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Bustad, Leo K.; Hegreberg, Gerald A.; Padgett, George A.; National Research Council

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**NATURALLY OCCURRING ANIMAL MODELS OF
HUMAN DISEASE: A BIBLIOGRAPHY***

**Leo K. Bustad, Gerald A. Hegreberg, and George A. Padgett
College of Veterinary Medicine
Washington State University, Pullman**

*Appendix to the paper entitled "Animal Models" presented at the NRC-NAS Symposium on "The Future of Animals Cells, Models, and Systems in Research, Development, Education, and Testing" on October 22 and 23, 1975, at the National Academy of Sciences, Washington, D.C.

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PREFACE

In 1969 C. E. Cornelius published "Animal Models--A Neglected Medical Resource" (N. Engl. J. Med. 281:934-944). Our intent is to update his bibliography to 1975. To achieve this end, we gathered published bibliographies from *ILAR News* and the World Health Organization's Veterinary Public Health unit. In addition, we acquired printouts from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLAR). Finally, we solicited entries from faculty members of the College of Veterinary Medicine, Washington State University.

The resultant references totaled nearly 6,000 items. At this point, we divided the entries into induced and naturally occurring animal models and concentrated only on the latter. Infectious diseases that are caused by viral, bacterial, parasitic, and fungal agents have been, with a few exceptions, omitted from this bibliography. This should not detract from the importance of such diseases. We have elected to include them in a planned bibliography on induced diseases. In addition, we excluded editorials, abstracts, and articles written in a language other than English. Members of the College of Veterinary Medicine's faculty helped select what they thought were the most significant articles, which are listed here.

The completed bibliography contains approximately 890 items. In Part One, articles are grouped according to system or general subject. For each article, the following information is given: animal model; human counterpart (given only if it *differs* from the animal model); species (with "R" indicating restricted availability and "N" indicating not available); and reference number, indicating the location of the complete bibliographic entry in Part Two. Part Two contains an alphabetical listing of all articles indexed in Part One.

Due to limitations of time and lack of availability of materials, we were unable to peruse each article. Therefore, some "educated guesses" had to be made. We apologize for the inclusion of any induced or insignificant models or for the exclusion of significant naturally occurring models.

Leo K. Bustad
Gerald A. Hegreberg
George A. Padgett

PART ONE:
 NATURALLY OCCURRING ANIMAL MODELS OF HUMAN DISEASES

GENERAL REFERENCE AND REVIEWS

Aging	F9, G15, G26
Alimentary system	A30, M36, S20, Y10
Animal models	A24, A25, B32, B33, B53, B72, C7, C46, D16, F25, G12, G29, G39, H56, H57, H58, J14, J18, L6, L12, L18, M10, M53, M63, P32, R8, S2, S47, S71, S87, T28, W9
Cancer research	A26, D5, H13, H44, R1
Cardiovascular system	B50, C21, C23, D13, G43, L50, S2, S23, S72, S78, W25
Ear	B64, S80
Genetics	B27, B28, B48, F6, V1
Immune-allergic diseases	K31, L35, P33, W22
Musculoskeletal system	C19, H23, H72, M75
Nervous system	B19, B46, D2, D21, F23, K6, K23, W13
Respiratory system	H13
Skin and adnexa	B3, B22, H42, K25, S29
Teratology	F24, G32, G38, M72, P46, S27
Viral oncology	M39, V8, Y4

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES [†]	REFERENCE
ALIMENTARY SYSTEM			
Cholangiomas		Mice	V18
Coccidiosis	Intestinal absorption in parasitic infections	Chickens	T29

