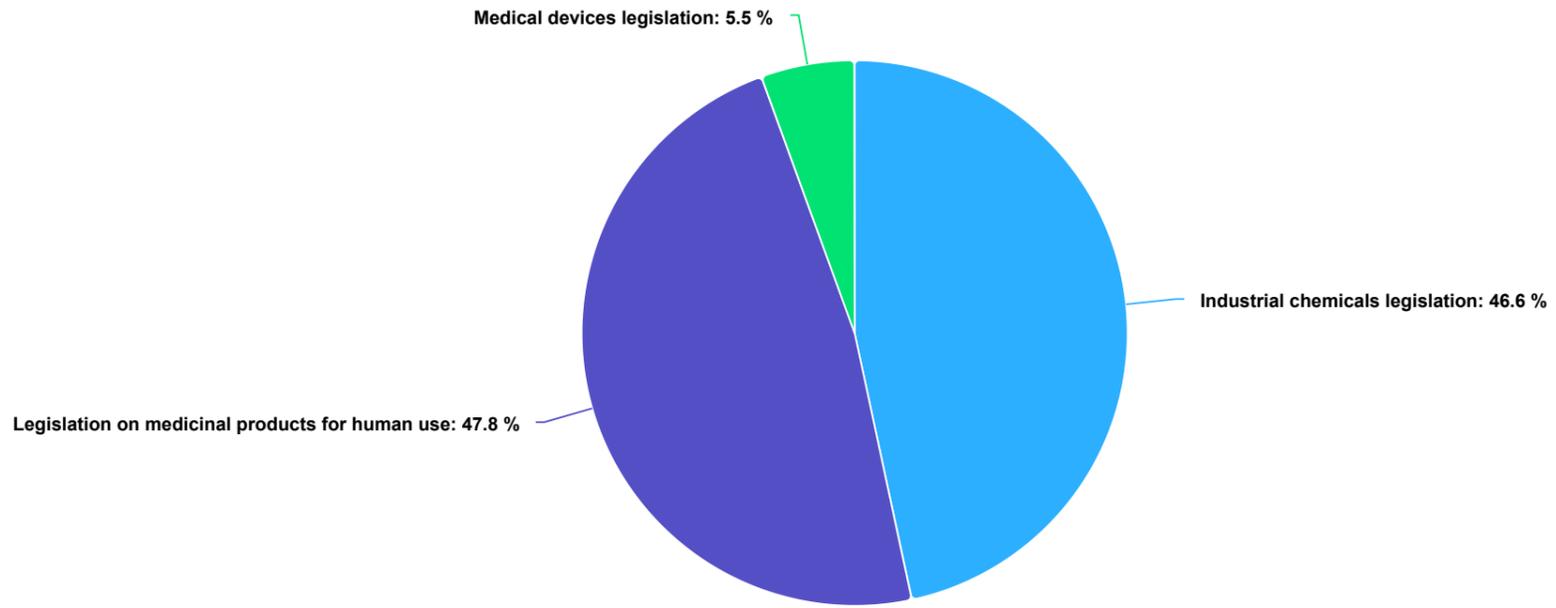
REGULATORY USES: TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY

