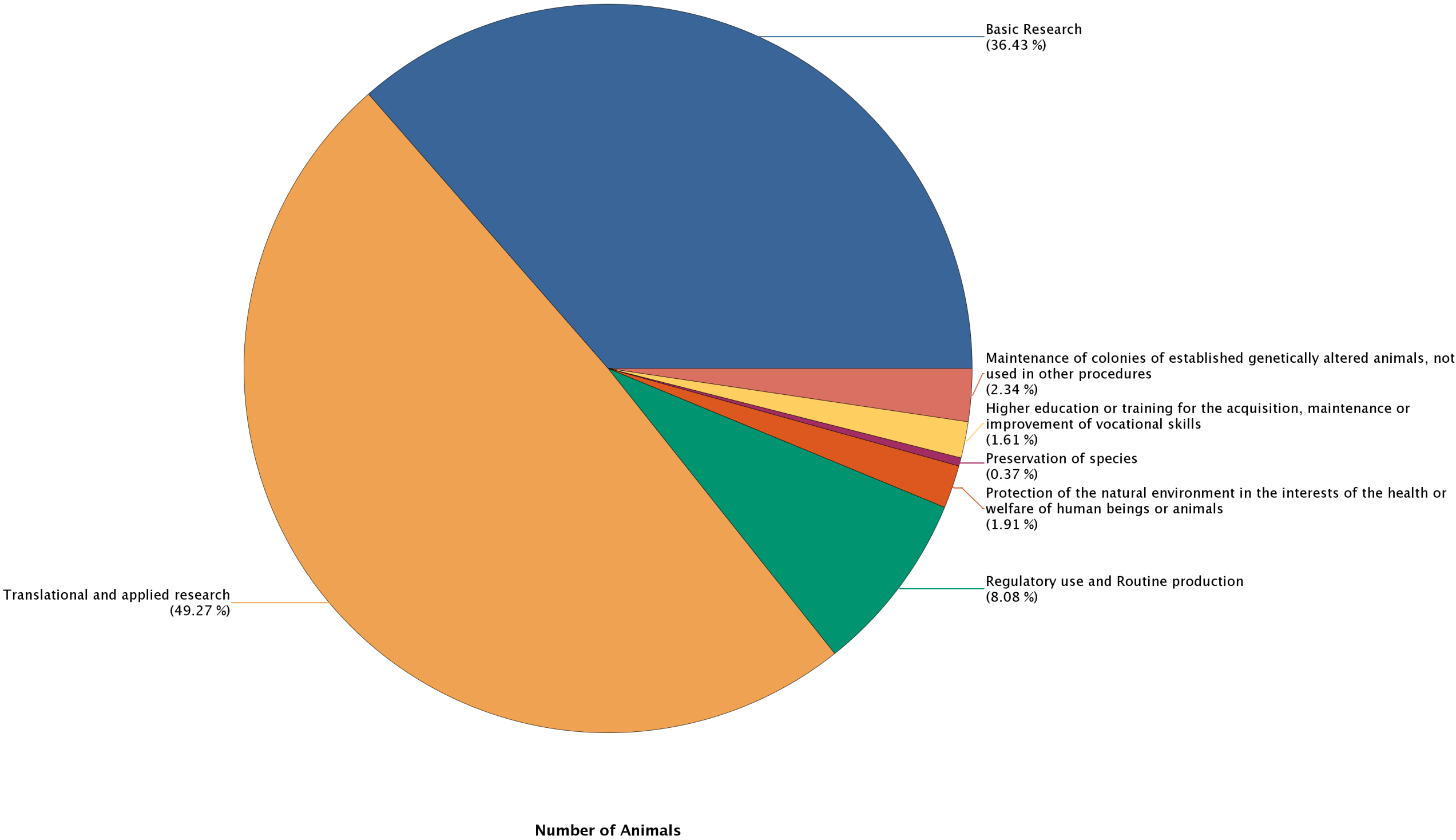


DP.C.1. Use of species in procedures by purposes

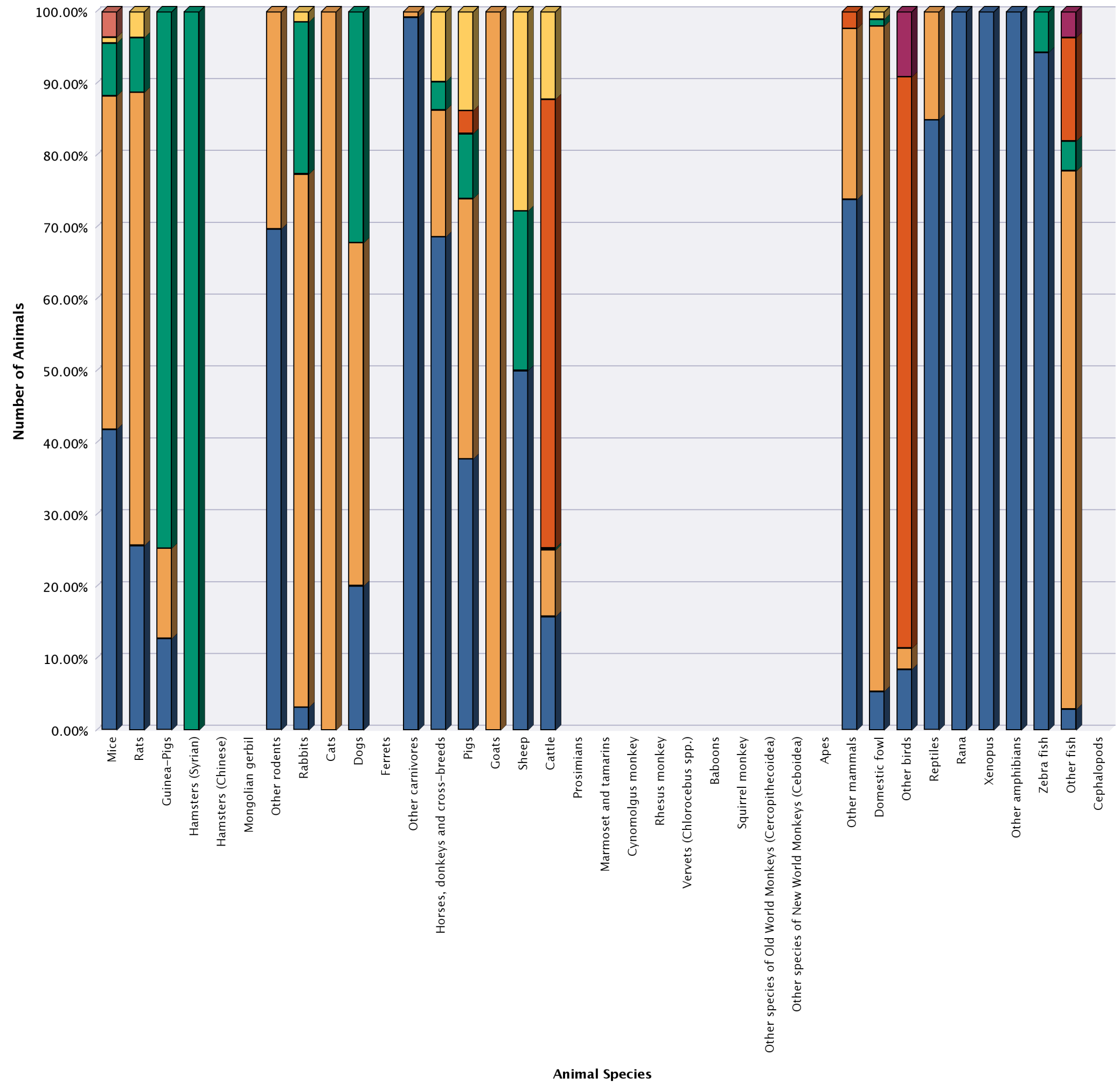
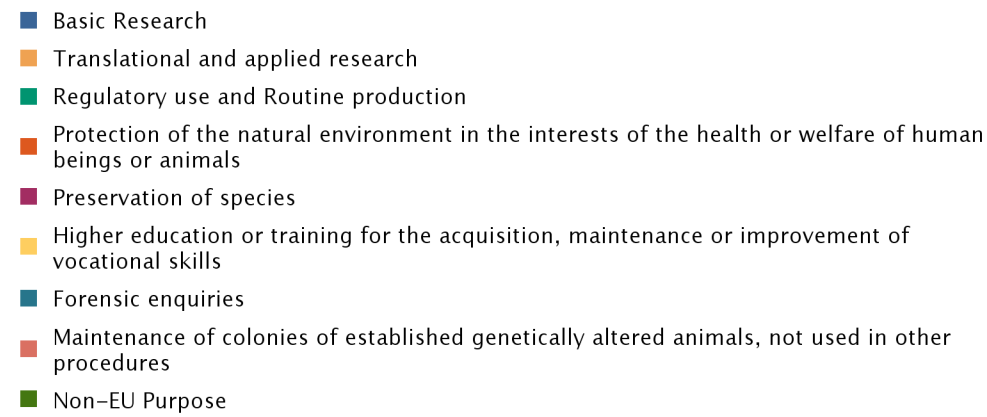
Primary purposes										
	Basic Research	Translational and applied research	Regulatory use and Routine production	Protection of the natural environment in the interests of the health or welfare of human beings or animals	Preservation of species	Higher education or training for the acquisition, maintenance or improvement of vocational skills	Forensic enquiries	Maintenance of colonies of established genetically altered animals, not used in other procedures	Non-EU Purpose	Total
Mice	70,124	77,834	12,334			1,364		6,043		167,699
Rats	9,694	23,825	2,875			1,383				37,777
Guinea-Pigs	498	492	2,923							3,913
Hamsters (Syrian)			6							6
Hamsters (Chinese)										
Mongolian gerbil										
Other rodents	23	10								33
Rabbits	73	1,709	488			34				2,304
Cats		1								1
Dogs	76	181	122							379
Ferrets										
Other carnivores	3,811	32								3,843
Horses, donkeys and cross-breeds	35	9	2			5				51
Pigs	3,260	3,130	780	279		1,194				8,643
Goats		51								51
Sheep	9		4			5				18
Cattle	187	110	3	740		145				1,185
Prosimians										
Marmoset and tamarins										
Cynomolgus monkey										
Rhesus monkey										
Vervets (Chlorocebus spp.)										
Baboons										
Squirrel monkey										
Other species of Old World Monkeys (Cercopithecoid ea)										
Other species of New World Monkeys (Ceboidea)										
Apes										
Other mammals	31	10		1						42
Domestic fowl	68	1,175	12			14				1,269
Other birds	37	13		349	40					439
Reptiles	45	8								53
Rana	452									452
Xenopus	391									391
Other amphibians	72									72
Zebra fish	4,391		266							4,657
Other fish	714	18,533	1,026	3,561	908					24,742

DP.C.1. Use of species in procedures by purposes

	Basic Research	Translational and applied research	Regulatory use and Routine production	Protection of the natural environment in the interests of the health or welfare of human beings or animals	Preservation of species	Higher education or training for the acquisition, maintenance or improvement of vocational skills	Forensic enquiries	Maintenance of colonies of established genetically altered animals, not used in other procedures	Non-EU Purpose	Total
Cephalopods										
Total	93,991	127,123	20,841	4,930	948	4,144		6,043		258,020