*Only given if it *differs* from animal model

[†]R = Restricted availability, N = Not available

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
ALIMENTARY SYSTEM (CONT.)			
Colonic adenocarcinoma		Rats (R)	B70
Colitis		Subhuman primates	E9 S74
		Dogs	R34 V10 V11
		Rabbits	V12
Crigler-Najjar syndrome		Rats	B37 C36 O18 S9 S86 Y2
Dubin-Johnson syndrome		Sheep (R)	A29 C33 M47
Esophageal achalasia		Cats	C25
		Dogs	C26
Gastric ulcers		Swine	N15
Gastroenteritis	Infantile viral diarrhea	Swine	K18
Gilbert's disease		Sheep (R)	C32 C34 C35 C37 M28 M29 M46
Helminths		Subhuman primates (R)	C18
Hepatitis		Subhuman primates	L46 S50
		Dogs	M66
Hyperbilirubinemia		Sheep	M48

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
ALIMENTARY SYSTEM (CONT.)			
Malabsorption syndrome			
Iron malabsorption anemia		Rats	B21
Tropical sprue		Swine	K18
Other		Mice (R)	W3
Megacolon			
		Mice	B51
		Swine	O16
Pancreatic insufficiency			
		Mice	P31
Periodontal disease			
		Dogs	H67
		Marmosets	A16
		Subhuman primates	A31
Shigellosis			
		Subhuman primates	M70
CARDIOVASCULAR SYSTEM			
Arteriosclerosis			
		African elephants (N)	M24 M25
		Chickens	M68
		Chickens, turkeys	N4
		Gerbils	W21
		Goats	P40 P41
		Pigeons	L42 P20 S8
		Rabbits	D8 G3 H20
		Rat kangaroos (R)	W4
		Rats	I3
		Swine	G50
		Subhuman primates (R)	C22 N5 P42 S73

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES [†]	REFERENCE	
CARDIOVASCULAR SYSTEM (CONT.)				
		Subhuman primates, carnivores	H21	
Cardiomyopathy	Myocardial failure	Syrian hamsters	B4 G16	
Chronic valvular fibrosis	Primary myocardial disease	Dogs	W1	
Congenital A-V block	A-V block	Dogs	D7	
	Wolff-Parkinson- White syndrome	Dogs	N6	
Congenital cardio- vascular disease		Cats	V3	
		Cattle (R)	K19 V13	
		Dogs (R)	C27 F13 K38 M71 M73 M74 P9 P10 P12 P13 P14 P54	
		Dolphins	G33	
		Gerbils (R)	S34	
		Lambs	D10	
		Swine, dogs (R)	V4	
		Patent ductus arteriosus (PDA)	Dogs (R)	P15
		Subaortic stenosis	Cats Dogs (R)	B52 P55
		Tetralogy of Fallot	Dogs (R)	C20
		Transposition of great vessels	Horses	V16
	Congenital hereditary lymphedema	Milroy's disease	Dogs (R)	P11
	Congestive heart failure		Syrian hamsters	B5

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
CARDIOVASCULAR SYSTEM (CONT.)			
Diffuse fibrosing alveolitis		Cattle	P30
Endocardial fibrosis		Rats	B54
Heart failure		Syrian hamsters	M8
Hyperlipidemia	Hyperlipidemia, atherosclerosis	Chickens	H47
Hypertension		Rats	B35 D1 D30 F4 H40 I1 I5 J15 K41 N1 N16 O2 O4 O5 O6 O7 O11 O12 P24 R3 S1 S13 S32 S58 T1 T2 T6 T7 W16 Y5 Y6 Y7 Y8
		Rabbits	F31
Hypertension-- atherosclerosis		Rats	K32

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
CARDIOVASCULAR SYSTEM (CONT.)			
Hypertension-- diabetes		Rats	H4
Hypotension		Subhuman primates	M3
Lupus erythematosus		Mice	H2
Mitral incompetence (aging)		Dogs	P36
Myocarditis		Rats	S22
Polyarteritis nodosa	Periarteritis nodosa	Mice	W26
Round heart disease	Cardiomyopathy	Turkeys (R)	E5 J3 N11 N12
EAR			
Congenital deafness	Waardenburg's syndrome	Cats	B31 W19
Inner ear degeneration		Guinea pigs	E12
Otitis media		Guinea pigs	K30
Presbycusis		Rats	C44
ENDOCRINE SYSTEM			
Cushing's syndrome		Dogs	S41
Diabetes insipidus		Chickens Rats	D29 C12 K5
Diabetes mellitus		Chinese hamsters	B55 C5 G14 S15

