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Farm Animal Welfare and Research Projects in Canada (to January 2008)

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Project title/Description	Location	Contact*
1. Transportation		
Reducing the physiological insult of transport stress in beef cattle by the administration of synthetic corticosteroids prior to transport	AAFC, Lacombe, AB	Dr. N. Cook nigel.cook@gov.ab.ca
Epidemiological studies of welfare aspects of the transportation of animals for slaughter in Canada	AVC, UPEI	Dr. M. Cockram mcockram@upe.ca
Engineering, animal welfare and meat quality considerations of broiler transportation in a heated and ventilated vehicle	U of Saskatchewan, SK	Dr. H. Classen hank.classen@usask.ca Dr. T. Crowe trever.crowe@usask.ca
Effects of handling procedures and transport vehicle design on the welfare and meat quality of pigs	Prairie Swine Centre, U of Saskatchewan, SK U of Saskatchewan, SK AAFC, Lennoxville, QU AAFC, Lennoxville, QU U of Guelph, ON U of Manitoba, MB	Dr. H. Gonyou harold.gonyou@usask.ca Dr. T. Crowe trever.crowe@usask.ca Dr. L. Faucitano faucitano1@agr.gc.ca Dr. S. Torrey torreys@agr.gc.ca Dr. T. Widowski twidowsk@uoguelph.ca Dr. R. Bergeron rbergeron@alfredc.uoguelph.ca Dr. C. Dewey cdewey@ovc.uoguelph.ca Dr. N. Lewis nora_lewis@umanitoba.ca
Transportation of early weaned piglets	U of Manitoba, MB	Dr. N. Lewis nora_lewis@umanitoba.ca
The effect of transportation dynamics on cattle welfare, performance and beef quality	U of Guelph, ON	Dr. I. Mandel imandell@uoguelph.ca Dr. Ken Bateman kbateman@ovc.uoguelph.ca
The Welfare of Pigs during Transport: The scientific background of current Canadian and international	AAFC, Lacombe, AB AFNS, University of Alberta, AB	Dr. A. Schaefer schaefera@agr.gc.ca Dr. C. Bench clover.bench@ualberta.ca

loading density and journey duration welfare standards		
The impact of handling and transport on stress, carcass yield and meat quality in bison	AAFC, Lacombe, AB AFNS, University of Alberta, AB	Dr. A. Schaefer schaefera@agr.gc.ca Dr. C. Bench clover.bench@ualberta.ca
2. Pain		
The effect of meloxicam (Metacam®) as an adjunct treatment for the reduction of pain at dehorning in neonatal dairy calves	OVC, U of Guelph, ON	Dr. T. Duffield tduffiel@ovc.uoguelph.ca
Improving welfare for beak trimmed hens through reducing variability and technology transfer	U of Saskatchewan, SK	Dr. H. Classen hank.classen@usask.ca
Investigations into the impact and reduction of periparturient pain in dairy cattle	OVC, U of Guelph, ON	Dr. K. Leslie keleslie@ovc.uoguelph.ca
Dehorning pain in calves	OVC, U of Guelph, ON	Dr. S. Millman smillman@ovc.uoguelph.ca
Sickness behaviour in swine	OVC, U of Guelph, ON	Dr. S. Millman smillman@ovc.uoguelph.ca
Improved on-farm detection and treatment of lameness in dairy cattle	AAFC, Agassiz, BC	Dr. J. Rushen rushenj@agr.gc.ca Dr. A.M. de Passille depassilleam@agr.gc.ca
Automated detection of lameness in dairy herds as a basis for auditable animal welfare standards	AAFC, Agassiz, BC	Dr. J. Rushen rushenj@agr.gc.ca Dr. A.M. de Passille depassilleam@agr.gc.ca
Analgesics in fish: Pharmacokinetics, pharmacodynamics and efficacy of various potential analgesics in fish	AVC, U of PEI	Dr. D. Stevens dstevens@upe.ca
Effect of regular exercise and softer flooring on lameness in gestating sows	AAFC, Lennoxville, QU	Dr. S. Torrey torreys@agr.gc.ca
Identifying dairy cow lameness: use of kinematic measures of gait and	UBC, Animal Welfare Program, BC	Dr. D. Weary danweary@interchange.ubc.ca