### DP.C.1. Use of species in procedures by purposes

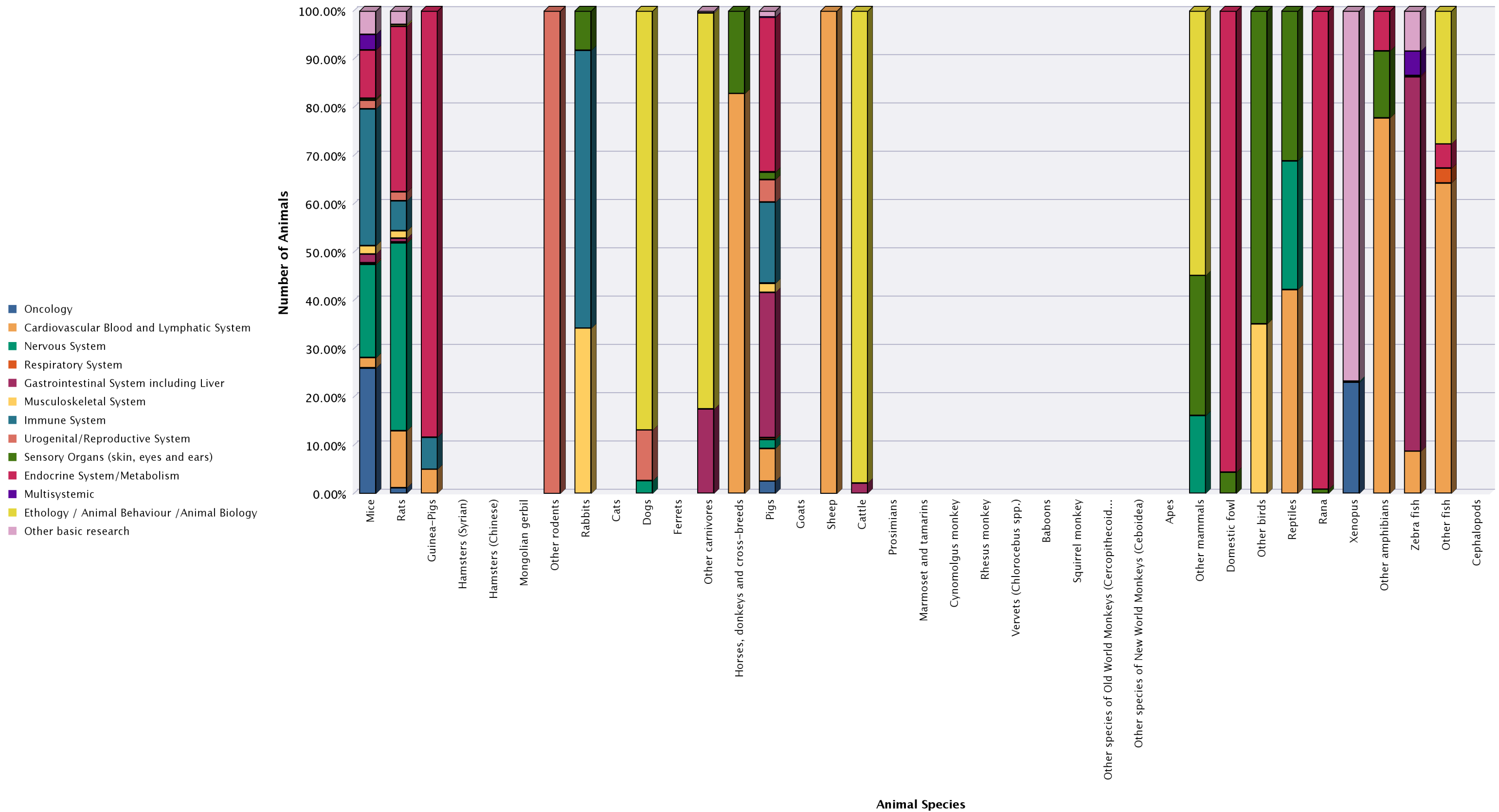


DP.C.1. Use of species in procedures by purposes

Basic research purposes														
	Oncology	Cardiovascular Blood and Lymphatic System	Nervous System	Respiratory System	Gastrointestin al System including Liver	Musculoskelet al System	Immune System	Urogenital/ Reproductive System	Sensory Organs (skin, eyes and ears)	Endocrine System/ Metabolism	Multisystemic	Ethology / Animal Behaviour / Animal Biology	Other basic research	Total
Mice	18,216	1,504	13,553	225	1,265	1,235	19,852	1,269	259	7,023	2,255	39	3,429	70,124
Rats	115	1,144	3,770	20	74	149	603	179		3,324		40	276	9,694
Guinea-Pigs		25					33			440				498
Hamsters (Syrian)														
Hamsters (Chinese)														
Mongolian gerbil														
Other rodents								23						23
Rabbits						25	42		6					73
Cats														
Dogs			2					8				66		76
Ferrets														
Other carnivores					666							3,127	18	3,811
Horses, donkeys and cross-breeds		29							6					35
Pigs	84	220	60	12	981	62	548	152	51	1,044	4		42	3,260
Goats														
Sheep		9												9
Cattle					4							183		187
Prosimians														
Marmoset and tamarins														
Cynomolgus monkey														
Rhesus monkey														
Vervets (Chlorocebus spp.)														
Baboons														
Squirrel monkey														
Other species of Old World Monkeys (Cercopithecoid ea)														
Other species of New World Monkeys (Ceboidea)														
Apes														
Other mammals			5						9			17		31
Domestic fowl									3	65				68
Other birds						13			24					37
Reptiles		19	12						14					45
Rana									4	448				452
Xenopus	90		1										300	391
Other amphibians		56							10	6				72
Zebra fish		385			3,405					10	224		367	4,391
Other fish		459		22						36		197		714
Cephalopods														
Total	18,505	3,850	17,403	279	6,395	1,484	21,078	1,631	386	12,396	2,483	3,669	4,432	93,991

### DP.C.1. Use of species in procedures by purposes

	Oncology	Cardiovascular Blood and Lymphatic System	Nervous System	Respiratory System	Gastrointestin al System including Liver	Musculoskelet al System	Immune System	Urogenital/ Reproductive System	Sensory Organs (skin, eyes and ears)	Endocrine System/ Metabolism	Multisystemic	Ethology / Animal Behaviour / Animal Biology	Other basic research	Total
%	19.69%	4.10%	18.52%	0.30%	6.80%	1.58%	22.43%	1.74%	0.41%	13.19%	2.64%	3.90%	4.72%	



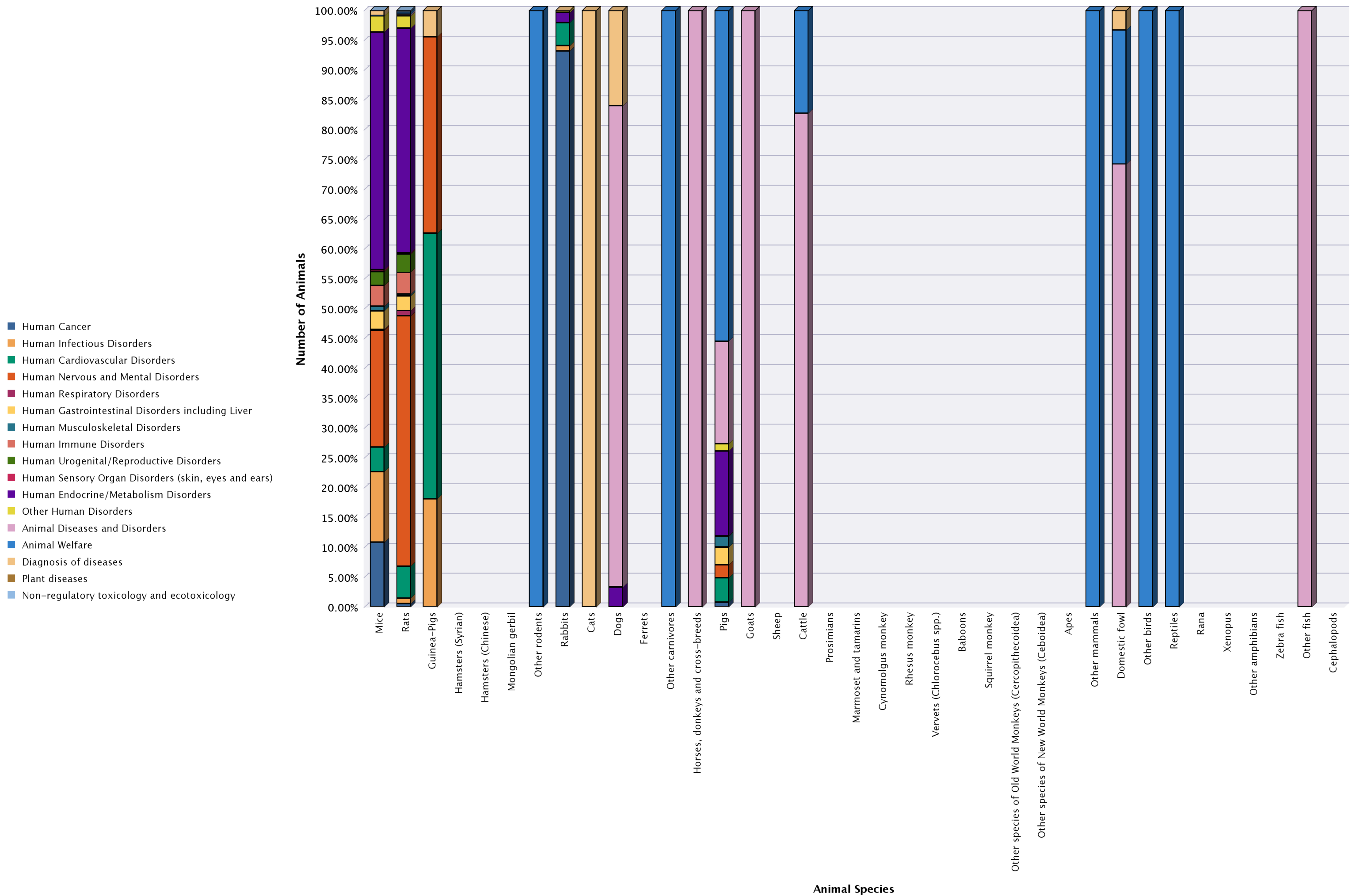
DP.C.1. Use of species in procedures by purposes