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
ENDOCRINE SYSTEM (CONT.)			
		Mice	B73 C11 C16 C17 C30 C42 D27 E3 H68 I7 I8 I9 L39 L40 L41 M16 M54 S26 S77 W14 W20 W40 Y3
		Mice, Chinese hamsters	B74
		Rats	M18
		Rodents	R9 R11 R12
		Sand rats	H1 M52
		South African hamsters	H6 P3 S16 S79
		Subhuman primates	H60 H61 H62
		Tuco-tuco	W30
		Various	D14 R10
Hyperglycemia	Diabetic microangiopathy	Mice	D26 O13
Hypopituitarism	Pituitary dwarfism	Mice	B13

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
ENDOCRINE SYSTEM (CONT.)			
Obesity or hypothyroidism	Obesity	Rats (R)	B60
Pituitary dwarfism		Mice	R19
Pituitary neoplasia	Hyperpituitarism	Rats	I4
Thyroid goiter		Goats Sheep	V9 F2 M20
Thyroiditis	Hashimoto's disease	Chickens Dogs Rats Chickens Dogs Rats	F16 W34 Z2 B23 K3 K29 M57 H3
Vascular disease	Diabetes mellitus Vascular manifesta- tions of diabetes mellitus	Mice Mice	C2 O14
EYE			
Abnormal visual pathways		Mink	S6
Albinism		Cattle Rats	G8 C8
Anophthalmos		Guinea pigs	K33
Cataracts		Dogs Mice	H43 R30 R31 R32 B63 H71 I6 P27 T17 Z4

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
EYE (CONT.)		Rats	L29 S52 V7
Central retinal degeneration	Macular dystrophies	Cats	F12
Collie eye anomaly	Posterior coloboma	Dogs	B9 L9 M15 R21 W39 Y1
Coloboma		Chickens Subhuman primates	A2 S17
Congenital glaucoma		Rabbits Rats	F28 H17 Y14
Congenital microphthalmia		Cattle Mice	L22 K24 K34 K35 R7
Congenital microphthalmia and coloboma		Dogs	G9 G11
Diabetic keratopathy		Mice	H65
Diabetic retinopathy		Several species	S56
Extraocular muscle dystrophy		Mice	P1
Focal retinal dysplasia		Dogs	S11
Glaucoma		Dogs	G7
Hemeralopia		Dogs	A12 R29

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
EYE (CONT.)			
Herpes keratitis		Subhuman primates, rabbits	S53
Heterochromia irides		Rats Swine	M2 G10
Keratoconjunctivitis sicca	Sjogren's syndrome	Mice	K20
Lenticonus		Dogs	A7
Maculopathy		Subhuman primates	T24
Multiple ocular defects and cerebellar hypoplasia		Cattle	K2
Myopia		Subhuman primates	Y15
Neurological strabismus		Cats Cats, white tigers (R) White tigers (R)	G48 K4 G47 G49
Ocular colobomas		Cats	B25
Ocular tumors		Cattle Many species	A17 M64
Persistent pupillary membrane		Basenji dogs Subhuman primates	B12 K27
PRA	Retinitis pigmentosa	Dogs	A8 A9 A10 A11 B10 B11 B39 K15 P45

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
EYE (CONT.)			
Retinal atrophy		Mice	N3
Retinal degeneration		Mice	B47 K13 N2
		Rats	S3 V20
Retinal detachment		Subhuman primates	A1
Retinal dysplasia		Cattle	B38 W5
		Dogs	R27
		Mice	C1
Retinal dysplasia and hydrocephalus		Cattle	G35 L21 L25
Retinal dystrophy		Mice	K14
		Rats	H36 H37 Y9
Retinal idiopathic atrophy		Cats	R33
HEMATOPOIETIC SYSTEM			
Acatalasemia		Mice	F7
Anemia--hemolytic		Dogs	F18 R14 T9
		Mice	H73
		Rodents	E2
		Subhuman primates	H25
Anemia--hypochromic microcytic		Rats	S49
Anemia with neoplasia		Chickens	C10

