

SCIENTIFUR
ISSN 0105-2403
Vol. 24, No. 1
February, 2000



1.	Contents	1
2.	Notes	7
3.	Reviewed reports	
	Glucose homeostasis in mink (<i>Mustela vison</i>). A review based on interspecies comparisons. Christian Friis Børsting and Anette Gade. Code 3-6-M.	9
	Estimating protein synthesis by measuring the amounts of active translational elongation factor-2 in tissue samples from mink. Bent Riis. Code 3-2-M.	19
4.	Multidisciplinary	
	Morphology and Morphometry of Skulls of Raccoon Dogs, <i>Nyctereutes procyonoides</i> and Badgers, <i>Meles meles</i>. Sachinobu Hidaka, Mitsuharu Matsumoto, Hiromi Hiji, Seiichiroh Ohsako, Hayao Nishinakagawa. Code 2-O.	25
	Diet of two species of mink in Estonia: displacement of <i>Mustela lutreola</i> by <i>M. vison</i>. T. Maran, H. Kruuk, D. W. Macdonald, M. Polma. Code 1-4-6-11-M.	25
	Subacute and Reproductive Effects in Mink from Exposure to <i>Fusarium fuikuroi</i> Culture Material (M-1214) Containing Known Concentrations of Moniliformin. M.K. Morgan, S.J. Bursian, G.E. Rottinghaus, G.A. Bennett, J.A. Render, R.J. Aulerich. Code 3-6-9-M.	26
	Polychlorinated biphenyl (PCB) exposure produces placental vascular and trophoblastic lesions in the mink (<i>Mustela vison</i>): a light and electron microscopic study. Britt-Marie Bäcklin, Elisabeth Persson, Carolyn J.P. Jones,	

<i>Vibeke Dantzer. Code 2-3-5-8-M.</i>	27
Reproductive effects in mink (<i>Mustela vison</i>) exposed to the pesticides Lindane, Carbofuran and Pentachlorophenol in a multigeneration study. <i>A. P. Beard, N. C. Rawlings. Code 3-5-8-M.</i>	27
Serum prolactin and dehydroepiandrosterone concentrations during the summer and winter hair growth cycles of mink (<i>Mustela vison</i>). <i>Jack Rose, Michael Kennedy, Brad Johnston, Wade Foster. Code 2-3-M.</i>	28
The cyclic nucleotide - IGF-1 system as a possible link between nutrition and reproduction in domestic nutria. <i>D. Mertin, A.V. Sirotkin, K. Süvegova, A.V. Makarevich, H.-G. Genieser, M.R. Luck, L.V. Osadchuk. Code 3-5-6-O.</i>	29
Skull and tooth morphology of Finnish and Japanese raccoon dogs. <i>Kaarina Kauhala, Suvi Viranta, Mayumi Kishimoto, Eero Helle, Iwao Obara. Code 1-2-6-10-O .</i>	29
Asymptotic body weight and maturation rate in nutria (<i>Myocastor coypus</i>). <i>E.P. Spiaggi, M.I. Mansilla, R.J. Di Masso. Code 2-O.</i>	30
Census of breeding females in 1998. <i>P. Clausen. Code 13-M-F-O.</i>	30
5. Nutrition & Nutritional Physiology	
Feed intoxication in chinchilla induced by bacillus cereus enterotoxin. <i>Danuta Czernomysy-Furowicz, Antoni J. Furowicz, Anna Peruzynska. Original Report. Code 6-8-9-O.</i>	31
Analysis of some commercial indices of polar foxes fed on diets containing ERAFET. <i>Manfred O. Lorek, Andrzej Gugolek. Code 2-6-7-F.</i>	37
Nutrient digestibility and nitrogen retention in mink fed diets containing whey-fat concentrate. <i>Manfred O. Lorek, Andrzej Gugolek. Code 3-6-7-M.</i>	37
Nutrient digestibility and nitrogen retention in polar foxes fed diets containing whey-fat concentrate. <i>Manfred O. Lorek, Andrzej Gugolek, Maciej Grzechnik. Code 3-6-7-F.</i>	37
Nutrient digestibility and nitrogen retention in polar foxes fed diets containing ERAFET. <i>Manfred O. Lorek, Andrzej Gugolek, Maciej Grzechnik. Code 3-6-7-F.</i>	37
Blood and poultry waste as a valuable feed material for blue foxes. <i>Jan Zajac, Stanislaw Niedzwiadek, Pawel Bielanski, Andrzej Zon. Code 6-7-F.</i>	38
Summer feed composition and feed niche overlap of the raccoon dog, red fox and badger in Finland. <i>Kaarina Kauhala, Paula Laukkane, Inez von Rége. Code 1-6-10-11-F-O.</i>	38
Effects of pantothenic acid derivates on welfare and production-related variables in blue foxes. <i>Hannu Korhonen, P. Niemelä. Code 2-3-6-11-F.</i>	39
Restricted feeding of blue foxes (<i>Alopex lagopus</i>) prior to reproduction.	