Translational and applied research purposes																		
	Human Cancer	Human Infectious Disorders	Human Cardiovascular Disorders	Human Nervous and Mental Disorders	Human Respiratory Disorders	Human Gastrointestinal Disorders including Liver	Human Musculoskeletal Disorders	Human Immune Disorders	Human Urogenital/ Reproductive Disorders	Human Sensory Organ Disorders (skin, eyes and ears)	Human Endocrine/ Metabolism Disorders	Other Human Disorders	Animal Diseases and Disorders	Animal Welfare	Diagnosis of diseases	Plant diseases	Non-regulatory toxicology and ecotoxicology	Total
Mice	8,419	9,203	3,208	15,255	110	2,404	609	2,709	1,800	239	31,020	2,108		19	679		52	77,834
Rats	127	217	1,276	9,995	214	585	70	874	729	49	8,966	489	69	91			74	23,825
Guinea-Pigs		89	219	162											22			492
Hamsters (Syrian)																		
Hamsters (Chinese)																		
Mongolian gerbil																		
Other rodents														10				10
Rabbits	1,592	15	66								29	5			2			1,709
Cats															1			1
Dogs											6		146		29			181
Ferrets																		
Other carnivores														32				32
Horses, donkeys and cross-breeds																		9
Pigs	24		128	69		92	57		2		445	39	537	1,737				3,130
Goats													51					51
Sheep																		
Cattle													91	19				110
Prosimians																		
Marmoset and tamarins																		
Cynomolgus monkey																		
Rhesus monkey																		
Vervets (Chlorocebus spp.)																		
Baboons																		
Squirrel monkey																		
Other species of Old World Monkeys (Cercopithecoidea)																		
Other species of New World Monkeys (Ceboidea)																		
Apes																		
Other mammals														10				10
Domestic fowl													872	264	39			1,175
Other birds														13				13
Reptiles														8				8
Rana																		
Xenopus																		
Other amphibians																		
Zebra fish																		
Other fish													18,533					18,533

DP.C.1. Use of species in procedures by purposes

	Human Cancer	Human Infectious Disorders	Human Cardiovascular Disorders	Human Nervous and Mental Disorders	Human Respiratory Disorders	Human Gastrointestinal Disorders including Liver	Human Musculoskeletal Disorders	Human Immune Disorders	Human Urogenital/Reproductive Disorders	Human Sensory Organ Disorders (skin, eyes and ears)	Human Endocrine/Metabolism Disorders	Other Human Disorders	Animal Diseases and Disorders	Animal Welfare	Diagnosis of diseases	Plant diseases	Non-regulatory toxicology and ecotoxicology	Total
Cephalopods																		
Total	10,162	9,524	4,897	25,481	324	3,081	736	3,583	2,531	288	40,466	2,641	20,308	2,203	772		126	127,123
%	7.99%	7.49%	3.85%	20.04%	0.25%	2.42%	0.58%	2.82%	1.99%	0.23%	31.83%	2.08%	15.98%	1.73%	0.61%		0.10%	