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
HEMATOPOIETIC SYSTEM (CONT.)			
Autoimmune hemolytic disease		Mice	L45
B-cell maturation		Mice	A18
Chediak-Higashi syndrome		Mice	E13 O8
		Mice, mink, cattle, cats	P49
		Mink, cattle, mice	B49 P5
Coagulation defects		Dogs, horses, swine	M69
		Dogs	S70
Factor VII deficiency		Dogs	S59 S60
Factor VIII deficiency		Dogs	D32
Factor IX deficiency		Dogs	D32
Factor X deficiency		Dogs	D19
Factor XI deficiency		Dogs, cattle	D20
von Willebrand's disease		Dogs Swine	D18 B65 G42 O19
Hereditary defect in platelet (def. ATP, 5HT, and Ca)		Rats	T23
Congenital aplasia of the thymus		Mice	D12 P51
Erythrocyte pyruvate kinase deficiency		Dogs	S24
Cyclic neutropenia		Dogs	A5 C14 F22

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
HEMATOPOIETIC SYSTEM (CONT.)			
			J17 L13 L51 L52 L53
Erythropoietin in erythropoiesis		Mice	B18
Familial bovine polycythemia	Polycythemia	Cattle	T12
Hemolytic disease of the newborn		Swine	L44
Intraerythrocytic crystalloid bodies	Hemoglobin C disease	Cats	A15
Leukemia		Cats Chickens Dogs Guinea pigs Mice Rabbits Rats Subhuman primates	C39 P37 S38 T13 E8 K40 M43 R26 S48 M38 H50 M58 M59 R18 R24 L7
Lymphoma, malignant lymphoma, lymphosarcoma		Cats Cattle Cattle, sheep, horses, swine Chickens Dogs	H11 O20 S19 S62 C48 M49 P53 C29 J11

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES [†]	REFERENCE
HEMATOPOIETIC SYSTEM (CONT.)			
		Mice	G5 S21
		Quail	N7
		Rabbits	F30 H45
		Subhuman primates	E11 H69 H70 K11 K12 M6 S75 T14
		Swine	H26 M37
Malaria		Subhuman primates (R)	H33 Y16
Microangiopathic anemia	Kasabach-Merritt syndrome	Mice	H48
Polycythemia vera		Dogs	M31
Pyruvate kinase deficiency		Dogs	S64
Red cell glutathione deficiency		Sheep	T26 T27
MUSCULOSKELETAL SYSTEM			
Ameloblastic odontoma (congenital)		Horses	L43
Arthrogyrosis		Cattle	L17
Articular chondro- calcinosis		Rabbits	Y13
Atlantoaxial subluxation		Dogs	P7
Bone tumor		Mice	F32

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
MUSCULOSKELETAL SYSTEM (CONT.)			
Brachygnathia-- trisomy		Cattle	H39
Brachypodism		Mice	G45
Cheiloschisis, cheilognathopalatoschisis, brachygnathia		Swine, cattle, dogs	L1
Chronic osteomyelitis		Rabbits	A20
Cleft palate		Cattle Dogs	S40 H59 J23
Cleft palate, cleft lip		Dogs	S37
Congenital atlantooccipital joint defect		Cattle	L26
Congenital odontoid process separation		Dogs	L2
Degenerative arthropathy (hip dysplasia)	Hip dysplasia	Cattle	H63
Degenerative joint disease (hip dysplasia)	Degenerative joint disease (osteoarthritis)	Dogs	L55
Developmental hip disease (dysplasia)		Dogs	P48
Disproportionate dwarfing		Mice	L5
Dysraphism		Subhuman primates, mice	P4
Ectrodactyly		Subhuman primates	M65