	<i>Andrzej Zon, S. Niedzwiadek, P. Bielanski, J. Zajac. Code 5-6-12-F.</i>	39
	Experimental Lead Toxicosis of Raccoons (<i>Procyon lotor</i>). <i>A.N. Hamir, B. Lehmann, N. Raju, J.G. Ebel, K.L. Manzell, C.E. Rupprecht. Code 8-O.</i>	40
	Fatty acid alterations caused by PCBs (Aroclor 1242) and copper in adipose tissue around lymph nodes of mink. <i>R. Käkälä, H. Hyvärinen. Code 3-6-8-9-M.</i>	40
6.	Ethology, incl. Animal Welfare, Management & Production	
	Time allocation of male and female raccoon dogs to pup rearing at the den. <i>Kaarina Kauhala, Eero Helle, Helena Pietilä. Code 11-5-10-O.</i>	41
	Effect of prenatal stress on the gonadal and adrenal steroidogenesis in the neonatal blue fox (<i>Alopex lagopus</i>). <i>L.V. Osadchuk, B.O. Braastad, M. Bakken. Code 3-10-11-12-F.</i>	41
	Welfare – an important factor in animal farming. <i>Stanislaw Niedzwiadek, Pawel Bielanski, Jan Zajac, Andrzej Zon. Code 10-11-12-14-M-F-O.</i>	42
	Use of sheltered drinking troughs for mink females in the autumn produces good pelts. <i>J. Hansen. Code 10-11-2-12-M.</i>	42
7.	Genetics & Breeding	
	The incidence of the fur coat defect "divided cover" in fur animals of the family Canidae. <i>Grazyna Jezewska, Andrzej Jakubczak, Grzegorz Niezgoda-Code 2-4-F.</i>	43
	Cloning and characterization of the CDNA encoding the PH20 protein in the European red fox <i>Vulpes vulpes</i>. <i>José ten Have, Sandra Beaton, Mark P. Bradley. Code 3-4-F.</i>	43
	Genetic background of the colour types in silver fox (<i>Vulpes vulpes</i>) and arctic fox (<i>Alopex lagopus</i>). A review. <i>H. Wierzbicki. Code 4-F.</i>	43
	Genetic parameters of conformation and coat traits in fox (<i>Vulpes vulpes</i>) population. <i>Andrzej Filistowicz, Heliodor Wierzbicki, Irena Zwolinska-Bartczak, Boleslaw Zuk. Code 2-4-F.</i>	43
	Mutations provide a natural method of creating variation. <i>Outi Lohi, Niels Therkildsen. Code 2-4-F.</i>	44
	Nordic unity regarding future cooperation in breeding (furbearing animals) <i>Janne Hansen. Code 4-14-M-F-O.</i>	44
8.	Reproduction	
	Ex-situ preservation of Mustelidae : primer of application of genetic resource	

bank concept with the use of polecats as the model species. *S. Amstislavsky, H. Lindeberg, M. Jarvinen, H. Kizilova, G. Zudova, Yu. Ternovskaya, M. Valtonen. Original Report. Code 3-4-5-M-O.* 45

Folliculogenesis, onset of puberty and fecundity of mink (*Mustela vison* Schreb.) selectively bred for docility or aggressiveness. *D.V. Klotchkov, O.V. Trapezov, A.V. Kharlamova. Code 2-4-5-11-F.* 59

A comparative study of sperm, sexual hormone concentrations and sexual activity in yearling and adult males of the silver fox (*Vulpes vulpes*). *L. V. Osadchuk. Code 3-5-F.* 59

Activity of *Chinchilla laniger* spermatozoa collected by electroejaculation and cryopreserved. *A.A. Ponce, R.E. Carrascosa, V.A. Aires, M. Fiol de Cuneo, R.D. Ruiz, M.F. Ponzio, J.L. Lacuara. Code 3-5-O.* 60

Successful embryo transfer in the silver fox (*Vulpes vulpes*). *L. Jalkanen, H. Lindeberg. Code 3-5-F.* 60

9. Pathology & Diseases

Responses of red foxes to first and second infection with *sarcoptes scabiei* *Susan E. Little, William R. Davidson, Pauline M. Rakich, Tammy L. Nixon, Denise I. Bounos, Victor F. Nettles. Code 9-F.* 61

Study of microflora of gastrointestinal tract of mink kept in the zone of the Chernobyl NPP and outside it. *V.I. Sudenko, L.I. Groma, V.S. Podgorsky. Code 9-10-14-M.* 61

Antagonistic properties of bacteria isolated from the digestive tract of female mink in the Chernobyl NPP zone. *V.I. Sudenko, L.I. Groma, V.S. Podgorsky. Code 9-10-14-M.* 62

Antagonistic properties of microaerophilic bacteria isolated from the digestive tract of a man and a mink. *V.I. Sudenko, L.I. Groma, V.S. Podgorsky. Code 9-10-14-M-O.* 62

Diabetes mellitus in rabbits, guinea-pigs, and chinchillas. *A. Ewringmann, T. Göbel. Code 9-3-6-O.* 63

Aleutian mink disease parvovirus infection of K562 cells is antibody-dependent and is mediated via an Fc(gamma)RII receptor. *L.J. Dworak, J.B. Wolfenbarger, M.E. Bloom. Code 9-M.* 63

