

Publications

Book/Chapter

Mason and J. Rushen. (Eds) 'Stereotypic animal behaviour: Fundamentals and implications for animal welfare', second edition. CABI, Wallingford, Oxford. (in press)

Rushen, J. 2000. Some issues in the interpretation of behavioural responses to stress. Pages 23-42 in Moberg, G.P.; Mench, J.A., eds. The biology of animal stress: Basic principles and implications for animal welfare. CABI Publishing, Oxon, United Kingdom.

BEEF

Recognized scientific journal

Vessier, I.; Rushen, J.; Colwell, D.D.; dePassille, A.-M. 2000. A laser-based method for measuring pain sensitivity of cattle. *Appl. Anim. Behav. Sci.* 66:289-304.

DAIRY

Refereed Journal Articles

Hänninen, L., de Passillé, A. M., Rushen, J. (2005) The effect of flooring type and social grouping on the rest and growth of dairy calves. *Applied Animal Behaviour Science.* 91: 193-204

Borderas T. F., B. Pawluczuk, A. M. de Passillé, and J. Rushen (2004) Claw Hardness of Dairy Cows: Relationship to Water Content and Claw Lesions. *Journal of Dairy Science.* 87: 2085-2093

Ceballos, A., Sanderson, D., Rushen, J. and Weary, D. (2004). Improving stall design: Use of 3-D kinematics to measure space use by dairy cows when lying down. *Journal of Dairy Science* 87:2042-2050

De Passillé, A. M. B. and Rushen, J. (2004) Can we measure human-animal interactions in on-farm animal welfare assessment? Some unresolved issues. *Applied Animal Behaviour Science* (in press)

De Passillé, A. M. and Rushen, J. (2004) Housing and welfare. In: *Encyclopedia of Meat Sciences*. Edited by Werner K Jensen, Carrick Devine and Michael Dikeman, Elsevier: Oxford . 2004. P1034-1041; ISBN 0-12-464970-X

Negrao, J., Porcionato, M. A., de Passillé, A. M. B., and Rushen, J. (2004). Cortisol in saliva and plasma of cattle after ACTH administration and milking. *Journal of Dairy Science.* 87: 1713-1718

Welp, T., Rushen, J., Kramer, D. L., Festa-Bianchet, M., and de Passillé, A. M. B. (2004). Vigilance as a measure of fear in dairy cattle. *Applied Animal Behaviour Science*. 87:1-13

Wredle, E., Rushen, J., de Passillé, A. M. and Munksgaard, L. (2004) Training cattle to approach a feed source in response to auditory signals. *Canadian Journal of Animal Science*. 84: 567-572

Haley, D.B.; Rushen, J.; de Passillé, A.M.B. 2000. Behavioural indicators of cow comfort: activity and resting behaviour of dairy cows in two types of housing. *Can. J. Anim. Sci.* 80:257-263.

Pajor, E.A.; Rushen, J.; de Passillé, A.M. 2000. The use of choice tests to evaluate dairy cow handling practices. *J. Dairy Sci.* 83(1):37.

Pajor, E.A.; Rushen, J.; de Passillé, A.M.B. 2000. Aversion learning techniques to evaluate dairy cattle handling practices. *Appl. Anim. Behav. Sci.* 69:89-102.

Veissier, I.; Rushen, J.; Collwell, D.; de Passillé, A M.B. 2000. A laser-based method for measuring thermal nociception of cattle. *Appl. Anim. Behav. Sci.* 66:289-304.

Munksgaard, L.; de Passillé, A.M.; Rushen, J.; Ladewig, J. 1999. Dairy cows' use of colour cues to discriminate between people. *Appl. Anim. Behav. Sci.* 65:1-11.

Pajor, E.A. ; Rushen, J.; de Passillé, A. M. 1999. Aversion learning techniques to evaluate dairy cow handling practices. *J. Anim. Sci.* 77: (Suppl.1):149.

Rushen, J.; Boissy, A.; Terlouw, E.M.C.; de Passillé, A.M.B. 1999. Opioid peptides and behavioral and physiological responses of dairy cows to social isolation in unfamiliar surroundings. *J. Anim. Sci.* 77:2918-2924.

Rushen, J.; Taylor, A. A.; de Passillé, A.M. 1999. Domestic animals' fear of humans and its effect on their welfare. *Appl. Anim. Behav. Sci.* 65:285-303.