validation of subjective measures of lameness		
3. Production methods		
Nutritional strategies to improve health, well-being and production efficiency of beef	AAFC, Lethbridge, AB	Dr. K. Beauchemin beauchemin@agr.gc.ca
Effects of human intervention (injection of oxytocin, and pulling piglets) during farrowing on sow behaviour and piglets' vitality	AAFC, Lennoxville, QU	Dr. N. Devillers devillersn@agr.gc.ca
Effect of feeding management on learning of diet selection in dairy heifers	U of Guelph, Kemptville Campus, ON	Dr. T. Devries tdevries@kemptvillec.uoguelph.ca
Impact of an extended photoperiod in farrowing houses on survival, growth and immune status of piglets	AAFC, Lennoxville, QU	Dr. C. Farmer farmerc@agr.gc.ca
Dietary supplementation with flax in late pregnant and lactating sows: impacts on vigour and growth of suckling piglets	AAFC, Lennoxville, QU	Dr. C. Farmer farmerc@agr.gc.ca
Application of new food strategies which can support the satiety of the fasted pig and reduce water ingestion before slaughter	AAFC, Lennoxville, QU	Dr. L. Faucitano faucitano1@agr.gc.ca
Weaning stress: The physiological responses of beef calves weaned either in two stages or abruptly	AFNS, U of Alberta, AB	Dr. D. Haley derek.haley@afhe.ualberta.ca
Reducing acidosis in beef cattle by allowing free access to sodium bicarbonate	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca Dr. D. Weary danweary@interchange.ubc.ca
Using feeding behaviour to identify cows at risk of ill health	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca Dr. D. Weary danweary@interchange.ubc.ca

Effect of lighting programs on leg weakness and bird welfare in modern commercial broilers	U of Saskatchewan, SK	Dr. H. Classen hank.classen@usask.ca
Improvement of dairy cow's longevity by reshaping the lactation curve	AAFC, Lennoxville, QU	Dr. P. Lacasse lacassep@agr.gc.ca
An evaluation of treatment with Draxxin® sterile injectable solution (tulathromycin) in Holstein heifer calves at weaning on measures of behaviour, health and performance	OVC, U of Guelph	Dr. K. Leslie keleslie@ovc.uoguelph.ca
Investigations into biological indicators, behavioural responses and management solutions to problems at calving in dairy cattle	OVC, U of Guelph	Dr. K. Leslie keleslie@ovc.uoguelph.ca
Improving nutrient utilization of dairy cows by optimization of feeding time and feeding patterns	U of Manitoba, MB	Dr. J.C. Plaizier plaizier@ms.umanitoba.ca
Improving welfare, health and performance of beef cattle	AAFC, Lethbridge, AB	Dr. K. Schwartzkopfgenswein gensweink@agr.gc.ca
Determining the influence of drinking behaviour on feed intake and the development of behaviour problems in newly weaned pigs	AAFC, Lennoxville, QU U of Guelph, ON	Dr. S. Torrey torreys@agr.gc.ca Dr. T. Widowski twidowsk@uoguelph.ca
Dairy calf welfare: impact of <i>ad libitum</i> milk on behaviour and performance, reducing pain during dehorning through the use of caustic paste and anesthesia, and impact of group housing on behaviour and performance	UBC, Animal Welfare Program, BC	Dr. D. Weary danweary@interchange.ubc.ca Dr. M. von Keyserlingk nina@interchange.ubc.ca
The assessment of	UBC, Animal Welfare	Dr. D. Weary

individual feeding and drinking behaviour in group-housed cattle using electronic monitoring systems	Program, BC	danweary@interchange.ubc.ca Dr. M. von Keyserlingk nina@interchange.ubc.ca
4. Housing		
An economic and welfare comparison of three types of group housing of pregnant sows and gilts	AAFC, Lacombe, AB U of Alberta	Dr. N. Cook nigel.cook@gov.ab.ca
Welfare considerations in determining the group size of laying hens housed in furnished colony cages containing nest boxes, perches and scratch pads	AAFC, Lacombe, AB U of Alberta	Dr. N. Cook nigel.cook@gov.ab.ca
Effect of housing system in maternity on sow maternal behaviour: comparison between the farrowing crate and a modified farrowing pen	AAFC, Lennoxville, QU	Dr. N. Devillers devillersn@agr.gc.ca
Effects of a piglet and/or sow communal area in lactation on maternal and nursing behaviour of the sow and on social behaviour and performances of piglets after weaning	AAFC, Lennoxville, QU	Dr. N. Devillers devillersn@agr.gc.ca
Dynamic function tests of HPA axis activity assessed by measurement of salivary cortisol concentrations, as markers of chronic stress in intensively housed pigs	Prairie Swine Centre, U of Saskatchewan, SK AAFC, Lacombe, AB	Dr. H. Gonyou harold.gonyou@usask.ca Dr. N. Cook nigel.cook@gov.ab.ca
Pasture access: cow choice when provided free access to both indoors and pasture and influence of pasture access on lameness	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca Dr. D. Weary danweary@interchange.ubc.ca
A study on the longevity of sows in group housing	U of Manitoba, MB	Dr. N. Lewis Nora_lewis@umanitoba.ca