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
MUSCULOSKELETAL SYSTEM (CONT.)			
Erysipelothrix arthritis	Rheumatoid arthritis	Swine	D24
Hereditary osteopetrosis		Cattle	L24
Hereditary syndactylism		Cattle	L14
Hydromelia, syringomelia		Cats	L23
Hypertrophic osteoarthropathy		Dogs	B62
Kyphoscoliosis		Mice	D15
Lateral patellar luxation		Horses	L4
Multiple cartilaginous exostoses		Dogs	C13
Multiple epiphyseal dysplasia		Dogs	R4 R5
Myasthenia gravis		Dogs	F33 L47
Myopathy		Chickens	C4 J22 M35 S33 W2
		Dogs	W17
		Guinea pigs	W11
		Hamsters	H15 M61
		Mice	G18 H14 H16 J1 M60 P2 S63 T10

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
MUSCULOSKELETAL SYSTEM (CONT.)			
		Mink	H8 H27
		Sheep	M26 M27
		Turkey	S83
Osteitis deformans	Paget's disease	Subhuman primates	H66
Osteoarthrosis		Dogs	O9
Osteoarthritis and polyarthritiis		Mice, rats, hamsters, guinea pigs	A14
Osteomyelitis		Subhuman primates	P6
Osteopetrosis		Cattle	G37 L20
		Rats	M9
Osteosarcoma		Dogs	T15
Patellar ectopia		Horses	F11
Pectus excavatum		Dogs	P21
Polyarthritiis	Rheumatoid arthritis	Dogs	L36
Polydactyly		Cattle	L19
Polyostotic fibrous dysplasia		Dogs	C6
Polysyndactyly		Mice	J6
Rheumatoid arthritis		Swine	A13
Sacroccocygeal agenesis	Spinal dysraphism	Cats	J2
Spina bifida		Cats	M12
Spina bifida, sacral dysgenesis, and myelocele		Cats	K28

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
MUSCULOSKELETAL SYSTEM (CONT.)			
Spinal dysraphism		Cattle	L16
Tibial dyschondroplasia	Ollier's disease, metaphyseal dysostosis, metaphyseal dysplasia	Turkeys	S42
Umbilical hernia		Cattle	A23
Vertebral osteophyte formation		Rats	G24
Weaver syndrome	Muscular dystrophy	Cattle	L15
NERVOUS SYSTEM			
Abnormal visual pathways		Mink	S6
Aging		Deer, cats, dogs, mice	D6
Anencephaly		Subhuman primates	P44
Audiogenic seizure		Mice	W38
Autosomal trisomy	Down's syndrome	Subhuman primates	M22 M23
Bluetongue virus infection	CNS malformations	Sheep	O17
Cerebellar hypoplasia		Cattle	K2
Ceroid lipofuscinosis	Aging	Cats Dogs Mink, cattle, mice	G34 K37 P8 Z1 H46 O3 S81
Coonhound paralysis	Idiopathic polyneuritis	Dogs	C47

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
NERVOUS SYSTEM (CONT.)			
Distemper	Landry-Guillain-Barré syndrome	Dogs	W33
Dystonia musculorum		Mice	J4
Epilepsy		Chickens Dogs Mice Rabbits Subhuman primates	C41 B36 C43 V5 W6 H52 R17
Hereditary ataxia		Dogs Rabbits	H18 E7
Hereditary neuro-axonal dystrophy	Infantile neuroaxonal dystrophy	Cats	W36
Hydrocephalus		Cats Hamsters Mice	S43 Y12 B56 R2 T8
Hydranencephaly		Cattle	R15
Juvenile amaurotic familial idiocy		Dogs	K36
Lafora's disease		Dogs	H53 H54
Leaner mice	Cerebellar ataxia	Mice	Y11
Leaner mice, tottering mouse	Neuromuscular disorder	Mice	T25
Leukodystrophy		Mice	B20 B29 D5 F3 G2 G40 H38