### DP.C.1. Use of species in procedures by purposes

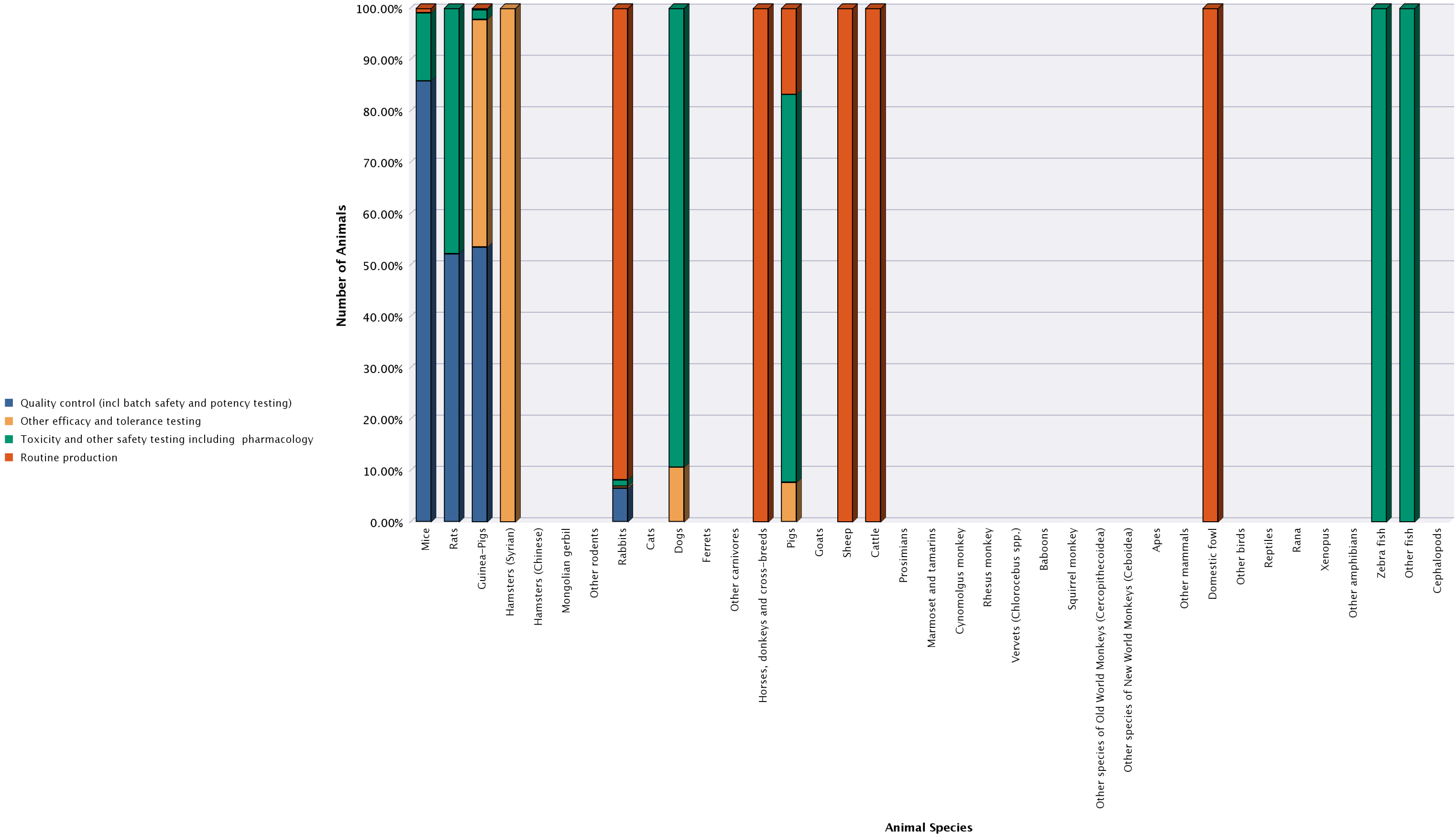




DP.C.1. Use of species in procedures by purposes

Regulatory use and routine production purposes					
	Quality control (incl batch safety and potency testing)	Other efficacy and tolerance testing	Toxicity and other safety testing including pharmacology	Routine production	Total
Mice	10,585		1,637	112	12,334
Rats	1,500		1,375		2,875
Guinea-Pigs	1,564	1,294	56	9	2,923
Hamsters (Syrian)		6			6
Hamsters (Chinese)					
Mongolian gerbil					
Other rodents					
Rabbits	32	2	6	448	488
Cats					
Dogs		13	109		122
Ferrets					
Other carnivores					
Horses, donkeys and cross-breeds				2	2
Pigs		60	589	131	780