Improving freestall design in dairy cattle - lying areas	UBC, Animal Welfare Program, BC	Dr. D. Weary danweary@interchange.ubc.ca Dr. M. von Keyserlingk nina@interchange.ubc.ca
Improving freestall design in dairy cattle – feeding areas	UBC, Animal Welfare Program, BC	Dr. D. Weary danweary@interchange.ubc.ca Dr. M. von Keyserlingk nina@interchange.ubc.ca
Pressure lesions: The use of human pressure measurement systems to determine the type of farrowing crate flooring that promotes fewer sow shoulder lesions	OMAF, ON	Dr. K. Zurbrigg kathy.zurbrigg@ontario.ca
5. General		
Fear in horses and how it is affected by the rider, training and genetics	U of Guelph, Kemptville Campus, ON	Dr. U. von Borstel uvonbors@uoguelph.ca
Quantifying horses' aversion to Rollkur (hyperflexion of the neck)	U of Guelph, Kemptville Campus, ON	Dr. U. von Borstel uvonbors@uoguelph.ca
An investigation of therapeutic riding and its potential welfare implications for horses	U of Guelph, Kemptville Campus, ON U of Guelph, ON	Dr. U. von Borstel uvonbors@uoguelph.ca Dr. K. Merkies kmerkies@kemptvillec.uoguelph.ca Dr. T. Widowski twidowsk@uoguelph.ca
Measurement of corticosterone concentrations in the yolk and albumin of eggs of laying hens as a biomarker of maternal adrenocortical activity	AAFC, Lacombe, AB U of Alberta	Dr. N. Cook nigel.cook@gov.ab.ca
The use of infrared thermography to visually and quantifiably assess feather cover in laying hens	AAFC, Lacombe, AB U of Alberta	Dr. N. Cook nigel.cook@gov.ab.ca
Proteomic profiling of biological samples by MALDI-ToF/MS to identify biomarkers of	AAFC, Lacombe, AB	Dr. N Cook nigel.cook@gov.ab.ca

stress/distress, pain, fear and disease in livestock species		
A non-invasive test of stress in laying hens	AAFC, Lacombe, AB	Dr. N Cook nigel.cook@gov.ab.ca
Effect of weaning age on social behaviour of piglets	AAFC, Lennoxville, QU	Dr. N. Devillers devillersn@agr.gc.ca
On-farm assessment of welfare of breeding sows: development of tools for evaluation of lameness, stereotypies, skin lesions and fear of humans	AAFC, Lennoxville, QU	Dr. N. Devillers devillersn@agr.gc.ca
An investigation into the causation of feather-pecking and dustbathing in chickens	U of Guelph, ON	Dr. I. Duncan iduncan@uoguelph.ca
Fear in rainbow trout	U of Guelph, ON	Dr. I. Duncan iduncan@uoguelph.ca
Fear and horse-rider interactions	U of Guelph, ON	Dr. I. Duncan iduncan@uoguelph.ca
Understanding the beliefs, attitudes and concerns of various groups of Canadians about the care and treatment of farm animals: finding areas of agreement and reducing conflicts over appropriate standards of care	UBC, Animal Welfare Program, BC	Dr. D. Fraser dfraser@interchange.ubc.ca
Improvement of the welfare and meat quality of pigs through the study of some handling procedures at the farm and at the slaughter plant	AAFC, Lennoxville, QU	Dr. L. Faucitano faucitanol@agr.gc.ca
Identification of the best showering regime to improve well-being, carcass and meat quality in pigs	AAFC, Lennoxville, QU	Dr. L. Faucitano faucitanol@agr.gc.ca
A study to investigate the pattern of changes of turkey eggs throughout the length of production	Cold Springs Farm Ltd	Amir Ghane