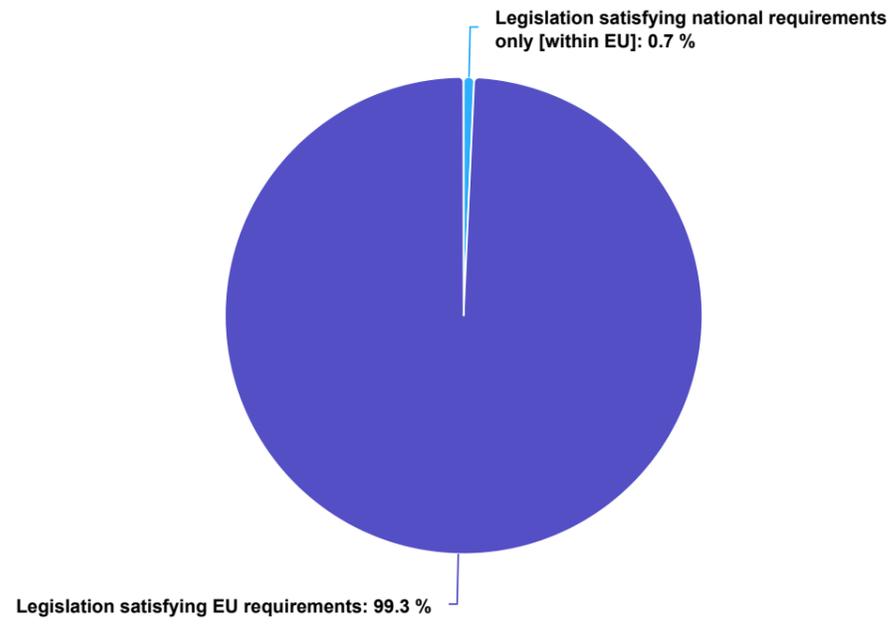
Regulatory uses: Toxicity

Purpose	↑↓	Number of uses	↑↓
Skin irritation/corrosion		3	
Skin sensitisation		49	
Repeated dose toxicity		2135	
Genotoxicity		132	
Kinetics		166	
Pharmaco-dynamics (incl safety pharmacology)		530	
Ecotoxicity		2883	
Other toxicity/safety testing		363	
Total		6261	









REGULATORY USES : TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: ACUTE AND SUB-ACUTE TOXICITY TESTING METHODS

Regulatory uses: Toxicity: Acute and sub-acute

Purpose	↑↓	Number of uses ↑↓
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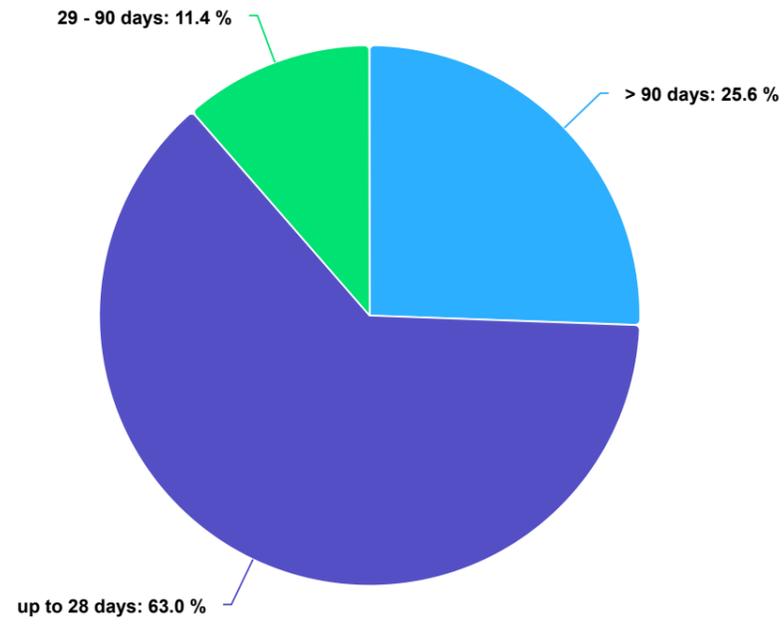
Regulatory uses: Toxicity: Acute and sub-acute

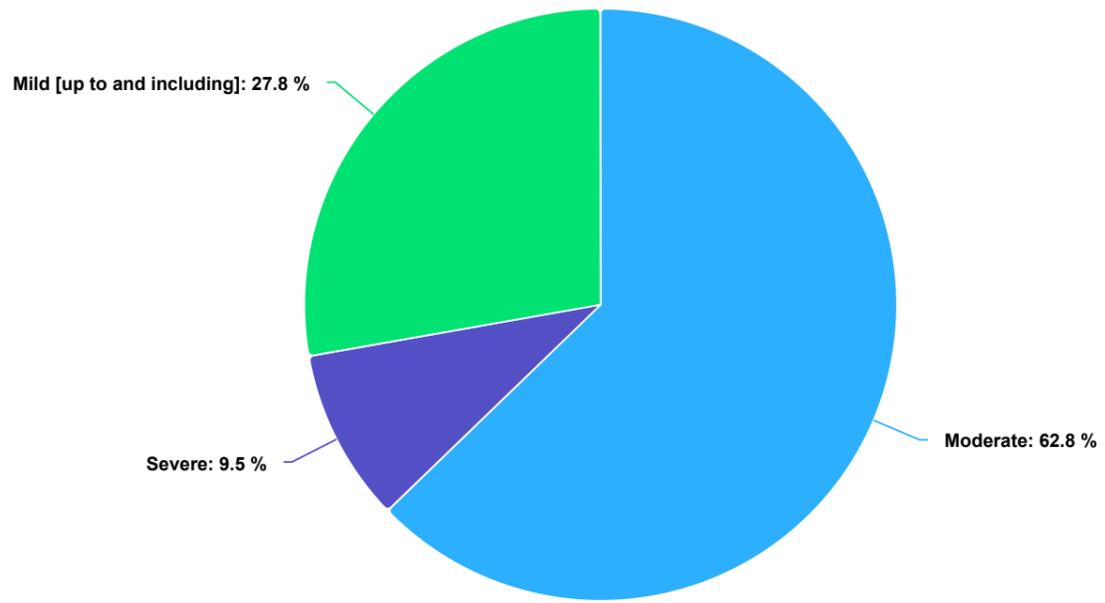
Regulatory uses: Toxicity: Acute and sub-acute by severity