Goats					
Sheep				4	4
Cattle				3	3
Prosimians					
Marmoset and tamarins					
Cynomolgus monkey					
Rhesus monkey					
Vervets (Chlorocebus spp.)					
Baboons					
Squirrel monkey					
Other species of Old World Monkeys (Cercopithecoidea)					
Other species of New World Monkeys (Ceboidea)					
Apes					
Other mammals					
Domestic fowl				12	12
Other birds					
Reptiles					
Rana					
Xenopus					
Other amphibians					
Zebra fish			266		266
Other fish			1,026		1,026
Cephalopods					
Total	13,681	1,375	5,064	721	20,841
%	65.64%	6.60%	24.30%	3.46%	

DP.C.1. Use of species in procedures by purposes

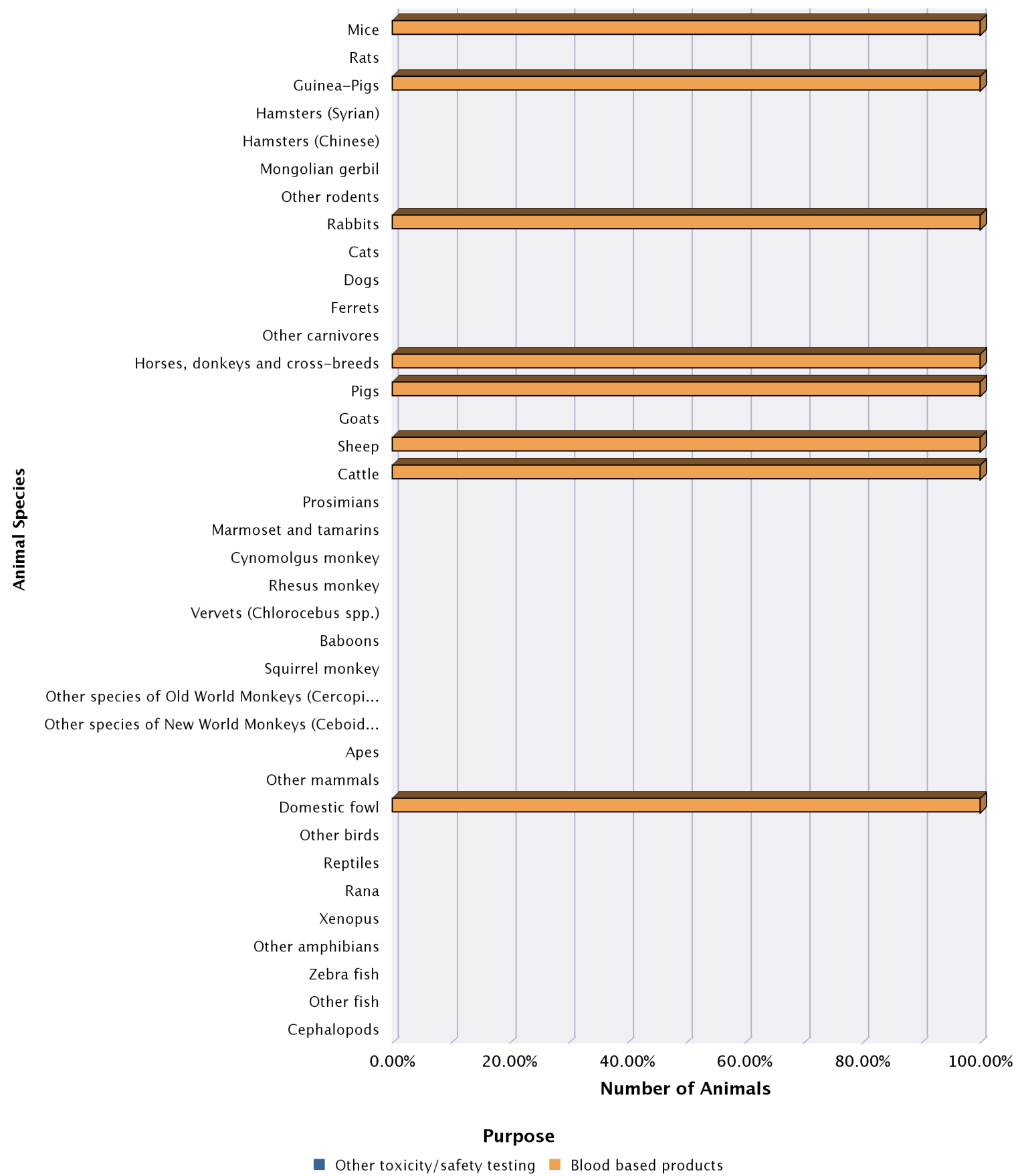
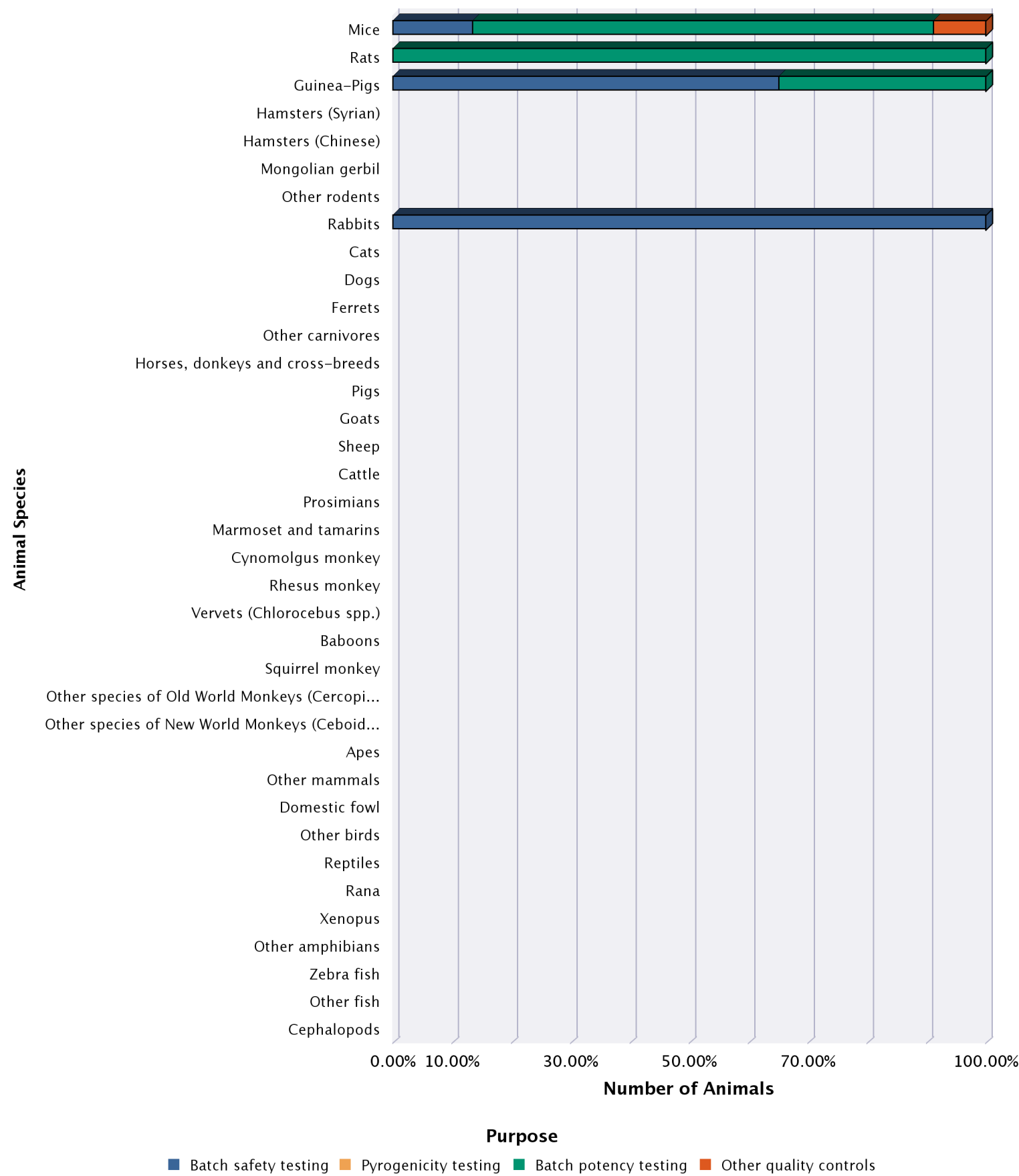