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
NERVOUS SYSTEM (CONT.)			
		Mice	H51 J20 K9 K39 M40 S4 S45 T18 W10 W32
		Swine	B43 B44 H10 P16 P17
Lipidoses			
Gaucher's disease		Dogs	H19
Globoid cell leukodystrophy		Dogs	B45 F19 F20 R25 S84
GM ₁ gangliosidosis		Cats	B6 B7 F5
		Cattle	D22 D23
GM ₂ gangliosidosis		Dogs	K10
Neuronal lipo- dystrophy	Neurovisceral storage disease, late in- fantile amaurotic idiocy, Tay-Sachs disease	Cattle	R6
Niemann-Pick disease		Cats	P22
Niemann-Pick, type C		Mice	A4
Mannosidosis		Cattle	J12 N10 P25

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
NERVOUS SYSTEM (CONT.)			
Neoplasms of central nervous system		Rats	F14 M19
Neurological strabismus		Cats Cats, white tigers (R) White tigers (R)	K4 G47 G49
Neuronal abiotrophy	Infantile spinal muscular atrophy	Dogs	S5
Neuroschisis		Cats	L23
Nuclear jaundice	Kernicterus	Cats	T20
Primary amebic meningoencephalitis		Mice	M14
Retinal dysplasia		Cattle	B38
Retinal dysplasia and hydrocephalus		Cattle	G35
Retinal dysplasia and internal hydrocephalus		Cattle	L21 L25
Scrapie (sheep) and encephalopathy (mink)	Kuru; Creutzfeldt-Jacob disease; aging, senile dementia; Alzheimer's disease	Mink, sheep, subhuman primates	G1
Spina bifida		Cats	F8
	Arnold-Chiari malformation	Cattle	G46
Toxoplasmosis-induced fetal pathology		Sheep	B34
Transmissible mink encephalopathy	Kuru; Creutzfeldt-Jacob disease	Mink	M11
Tremors	Infantile tremors	Cats	N9

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
NERVOUS SYSTEM (CONT.)			
Weaver mouse	Cerebellar ataxia	Mice	R13
Wobbler mouse	Hereditary neuro-muscular disease	Mice	D25
REPRODUCTIVE SYSTEM AND CHROMOSOMAL ABERRATIONS			
Abnormalities of intrauterine development		Subhuman primates	W28
Age-related uterine lesions		Mice	M5
Endometriosis		Subhuman primates	M21
Chimaerism		Cats Cattle	G41 B16 M7
Chromosome abnormalities		Dogs	H12
Congenital or hereditary cervical anomalies	Genital anomalies	Cattle	A3
Cryptorchism		Horses Sheep Swine	B30 C24 F34
Cystic ovaries		Gerbils	N14
Genital abnormalities		Swine	E4
Genital malformation		Goats	L56
Gonadal hypoplasia		Cattle Rabbits	L10 L54 F26
Hermaphrodite		Cattle Mice	D28 L57

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
REPRODUCTIVE SYSTEM AND CHROMOSOMAL ABERRATIONS (CONT.)			
Hypospadias		Goats	B8
Intersex		Cattle	K21
		Dogs	S68
		Goats	B15
		Horses	G13
			G25
		Swine	B2
			M42
			M55
			M56
		S39	
		V2	
Mosaicism		Cattle	K8
Mosaicism and chimaerism		Cattle	J21
Ovarian bursa and oviduct abnormalities	Oviduct abnormalities	Cattle	S35
Ovarian tumors		Dogs	N13
		Mice	M30
Pregnancy toxemia		Rabbits	W7
Prostatic adenocarcinoma		Rats	P35
Pseudohermaphrodite cryptorchidism		Sheep	B68
Schistosomiasis	VRO-genital schistosomiasis	Subhuman primates (R)	W12
Small birth weight	Full-term small baby	Rats	A6
Sex anomalies		Swine	B17
Testicular feminization		Mice	L58
			O1
		Sheep, mice	O10