Rushen, J.; Taylor, A.A.; de Passillé, A.M. 1999. La peur des animaux domestiques envers les humains et son influence sur leur bien-être. *Cah. Agric.* 8:461-470.

Rushen, J.; de Passillé, A.M.B.; Munksgaard, L. 1999. Fear of people by cows and effects on milk yield, behavior, and heart rate at milking. *J. Dairy Sci.* 82:720-727.

Conference presentations - Invited

Rushen, J. (2005) International perspectives on animal welfare assessment. Animal Welfare Objective Measures Workshop., Meat and Livestock Australia. Sydney, 6th June 2005.

Rushen, J. (2005) Welfare problems in dairy cows. Summer Dairy Institute, Cornell University, Ithaca, June 29th. 2005

Rushen, J. and de Passillé, A. M. (2005) Animal welfare of farm animals used in research. Canadian Council of Animal Care Workshop on Animal Welfare Assessment, Ottawa, 12th April, 2005

Rushen, J. and de Passillé (2005) Animal welfare in standards for organic agriculture. Independent Organic Inspectors Association at Inspector Training Workshop March 18th Vancouver.

Rushen, J. and de Passillé, A. M. B. (2005) Acute stress and handling during milking; Proceedings of the National Mastitis Council 44th Annual Meeting, Orlando, Florida, Jan 16-19th 2005. pp:149-159

De Passillé, A. M. B. and J. Rushen (In press) Feeding management and stress in calves; Proceeding of the Xth International Symposium on Ruminant Physiology; August 30th to September 4th, 2004 Copenhagen, Denmark; Wageningen Academic Press.

De Passillé, A. M. Rushen, J. And Weary D. 2003. Bien-être des bovins, quelques pistes qui rapportent. Conférence sur l'agriculture biologique. MAPAQ du Bas St Laurent, Mont Jolie. March 2003

Rushen, J. 2003. The welfare of the high producing animal. Keynote talk. New Dimensions in Dairy Development. Stockholm, June 2003.

Rushen, J. and de Passillé, A. M. 2003. Dairy cows prefer to stand on softer floors and walk faster and more securely on soft flooring with good traction. Plenary Presentation at Summer Congress of International Society for Applied Ethology, Abano Terme Italy, June 2003.

Conference presentations

Botheras, N., Hemsworth, P. H., Chaplin, S., de Passillé, A.M. and Rushen, J. (2004) Time budgets of Australian dairy cows at pasture. In: L. Hanninen and A. Valros (eds). Proceedings of the 38th International Congress of the International Society for Applied Ethology.

Botheras, N. A., Hemsworth, P. H., Chaplin, S. J., de Passillé, A. M. and Rushen, J. (2004) The time budgets of behaviour of Australian dairy cows on pasture. Proceedings of the Australian Dairy Science Symposium. 1: 11

Borderas, F., Ter Maat, S., de Passillé, A. M., Rushen, J. and Fournier, A. (2004). Effects of lameness on dairy cows' frequency of visits to an automated milking system (AMS). In: L. Hanninen and A. Valros (eds). Proceedings of the 38th International Congress of the International Society for Applied Ethology.

Neveux, S., de Passillé, A. M., Weary, D. M., and Rushen, J. (2004). Detecting lameness in dairy cows. Poster presented at the Western Canadian Dairy Seminar, Red Deer, March 2004.

Neveux, S., de Passillé, A. M., Rushen, J. and Weary, D. (2004). Changes in weight distribution to detect hoof pain in dairy cows. In: L. Hanninen and A. Valros (eds). Proceedings of the 38th International Congress of the International Society for Applied Ethology.

Norring, M., Manninen, E., de Passillé, A. M., Rushen, J., and Saloniemi, H. (2004). Familiarity of bedding material affects cubicle preference in dairy cows. In: L. Hanninen and A. Valros (eds). Proceedings of the 38th International Congress of the International Society for Applied Ethology.

Rushen, J., Rybarczyk, P., Munksgaard, L., Bergeron, R. and de Passillé, A. M. (2004). Do cows preferentially learn to associate a handling treatment with a person or a place? In: L. Hanninen and A. Valros (eds). Proceedings of the 38th International Congress of the International Society for Applied Ethology.