DP.C.1. Use of species in procedures by purposes

Quality control purposes					
	Batch safety testing	Pyrogenicity testing	Batch potency testing	Other quality controls	Total
Mice	1,420		8,226	939	10,585
Rats			1,500		1,500
Guinea-Pigs	1,018		546		1,564
Hamsters (Syrian)					
Hamsters (Chinese)					
Mongolian gerbil					
Other rodents					
Rabbits	32				32
Cats					
Dogs					
Ferrets					
Other carnivores					
Horses, donkeys and cross-breeds					
Pigs					
Goats					
Sheep					
Cattle					
Prosimians					
Marmoset and tamarins					
Cynomolgus monkey					
Rhesus monkey					
Vervets (Chlorocebus spp.)					
Baboons					
Squirrel monkey					
Other species of Old World Monkeys (Cercopithecoid ea)					
Other species of New World Monkeys (Ceboidea)					
Apes					
Other mammals					
Domestic fowl					
Other birds					
Reptiles					
Rana					
Xenopus					
Other amphibians					
Zebra fish					
Other fish					
Cephalopods					
Total	2,470		10,272	939	13,681
%	18.05%		75.08%	6.86%	

Routine production purposes			
	Blood based products	Other product types	Total
Mice	112		112
Rats			
Guinea-Pigs	9		9
Hamsters (Syrian)			
Hamsters (Chinese)			
Mongolian gerbil			
Other rodents			
Rabbits	448		448
Cats			
Dogs			
Ferrets			
Other carnivores			
Horses, donkeys and cross-breeds	2		2
Pigs	99	32	131
Goats			
Sheep	2	2	4
Cattle	3		3
Prosimians			
Marmoset and tamarins			
Cynomolgus monkey			
Rhesus monkey			
Vervets (Chlorocebus spp.)			
Baboons			
Squirrel monkey			
Other species of Old World Monkeys (Cercopithecoid ea)			
Other species of New World Monkeys (Ceboidea)			
Apes			
Other mammals			
Domestic fowl	12		12
Other birds			
Reptiles			
Rana			
Xenopus			
Other amphibians			
Zebra fish			
Other fish			
Cephalopods			
Total	687	34	721
%	95.28%	4.72%	