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
REPRODUCTIVE SYSTEM AND CHROMOSOMAL ABERRATIONS (CONT.)			
Testicular and seminal vesical tumors		Rats	S54
Testicular tumor		Rats	V6
Trisomy		Mice	G44
Twinning		Subhuman primates	W27
Uterine neoplasia		Rabbits	B1
Uterine tumors		Mice	D4
XXY chromosome abnormalities	Klinefelter's syndrome	Cats	C9 J19
		Sheep	B66 B67 K22
XY/XXY mosaicism		Cats	L48
RESPIRATORY SYSTEM			
Allergic alveolitis		Cattle	P28
Bacterial pneumonia		Subhuman primates	G28
Diffuse fibrosing alveolitis		Cattle	P30
Emphysema	Chronic bronchitis	Cattle Horses	E10 G19 G20 T31
Hypersensitivity pneumonitis		Cattle, horses	W18
Influenza		Subhuman primates	J5

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
RESPIRATORY SYSTEM (CONT.)			
Lung injury		Subhuman primates	W35
Pulmonary alveolitis		Rats, cattle, rabbits	J7
Respiratory distress syndrome		Cattle	P29
Tuberculosis		Subhuman primates	G27 M62
SKIN AND ADNEXA			
Acantholysis		Cattle	J13
Albinism		Cattle	G36
Baldness		Subhuman primates	T3
Black hair follicular dysplasia	Derangement of neural crest derivatives	Dogs	S30
Congenital melanoma		Cattle	S46
Dermatosparaxis	Ehlers-Danlos syn- drome, procollagen- peptidase deficiency	Cattle	H9 L28 S44 T16 W29
Distichiasis		Dogs	L11
Ehlers-Danlos syndrome		Dogs Dogs, mink	G17 H28 H29 H30
Fragile skin	Ehlers-Danlos syndrome Fragile skin	Sheep Sheep	F15 H34
Harding-Passey melanoma		Mice	L27

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
RESPIRATORY SYSTEM (CONT.)			
Herpesvirus infection	Varicella	Subhuman primates	B42
Hydratic ectodermal dysplasia		Dogs Mice	S31 T11
Leprosy		Armadillos Cats Cats, rats Swine	C31 S12 K26 W24
Male tricolor cats	Klinefelter's syndrome	Cats	L48
Measles		Subhuman primates	H5
Melanotic lesions	Melanin metabolism, melanoma	Swine	F17
URINARY SYSTEM			
Aminonucleasidic nephrosis	Lipoid nephrosis	Rats	A28
Cortical renal cysts		Rabbits	F27
Diabetic glomerulosclerosis		Dogs, hamsters	D17
Diffuse fibrosing alveolitis		Cattle	P30
Familial renal disease	Fanconi's syndrome (cystinosis)	Dogs	F10
Glomerulonephritis	Systemic lupus glomerulonephritis	Rats	V15
Glomerulonephritis--chronic viral		Swine	C15
Glomerulonephritis--immune-complex		Subhuman primates	P38

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
URINARY SYSTEM (CONT.)			
Glomerulonephritis-- mesangiocapillary		Sheep	A21 A22
Glomerulonephritis-- viral		Mice	M45
Glomerulosclerosis		Rats	A32 E6
Hydronephrosis		Mice Rats	W8 C28 L49
Inherited renal cysts	Polycystic disease (mature form)	Rats	S55
Nephronophthisis		Mice	L59
Nephrosclerosis		Guinea pigs	T4
Polycystic renal disease		Hamsters	G21
Pyelonephritis		Subhuman primates	R20
Renal cortical hypoplasia		Dogs	J9
Urolithiasis		Rats	M4
CANCER RESEARCH			
Cancer		Dogs, cats	G4
Chemodectomas		Dogs	H24
Hepatoblastoma		Mice	T30
Lung tumors		Subhuman primates, rodents	S10
Lymphosarcoma		Cats	H11

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
CANCER RESEARCH (CONT.)			
Mammary adeno- carcinoma		Mice	S69
Mammary cancer		Cats	H22 S76
		Dogs	S18
		Mice	B26 H31 H41 L8 M17 R16 S14 S57 S61 T5 V14 V19
Melanoma		Horses	L30
		Mice	B71
		Swine	M50 M51
Neoplasia		Cattle, swine, dogs, cats	A27
		Dogs, cats, cattle, horses	P47
		Mice	S51 W15
		Rats	M1
Neoplasms		Mice	G6
NZB mice	Systemic lupus erythematosus, neoplasia	Mice	M44
Renal adenocarcinoma		Frogs	G30 G31 M34
Reticulum cell tumors	Hodgkin's disease	Mice	L3