cycle, differences between early and mid-lay poults and the importance of early feeding on their livability and foraging behaviour		
Evaluation of humane methods of mass euthanasia of Poultry	U of Guelph, ON	Dr. B. Hunter bhunter@uoguelph.ca Dr. P. Turner pvturner@uoguelph.ca
The correlation of flight speed with personality and productivity in beef cattle	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca
Environmental enrichment: use of mechanical brushes by dairy cows	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca
Transition period behaviour: changes in feeding, drinking and standing behaviour	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca Dr. D. Weary danweary@interchange.ubc.ca
Social interactions in group-housed dairy cows	UBC, Animal Welfare Program, BC	Dr. M. von Keyserlingk nina@interchange.ubc.ca Dr. D. Weary danweary@interchange.ubc.ca
Effect of pre-lay medullary bone reserves on changes in bone mineral reserves, egg production and quality, and osteoporosis in laying hens	U of Alberta, AB	Dr. D. Korver doug.korver@ualberta.ca
Bioactive molecules in colostrum and regulation of intestinal inflammatory reactions: Development of a piglet model in piglet	AAFC, Lennoxville, QU	Dr. M. Lessard, lessardm@agr.gc.ca
Developmental issues in animals' responses to captive husbandry: the causation of stereotypic behaviour	U of Guelph, ON	Dr. G. Mason gmason@uoguelph.ca
Using cognitive bias to assess affective states in farmed mink	U of Guelph, ON	Dr. G. Mason gmason@uoguelph.ca
Bond formation between individuals within herds of	OVC, U of Guelph, ON	Dr. S. Millman smillman@ovc.uoguelph.ca

horses		
The influence of temperament and management on stress response and meat quality of pigs	U of Guelph, ON	Dr. P. Purslow ppurslow@uoguelph.ca Dr. T. Widowski twidowsk@uoguelph.ca
Reducing osteoporosis in laying hens with a yeast beta glucan	Nova Scotia Agricultural College	Dr. Bruce Rathgeber brathgeber@nsac.ca
Relationship of female feather coverage and reproductive condition with male mating aggression and social behaviour in broiler breeders	U of Alberta, AB	Dr. Frank Robinson frank.robinson@ualberta.ca
Development of a health and welfare monitoring system for dairy calves and rearing heifers	AAFC, Agassiz, BC	Dr. J. Rushen rushenj@agr.gc.ca Dr. A.M. de Passille depassilleam@agr.gc.ca
Behaviour, health and growth of calves housed in groups and fed with a computerized milk feeding system	AAFC, Agassiz, BC	Dr. J. Rushen rushenj@agr.gc.ca Dr. A.M. de Passille depassilleam@agr.gc.ca
How do cattle cope with social competition?	AAFC, Agassiz, BC	Dr. J. Rushen rushenj@agr.gc.ca
The use of infrared thermography in the early detection of bovine respiratory disease (BRD) in commercial cattle	AAFC, Lacombe, AB AFNS, University of Alberta, AB	Dr. A. Schaefer schaefera@agr.gc.ca Dr. C. Bench clover.bench@afhe.ualberta.ca
Determining the optimum age for tail docking and ear notching pigs	AAFC, Lennoxville, QU	Dr. S. Torrey torreys@agr.gc.ca
Examination of factors influencing piglets' suckling and feeding motivation	AAFC, Lennoxville, QU	Dr. S. Torrey torreys@agr.gc.ca
Behavioural indicators of hunger and weaning distress in limit-fed calves.	UBC, Animal Welfare Program, BC	Dr. D. Weary danweary@interchange.ubc.ca Dr. M. von Keyserlingk nina@interchange.ubc.ca
Ontogeny of ingestive behaviour in piglets and the relationship to oral behaviour problems	U of Guelph, ON	Dr. T. Widowski twidowsk@uoguelph.ca

Evaluation of alternative methods of euthanasia for cull turkeys via telemetry	U of Guelph, ON OVC, U of Guelph, ON	Dr. T. Widowski twidowsk@uoguelph.ca Dr. P. Turner pvtturner@uoguelph.ca
Effectiveness of non-penetrating captive bolt device for on-farm euthanasia of low viability pigs	U of Guelph, ON OMAFRA, ON	Dr. T. Widowski twidowsk@uoguelph.ca P. Lawlis penny.lawlis@ontario.ca

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