DP.C.1. Use of species in procedures by purposes



### DP.C.1. Use of species in procedures by purposes

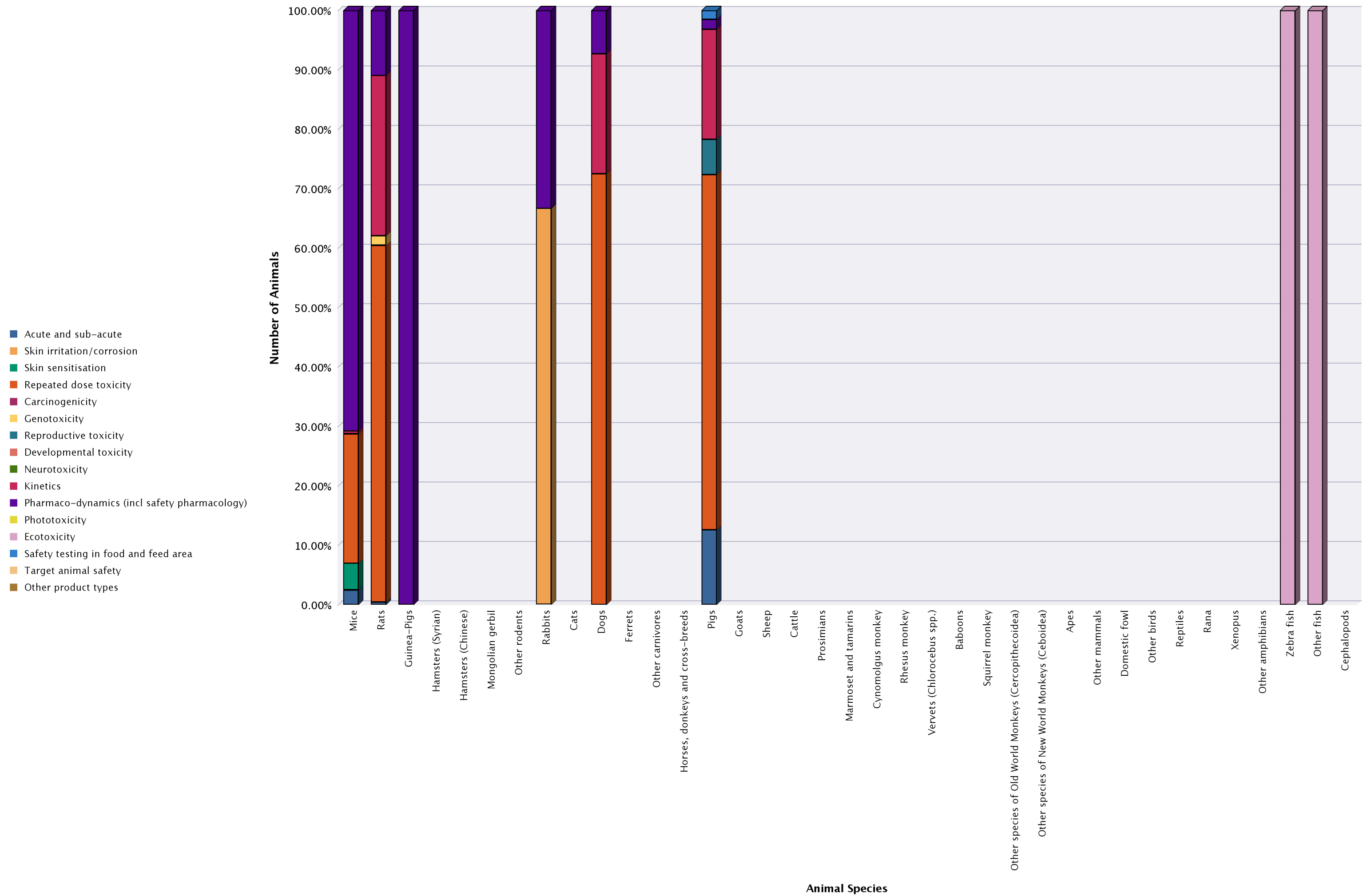
## Toxicity and other safety testing by test type purposes

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DP.C.1. Use of species in procedures by purposes

	Acute and sub-acute	Skin irritation/corrosion	Skin sensitisation	Repeated dose toxicity	Carcinogenicity	Genotoxicity	Reproductive toxicity	Developmental toxicity	Neurotoxicity	Kinetics	Pharmacodynamics (incl safety pharmacology)	Phototoxicity	Ecotoxicity	Safety testing in food and feed area	Target animal safety	Eye irritation/corrosion	Other toxicity/safety testing	Total
Total	120	4	74	1,612		22	35			510	1,386		1,292	9				5,064
%	2.37%	0.08%	1.46%	31.83%		0.43%	0.69%			10.07%	27.37%		25.51%	0.18%				

### DP.C.1. Use of species in procedures by purposes



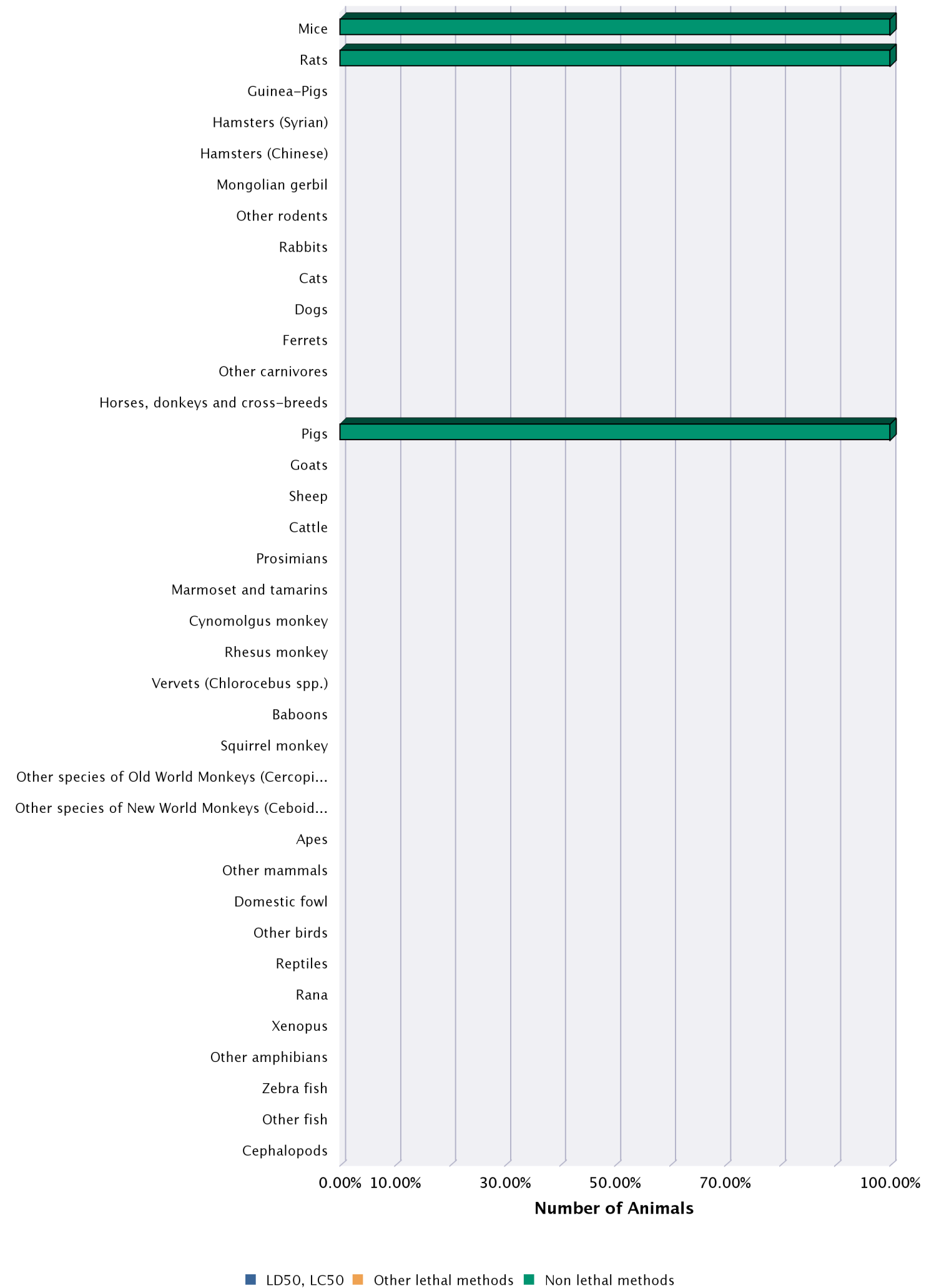
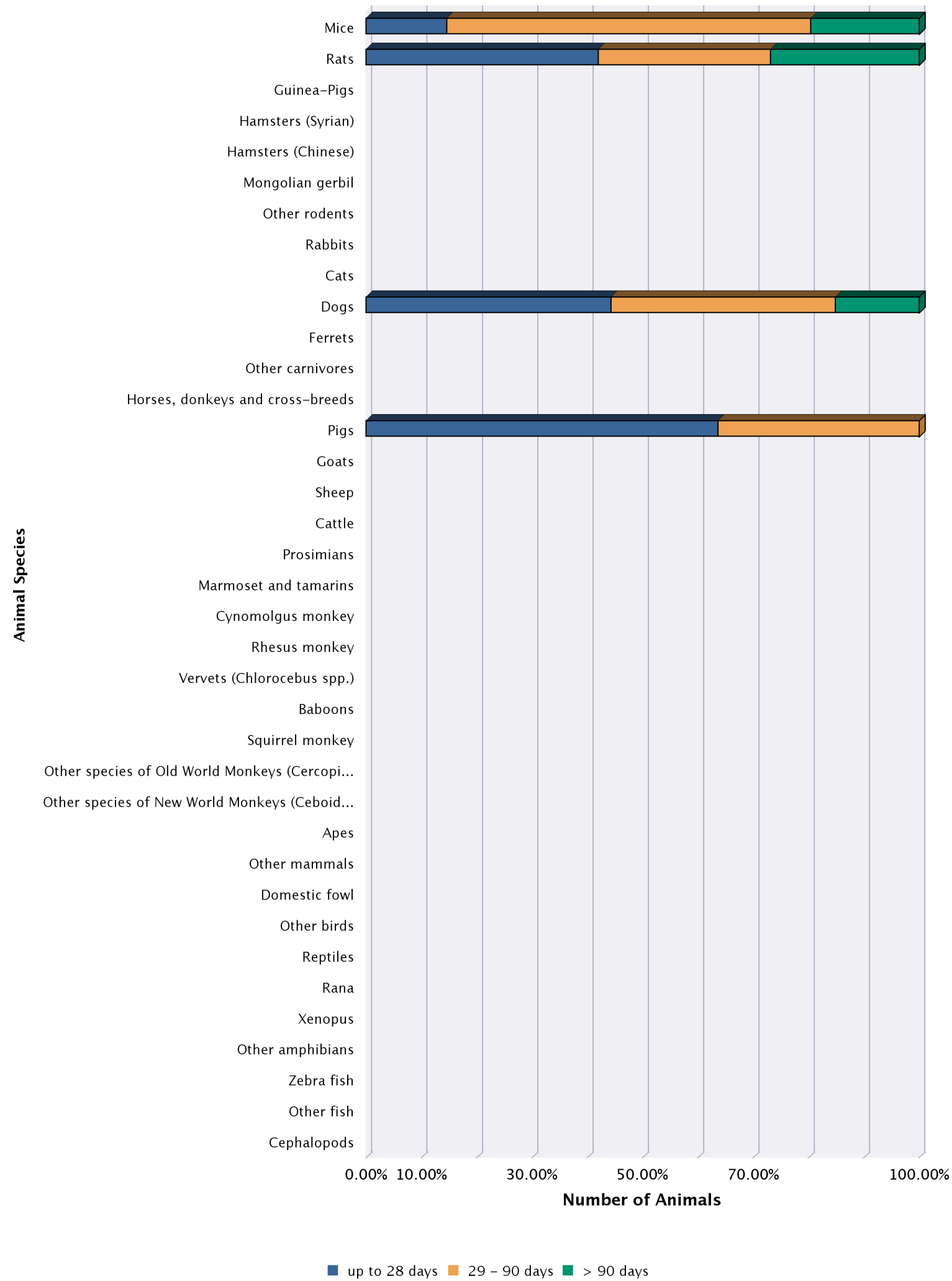
DP.C.1. Use of species in procedures by purposes