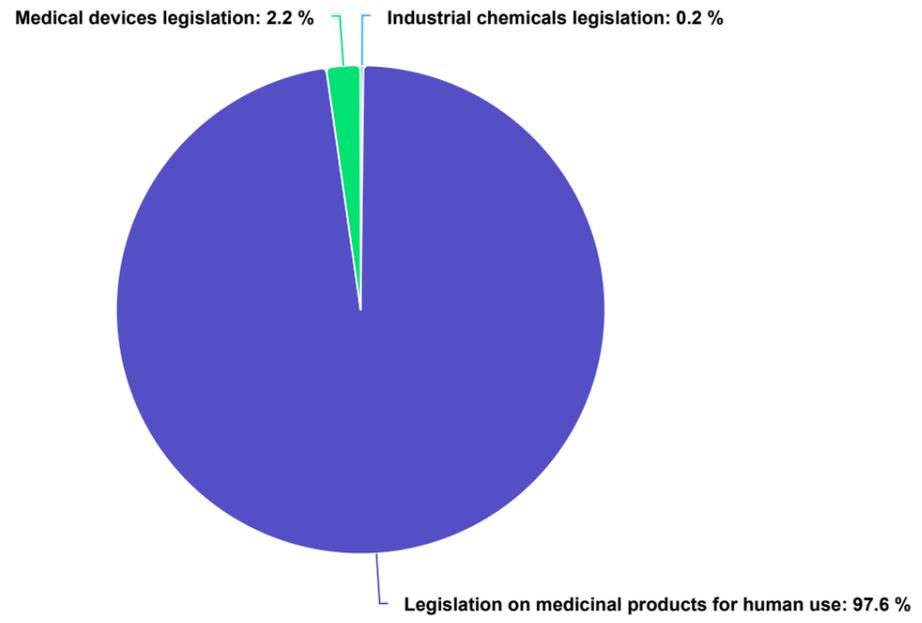
Regulatory uses: Toxicity: Acute and sub-acute by regulatory requirement

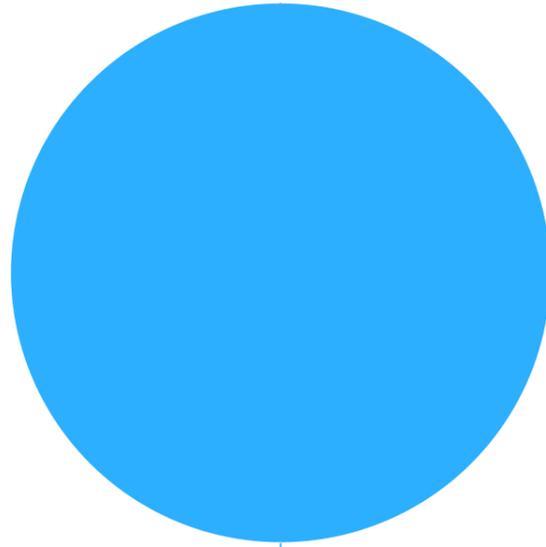
REGULATORY USES: TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: REPEATED DOSE TOXICITY**Regulatory uses: Toxicity: Repeated dose**

Purpose	↑↓	Number of uses ↑↓
up to 28 days		1346
29 - 90 days		243
> 90 days		546
Total		2135