Botheras, N. A., Hemsworth, P. H., Chaplin, S. J., de Passillé, A. M. and Rushen, J. 2003. Time budgets and the welfare and productivity of dairy cows. In: B. Fulkerson and D. McNeill (Eds) Current Topics in Dairy Production. Volume 8. P106-107. University Printing Service, Sydney.

De Passillé and Rushen, J. 2003. Cross-sucking before and after weaning by calves fed with a computerized milk feeding system Poster presentation at Summer Congress of International Society for Applied Ethology, Abano Terme Italy, June 2003.

Flower F. C., A. M. de Passillé and J. Rushen, D. M. Weary 2003. Do alternative flooring surfaces improve dairy cow gait? Presentation at Summer Congress of International Society for Applied Ethology, Abano Terme Italy, June 2003.

Hänninen, L, P. L? vendahl, A.M. de Passillé, J. Rushen. 2003 Does relocation or flooring material affect calves` activity, or pulsatile cortisol or GH secretion? Presentation at Summer Congress of International Society for Applied Ethology, Abano Terme Italy, June 2003

Hanninen, L., A. M. de Passillé and J. Rushen. 2003 Does softness of flooring or a companion calf affect calves` activity and growth?. Presented at Nordic Regional ISAE Sigtuna, Sweden January 23-25 2003

Neveux, H. Oostra, A. M. de Passillé, J. Rushen. 2003 Validating on-farm tools for their ability to detect lameness in dairy cows. Presentation at Summer Congress of International Society for Applied Ethology, Abano Terme Italy, June 2003.

Wredle, E., A. M. de Passillé, J. Rushen L. Munksgaard. 2003 Can auditory signals be used on an individual level to attract heifers to a feed source? Presented at Nordic Regional ISAE Sigtuna, Sweden January 23-25 2003

Pajor, E.A.; Rushen, J.; de Passillé, A.M. 2000. Using choice tests to evaluate dairy cow handling practices. Page 78 in Ramos, A.; Pinheiro Machado, L.C.; Hötzel, M.J., eds. Proceedings of the 34th International Congress of the International Society of Applied Ethology, 17-20 October 2000, Florianopolis, Brazil.

Rushen, J.; de Passillé, A.M.B.; Haley, D. 2000. Les effets d'un plancher plus mou dans les logettes sur le comportement, la santé et la productivité des vaches laitières. Page 179 dans Journées de recherche et Colloque en productions animales, Sainte-Foy, 31 mai et 1er juin 2000. Regroupement CPAQ-CPVQ-GÉAGRI et Université Laval.

Rybarczyk, P.; Koba, Y.; Rushen, J.; Tanida, H.; de Passillé, A.M. 2000. Do cows recognize people by their faces? Page 81 in Ramos, A.; Pinheiro Machado, L.C.; Hötzel, M.J., eds. Proceedings of the 34th International Congress of the International Society of Applied Ethology, 17-20 October 2000, Florianopolis, Brazil.

Rybarczyk, P.; Koba, Y.; Rushen, J.; Tanida, H.; de Passillé, A.M. 2000. Les vaches reconnaissent-elles les personnages par leur visage? Page 93 dans Journées de recherche et Colloque en productions animales, Sainte-Foy, 31 mai-1er juin 2000. Regroupement CPAQ-CPVQ-GÉAGRI et Université Laval. 179 pp.

Veissier, I.; Boissy, A.; Roussel, S.; de Passillé, A. M.; Rushen, J.; et al. 2000 Calves' responses to repeated social regrouping and re-association. Page 72 in Ramos, A.; Pinheiro Machado, L.C.; Hötzel, M.J., eds. Proceedings of the 34th International Congress of the International Society of Applied Ethology, 17-20 October 2000, Florianopolis, Brazil.

Welp, T.; Rushen, J.; Kramer, D.L.; Festa-Bianchet, M.; de Passillé, A.M. 2000. Measuring vigilance as an indicator of fear in dairy cattle. Page 213 in Ramos, A.; Pinheiro Machado, L.C.; Hötzel, M.J., eds. Proceedings of the 34th International Congress of the International Society of Applied Ethology, 17-20 October 2000, Florianopolis, Brazil.

De Passillé, A.M.; Veissier, I.; Rushen, J.; Colwell, D. 1999. A laser-based method for measuring pain sensitivity of cattle. Page 141 in Boe, K.E.; Bakken, M.; Braastad, B.V.; eds. Proceedings of the 33rd International Congress of the International Society for Applied Ethology, August 17-21, 1999, Lillehammer, Norway.