Repeated dose toxicity purposes				
	up to 28 days	29 - 90 days	> 90 days	Total
Mice	52	234	70	356
Rats	346	257	222	825
Guinea-Pigs				
Hamsters (Syrian)				
Hamsters (Chinese)				
Mongolian gerbil				
Other rodents				
Rabbits				
Cats				
Dogs	35	32	12	79
Ferrets				
Other carnivores				
Horses, donkeys and cross-breeds				
Pigs	224	128		352
Goats				
Sheep				
Cattle				
Prosimians				
Marmoset and tamarins				
Cynomolgus monkey				
Rhesus monkey				
Vervets (Chlorocebus spp.)				
Baboons				
Squirrel monkey				
Other species of Old World Monkeys (Cercopithecoidea)				
Other species of New World Monkeys (Ceboidea)				
Apes				
Other mammals				
Domestic fowl				
Other birds				
Reptiles				
Rana				
Xenopus				
Other amphibians				
Zebra fish				
Other fish				
Cephalopods				
Total	657	651	304	1,612
%	40.76%	40.38%	18.86%	

Acute and sub-acute toxicity testing methods				
	LD50, LC50	Other lethal methods	Non lethal methods	Total
Mice			40	40
Rats			6	6
Guinea-Pigs				
Hamsters (Syrian)				
Hamsters (Chinese)				
Mongolian gerbil				
Other rodents				
Rabbits				
Cats				
Dogs				
Ferrets				
Other carnivores				
Horses, donkeys and cross-breeds				
Pigs			74	74
Goats				
Sheep				
Cattle				
Prosimians				
Marmoset and tamarins				
Cynomolgus monkey				
Rhesus monkey				
Vervets (Chlorocebus spp.)				
Baboons				
Squirrel monkey				
Other species of Old World Monkeys (Cercopithecoidea)				
Other species of New World Monkeys (Ceboidea)				
Apes				
Other mammals				
Domestic fowl				
Other birds				
Reptiles				
Rana				
Xenopus				
Other amphibians				
Zebra fish				
Other fish				
Cephalopods				
Total			120	120
%			100.00%	



DP.C.1. Use of species in procedures by purposes



DP.C.1. Use of species in procedures by purposes

Ecotoxicity purposes							
	Acute toxicity	Chronic toxicity	Reproductive ecotoxicity	Endocrine activity	Bioaccumulation	Other ecotoxicity	Total
Mice							
Rats							
Guinea-Pigs							
Hamsters (Syrian)							
Hamsters (Chinese)							
Mongolian gerbil							
Other rodents							
Rabbits							
Cats							
Dogs							
Ferrets							
Other carnivores							
Horses, donkeys and cross-breeds							
Pigs							
Goats							
Sheep							
Cattle							
Prosimians							
Marmoset and tamarins							
Cynomolgus monkey							
Rhesus monkey							
Vervets (Chlorocebus spp.)							
Baboons							
Squirrel monkey							
Other species of Old World Monkeys (Cercopithecoidea)							
Other species of New World Monkeys (Ceboidea)							
Apes							
Other mammals							
Domestic fowl							
Other birds							
Reptiles							
Rana							
Xenopus							
Other amphibians							
Zebra fish	56	210					266
Other fish	126	900					1,026
Cephalopods							
Total	182	1,110					1,292
%	14.09%	85.91%					

DP.C.1. Use of species in procedures by purposes