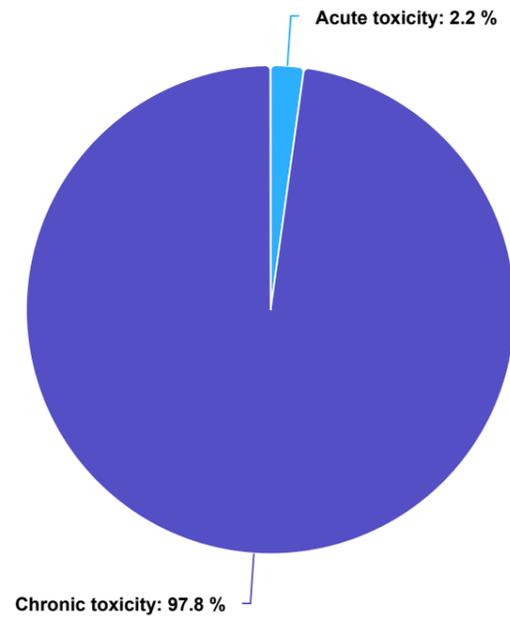


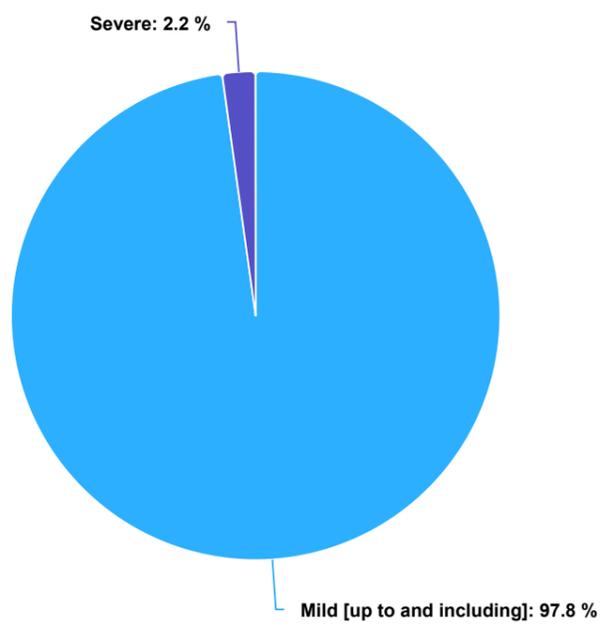


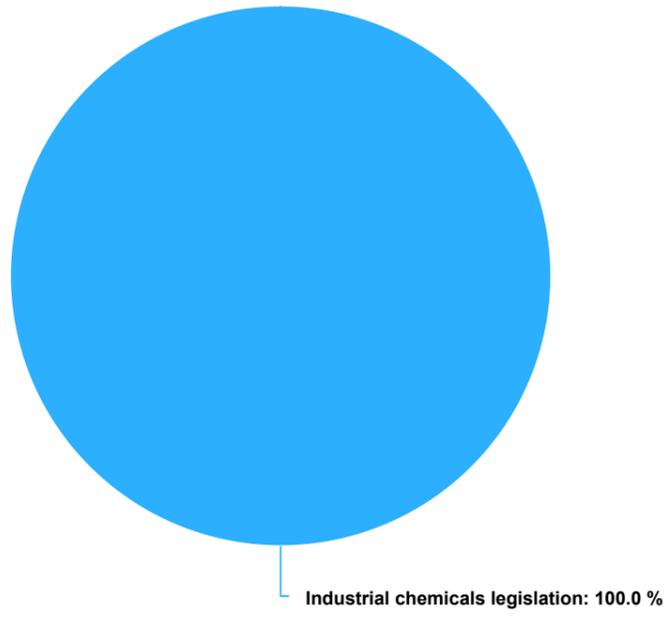
Legislation satisfying EU requirements: 100.0 %

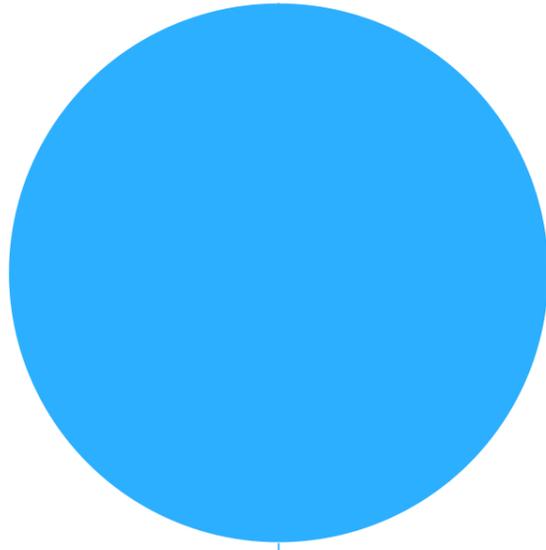
REGULATORY USES: TOXICITY AND OTHER SAFETY TESTING INCLUDING PHARMACOLOGY: ECOTOXICITY**Regulatory uses: Toxicity: Ecotoxicity**

Purpose	↑↓	Number of animals ↑↓
Acute toxicity		63
Chronic toxicity		2820
Total		2883









Legislation satisfying EU requirements: 100.0 %