Haley, D.B.; Rushen, J.; de Passillé, A.M. 1999. Effects of softer flooring on the behaviour, health and productivity of dairy cows in tie stall housing. Page 127 in Boe,

K.E.; Bakken, M.; Braastad, B.O., eds. Proceedings of the 33rd International Congress of the International Society for Applied Ethology, August 17-21, 1999, Lillehammer, Norway.

Hänninen, L.; de Passillé, A.M.; Rushen, J. 1999. The effect of flooring type and social grouping on the growth and activity of dairy calves. Page 139 in Boe, K.E.; Bakken, M.; Braastad, B.O., eds. Proceedings of the 33rd International Congress of the International Society for Applied Ethology, August 17-21, 1999, Lillehammer, Norway.

Rushen, J.; de Passillé, A.M. 1999. Environmental design for healthier and more profitable cows. Pages 319-333 in Kennelly, J., ed. Advances in Dairy Technology, Volume 11. Proceedings of the 1999 Western Canadian Dairy Seminar, University of Alberta, Edmonton, AB.

Rushen, J.; Munksgaard, L.; de Passillé, A.M.; Ladewig, J. 1999. Dairy cows' use of visual cues to recognize people. Page 47 in Boe, K.E.; Bakken, M.; Braastad, B.V.; eds. Proceedings of the 33rd International Congress of the International Society for Applied Ethology, August 17-21, 1999, Lillehammer, Norway.

Other Articles

Tucker, C., Weary, D. M. Rushen, J. and de Passillé, A. M. B. 2004. Designing better environments for dairy cattle to rest. In: J. Kennelly (Ed.) Advances in Dairy Technology 16: 39-53.

Rushen, J., de Passillé, A. M., Borderas, F., Tucker, C. and Weary, D. 2004. Designing better environments for cows to walk and stand. In: J. Kennelly (Ed.) Advances in Dairy Technology 16: 55-64.

De Passillé, A. M., Rushen, J., and Weary, D. 2004. Designing good environments and management for calves. In: J. Kennelly (Ed.) Advances in Dairy Technology 16: 75-89.

Rushen, J.; de Passillé, A. M. and Bilodeau, P. (2005) Le rôle du plancher de l'étable dans la santé et le confort des vaches. Le Producteur de Lait Québécois. Mars 2005; 25 (6) 36-37

Reviews

De Passillé, A. M. and Rushen, J. (2004) Housing and welfare. In: Encyclopedia of Meat Sciences. Edited by Werner K Jensen, Carrick Devine and Michael Dikeman, Elsevier: Oxford . 2004. P1034-1041; ISBN 0-12-464970-X

De Passillé, A. M. B. and Rushen, J. (2004) Can we measure human-animal interactions in on-farm animal welfare assessment? Some unresolved issues. Applied Animal Behaviour Science (in press)

De Passillé, A. M. and Rushen, J. (in press) Food safety and environmental issues in animal welfare. OIE Scientific and Technical Review (Special Issue on Animal Welfare:Global Challenges)_24:

Rushen, J. and Mason, G. (in press) A decade-or-more's progress in understanding stereotypies. In G. Mason and J. Rushen. (Eds) Stereotypic animal behaviour: Fundamentals and implications for animal welfare', second edition. CABI, Wallingford, Oxford.

Rushen, J. (In press) Flooring. In D. Mills (Ed) Encyclopedia of Animal Health and Welfare. CABI, Wallingford, UK.

Rushen, J. (In press) Tongue rolling. In D. Mills (Ed) Encyclopedia of Animal Health and Welfare. CABI, Wallingford, UK.

Rushen, J. (In press) Cross-suckling. In D. Mills (Ed) Encyclopedia of Animal Health and Welfare. CABI, Wallingford, UK.

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Refereed Journal Articles

Robert, S.; Farmer, C.; Rushen, J. 2000. Manure production of first-litter sows fed a high-fibre diet during gestation. *Can. J. Anim. Sci.* 80:737-739.

Rushen, J.; Robert, S.; Farmer, C. 1999. Effects of an oat-based high-fibre diet on insulin, glucose, cortisol and free fatty acid concentrations in gilts. *Anim. Sci.* 69:395-401.