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
CANCER RESEARCH (CONT.)			
Rhabdomyosarcoma		Dogs	K17
Squamous cell carcinoma	Ocular neoplasm	Cattle	A17
Susceptibility to cancer	Cancer	Rabbits	F29
Teratocarcinoma	Cancer	Mice	P26
Teratoma		Mice Mice, rabbits	S67 M41
Thymic tumors		Cattle, sheep, pigs	S7
Tumors		Chickens, cats, cattle, rabbits Mice Rats, mice Subhuman primates	A26 H55 P43 C3
Viral oncogenesis		Guinea pigs, chickens	H64
IMMUNE-ALLERGIC DISEASES			
Asthma		Guinea pigs, dogs, subhuman primates	P19
Atopy--reaginic allergy		Dogs (R)	H7 P18
Autoimmunity and aging		Mice	P23
Combined immuno-deficiency		Horses (R)	M32 M33
Emphysema		Horses	G19

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
IMMUNE-ALLERGIC DISEASES (CONT.)			
Hereditary immuno- deficiency		Mice	D31 H32
Hypersensitivity pneumonitis		Cattle, horses	W18
Immunodeficiency and hypopituitarism		Mice	F1
Keratoconjunctivitis sicca	Sjorgren's syndrome	Mice	K20
NZB mice	Systemic lupus erythematosus	Mice	E1 H2 L34 M44 P39 S65
Nude mice	DiGeorge's syndrome	Mice	M67 W37
Persistent viral infections		Mink	H35
Primary immuno- deficiency (cell- mediated)		Cattle	B69
Pulmonary alveolitis		Rats, cattle, rabbits	J7
Systemic lupus erythematosus		Dogs	L33 L37 L38
Thyroiditis		Chickens	W23
METABOLIC DISEASES			
Alcoholism		Rats	B61
Amyloidosis		Ducks Hamsters	C40 G22

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
METABOLIC DISEASES (CONT.)			
		Mice	A19 C38
Catalase deficiency		Mice	C45
Cerebral senile plaques		Dogs	W31
Cystinuria		Dogs	B58 T21 T22
Diabetic keratopathy		Mice	H65
Diabetic retinopathy		Several species	S56
Erythropoietic porphyria	Porphyria	Cattle Fox squirrels	K16 Z3 L31 L32
Foam cell reticulosis	Niemann-Pick disease	Mice	F35
Galactosemia		Kangaroos	S66
Globoid cell leukodystrophy		Dogs	S85
Histidinemia		Mice	K1
Hyperprolinemia		Mice	B40 B41
Lysozyme deficiency		Rabbits	P50
Mannosidosis		Cattle	H49
Obesity		Rats Sand rats Swine	B14 O15 R22 R23 M13
Obesity--genetic		Mice Rats, mice	J10 B59

ANIMAL MODEL	HUMAN COUNTERPART*	SPECIES†	REFERENCE
METABOLIC DISEASES (CONT.)			
Porphyria		Cats	G23
TERATOLOGY			
Agnathia		Sheep	D11
Brachypodism	Achondroplasia	Mice	P34
Chondrodystrophy		Mice	S25
Cleft palate		Mice	B57
Cleft palate and lip		Mice	K7
Conjoined twinning		Swine	S28
Congenital microphthalmia		Mice	K24 K34 K35
Congenital splenic defects		Sheep	D9
Tracheal stenosis		Dogs	S82
Viral-induced fetal anomalies		Swine	J8
MISCELLANEOUS			
Genetics/mutants		Hamsters Horses	N8 P52
Hereditary disease		Dogs	B24
Hyperthermia		Swine	J16
Immunology		Subhuman primates	G27
Infant mortality	Sudden infant death syndrome	Subhuman primates	F36

PART TWO:
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