Organophosphorus-Induced Neurotoxicity in the Absence of Neuropathy Target Esterase Inhibition: The Effects of Triphenyl Phosphine in the European Ferret. *Stephanie L. Davis, Duke Tanaka, Jr., Richard J. Aulerich, Steven J. Bursian. Code 3-6-0-O.* 64

Toxic Effects to Mink of Moniliformin Extracted from *Fusarium fujikuroi* Culture Material. *M.K. Morgan, S.D. Fitzgerald, G.E. Rottinghaus, S.J. Bursian, R.J. Aulerich. Code 9-8-M.* 64

10.	Fur properties	
	Pelage Cycle in Blue Fox (<i>Alopex lagopus</i>): A Comparison Between Animals Born Early and Late in the Season. <i>Leena Blomstedt. Code 2-4-12-O.</i>	65
	Changes in hair cover of polecats during domestication. <i>Bogusław Barabasz, Malgorzata Piorkowska. Code 2-F.</i>	66
11.	NJF-Seminar no. 308, 1999	
	Nutrition and Health in Mink. <i>Bert Urlings. Code 6-7-9-14-M.</i>	68
	Effect on litter size of different feeding levels for female mink during the winter. <i>Steen H. Møller. Code 5-6-12-14-M.</i>	68
	The effect of feed composition on the acidity of urine in mink kits. <i>Tove N. Clausen. Code 3-5-M.</i>	68
	Meat-and-bone meal and slaughterhouse by-products as feed ingredient for fur animals. <i>Øystein Ahlstrøm, Anders Skrede. Code 6-7-2-M-F.</i>	69
	Mink milk composition important for optimal development of mink kits; determination of amounts and structures of individual components. <i>C. Bjerregaard, S. Buskov, T.N. Clausen, K. Mortensen, C.E. Olsen, H. Sørensen, J.C. Sørensen, S. Sørensen. Code 3-4-5-6-M.</i>	69
	Different protein concentrations in feed for mink kits. Nitrogen-, energy-, water-, and mineral balance during growth period. <i>Einar E. Einarsson, Niels Enggaard Hansen. Code 3-6-M.</i>	70
	Household waste as ingredient in feed for blue fox and mink in the reproduction period. <i>Øystein Ahlstrøm, Ole Sylte Heggset. Code 4-6-7-M-F.</i>	71
	Low dosis of cortisol affects the development of the gastro-intestinal tract in mink kits. <i>J. Elnif, R.K. Buddington, P.T. Sangild, N.E. Hansen. Code 3-2-4-M.</i>	71
	Observations on thermoregulatory ontogeny of mink. <i>Kirsti Rouwinen-Watt, Mikko Harri. Code 3-14-M.</i>	72
	Differences in nourishment content in Scandinavian fur animal feed (Swedish fur and feed compared with other Nordic countries). <i>Eva Aldén. Code 6-13-14-M-F.</i>	73
	Effect of feed phosphorus level on phosphorus excretion – a balance experiment with growing blue foxes. <i>Jarmo Valaja, Ilpo Pölönen, Sini Perttilä, Taina Jalava. Code 3-6-F.</i>	73

Behaviour, physiology and production in alternative housed adult female mink. <i>Vivi Pedersen, Leif Lau Jeppesen. Code 10-11-12-14-M.</i>	74
Does access to water for swimming change the behaviour and reproduction in adult farm mink? <i>Claus Peter Bjælke Hansen. Code 10-11-12-M.</i>	74
Action plan for mink farming in the Netherlands. <i>Frans Kleyn van Willingen. Code 10-11-12-14-M.</i>	75
Tangled fur coat in blue fox. <i>Leena Blomsted. Code 2-F.</i>	75
Selection for confident behaviour increases welfare and fertility in blue foxes <i>Hilkka Kenttämies. Code 4-11-5-F.</i>	76
Effects of dietary protein and carbohydrate level on glucose metabolism in lactating mink (<i>Mustela vison</i>). <i>Rikke Fink, Christian F. Børsting, Birthe M. Damgaard. Code 3-6-M.</i>	76
Protein synthesis translation elongation factor-2 content in skin, muscle and liver tissue in mink during development. <i>Bent Riis. Code 2-3-M.</i>	77
Captive breeding of the American pine marten (<i>Martes americana</i>). <i>Kirsti Rouvinen-Watt, Cheryle MacRae, Dian Patterson, Merridy Rankin, Judy Grant. Code 1-4-12-14-O.</i>	78
Development of a microsatellite linkage map for the blue foxes. <i>Hilppa Hietanen, Jaana Tähtinen, Matti Ojala, Minna Rintamäki, Paavo Niemelä. Code 3-4-F.</i>	78
Confidence and aggressiveness can be reliably tested in silver fox cubs. <i>Hilkka Kenttämies, Maija Miettinen. Code 4-11-12-14-F.</i>	79
Development in fur animal breeding allowed but not with melatonin. <i>Maija Valtonen. Code 2-3-12-M-F-O.</i>	79
12. List of addresses	81