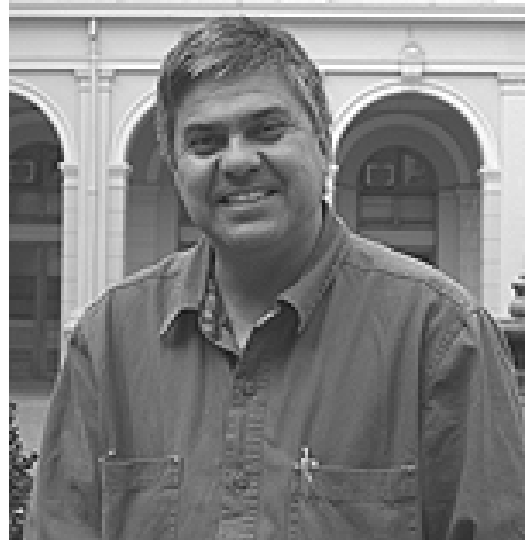


Pedro Melendez, MV, MS, PhD
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1.- INFORMACIÓN PERSONAL.-

NOMBRE : Pedro Meléndez Retamal
C. IDENTIDAD (Pasaporte) : 9.859.410-8 Nacional
LUGAR Y FECHA NACIMIENTO : 06 de Enero, 1966
NACIONALIDAD : Chilena
ESTADO CIVIL : Casado

GRADOS ACADÉMICOS Y RESIDENCIA

- Licenciado en Ciencias Veterinarias y Pecuarias (1983-1990). Facultad de Ciencias Veterinarias y Pecuarias, Universidad de Chile
- MS (1998-2000). College of Veterinary Medicine, University of Florida.
- Residencia en Medicina Productiva del bovino (1997-2000). College of Veterinary Medicine, University of Florida.
- PhD (2000-2003). College of Veterinary Medicine, University of Florida.

CARGO ACTUAL EN LA U. DE FLORIDA

: Profesor asistente

DEPARTAMENTO FACULTAD O INSTITUTO

: Ciencias Clínicas de Animales Mayores
: Colegio de Medicina Veterinaria, Universidad de Florida

AREAS DE INTERES

: Medicina productiva del bovino lechero con especial énfasis en el manejo general y nutricional de la vaca lechera en transición para optimizar la productividad y

fertilidad del ganado.

2. ESTUDIOS REALIZADOS:

2.1. ESTUDIOS SUPERIORES:

- Facultad de Ciencias Veterinarias y Pecuarias, Universidad de Chile. Licenciado en Ciencias Veterinarias y Pecuarias. 1983-1990. Tesis de grado para optar al título de Médico Veterinario: "Determinación de metales pesados (Cu, Zn, Mo, Pb y Cd) en hígado de bovinos sanos provenientes de la región Metropolitana, VI, VII, VIII, IX, X y XI regiones del país".
- Universidad de Florida, Estados Unidos. Colegio de Medicina Veterinaria. Programa de "Master of Science". Desde Junio 1998 a Junio 2000. El master fue desarrollado en el área del manejo de la vaca lechera en transición con énfasis en la prevención de enfermedades asociadas al parto y manejo nutricional. El programa consistió en 24 créditos de cursos y 6 créditos de investigación. El promedio de notas de los cursos o GPA fue de 4.0 (excelencia académica). La defensa de tesis fue llevada a cabo en Mayo del 2000.
- Universidad de Florida, Estados Unidos. Colegio de Medicina Veterinaria. Programa de Doctorado (PhD) en el Departamento de Ciencias Clínicas de Animales Mayores. El PhD fue desarrollado en el área del manejo de la vaca lechera en transición con énfasis en la prevención de enfermedades asociadas al parto y manejo nutricional a través del uso de monensina sodica en vacas lactantes. El programa consistió de 60 créditos. El promedio de notas de los cursos o GPA fue de 4.0 (excelencia académica). La defensa de la disertación fue llevada a cabo en Enero del 2004.

2.2. ACTIVIDADES DE PERFECCIONAMIENTO:

- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Curso de Post-Título. **Programas Computacionales para la Producción lechera.** Santiago, 9-11 de Julio de 1992
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Curso de Post-Título y Extensión. **Diseño de instalaciones y manejo ambiental para rebaños lecheros de alta producción.** Santiago 4 y 5 de Noviembre de 1992.
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. **Introducción a la micro computación, Word-Perfect y Lotus 1-2-3.** Santiago, Centro de Computación. Santiago, 4 al 29 Enero de 1993.
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Asignatura del Programa de Magister de la Facultad. **Epidemiología Veterinaria.** II semestre, 1993.
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Asignatura del Programa de Magister de la Facultad. **Nutrición de Rumiantes.** II semestre, 1994.
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Asignatura del Programa de Magister de la Facultad. **Reproducción Animal.** II semestre de 1994.

- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Curso de Post-Título y Extensión. **Sistema de Manejo de Estiércol e Instalaciones de Ordeña para Rebaños Lecheros de Alta Producción.** Santiago 4 y 5 de Agosto de 1994.
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Curso de Post-Título. **Anestésias regionales y podopatologías del bovino.** Santiago, 17-18 Octubre, 1994. Santiago.
- Universidad Austral de Chile, Facultad de Ciencias Veterinarias - Agencia Internacional de Cooperación del Japón (JICA). **IX Curso Internacional en Reproducción Animal.** 6 de Noviembre al 10 de Diciembre de 1994. Valdivia, Chile.
- Universidad Austral de Chile, Facultad de Ciencias Veterinarias. Simposio y Curso Internacional. **Relaciones Embrionarias y Biotecnologías Reproductivas.** Valdivia, 26-27 y 28 de Abril, 1995.
- National Veterinary Institute y Swedish University of Agricultural Sciences. **Estadía y Adiestramiento en Enfermedades de la Reproducción.** Uppsala, Suecia. 5 de Junio al 7 de Julio de 1995.
- Universidad de Chile, Facultad de Ciencias Veterinarias y Pecuarias. Asignatura del Programa de Magister de la Facultad. **Inmunología Veterinaria.** II semestre de 1995.
- Universidad de Florida, Estados Unidos. Colegio de Medicina Veterinaria. Residencia "Food Animal Production" Desde Julio, 1997 a Junio 2000. Esta residencia consistió en salidas a predios lecheros, carne para llevar a cabo los servicios clínicos, manejo nutricional y reproductivo.
- 9th Annual Florida Ruminant Nutrition Symposium. Gainesville, FL. January 15-16, 1998.
- 47th Annual Florida Beef Cattle Short Course. "Managing nutrition and forages to improve productivity and profitability". Gainesville, FL. May 6-8, 1998.
- 35th Annual Florida Dairy Production Conference. Gainesville, FL. May 5, 1998.
- 32th Annual Conference of the American Association of Bovine Practitioners. Nashville, TN. September 21-25, 1999.
- Training: "Study design in dairy cattle metabolic disorders" conducted by Dr. Jesse Goff : USDA-Agricultural Research Service, National Animal Disease Center, Metabolic Diseases and Immunology Research Unit, Ames, IA. September 13-20, 1999.
- 11th Annual Florida Ruminant Nutrition Symposium. Gainesville, FL. January 15-16, 2000.
- 37th Annual Florida Dairy Production Conference. Gainesville, FL. May 5, 2000.
- 49th Annual Beef Cattle Short Course. Biotechnologies of Reproductive Biology. Gainesville, FL, May 3-5, 2000
- XXI World Buiatrics Congress. Punta del Este Uruguay. 4-8 Diciembre, 2000
- XXVII Jornadas uruguayas de Buiatria. Punta del Este Uruguay. 4-8 Diciembre, 2000
- 38th Florida Dairy Production Conference. Gainesville, FL. May1-2, 2001.
- 12th International Symposium on Lameness in Ruminants. Orlando, Fl. January 9-13, 2002.

- The North American Veterinary Conference 2002. Orlando, FL January 12-16.
- 39th Florida Dairy Production Conference. Gainesville, FL. April 30-May 1, 2002.
- Laboratory analysis of rumen fluid metabolites. ELANCO Animal Health, Greenfield, IN. May 14-18, 2003.

3. DISTINCIONES OBTENIDAS.

3.1. BECAS.

- Universidad Austral de Chile- Agencia de Cooperación Internacional del Japón (JICA). IX Curso Internacional de Reproducción Animal, llevado a cabo en Valdivia, Chile. La beca cubrió el Curso, pasajes y la Estadía desde el 6 de Noviembre al 10 de Diciembre de 1994.
- Universidad de Chile; DTI. Ayuda económica que cubrió el 100% del pasaje aéreo ida y vuelta para llevar a cabo la estadía y adiestramiento en el National Veterinary Institute, Uppsala, Suecia.
- Universidad de Florida, Estados Unidos. Colegio de Medicina Veterinaria. Residencia en Medicina Productiva. 1997-2000
- Universidad de Florida, Estados Unidos. Colegio de Medicina Veterinaria. Teaching Assistantship para la escuela de graduados de la Universidad de Florida para llevar a cabo el programa de magíster y doctorado. 1997-2003

3.2 DIPLOMAS

- Certificate of Award for Academic Achievement by an International Student. In recognition of earning accumulative 4.0 grade point average. Abril 20, 1999. University of Florida.
- In acknowledgment for his outstanding service as a resident in the Rural Animal Medicine Service, College of Veterinary Medicine, University of Florida, Junio 2000.
- Certificate of Academic Excellence. International Student Academic Award Program. University of Florida. Abril 25, 2001.
- Certificate of Achievement for Outstanding Academic Accomplishment. University of Florida. Abril 02, 2001.
- Best Clinical Science Publication. College of Veterinary Medicine, University of Florida. 2001.
- Certificate of Achievement for Outstanding Academic Accomplishment. University of Florida. Abril 25, 2002.
- Certificate of Academic Excellence. College of Veterinary Medicine and International Student Academic Awards Program. University of Florida. Abril 25, 2002.
- Award American Association of Bovine Practitioner. Research Assistantship. Sept 25-28, 2002.
- Excellence in Clinical Science Research. College of Veterinary Medicine, University of Florida. 2003.
- Certificate of Academic Excellence. College of Veterinary Medicine and International Student Academic Awards Program. University of Florida. Abril 23, 2003.
- Certificate of Achievement for Outstanding Academic Accomplishment. University of Florida. Abril 24, 2003.
- Alec Courtelis Award. Best International Graduate Student of University of Florida. Abril 23, 2003.

4. INVESTIGACIÓN

4.1 Proyectos

1. Evaluación del tamaño de partícula en dietas completas en vacas lactantes. Universidad de Florida. 2002. US\$2,000
2. *"Multilocation clinical study to determine the efficacy of ceftiofur for treatment of acute puerperal metritis in dairy cows"*. 2003. Pfizer US\$30,000
3. *"Production Seminar for Spanish-Speaking Workers in Florida Dairy Farms"*. Florida Milk Dairy Check-Off 2003-2004. US\$12,000.
4. Uso de aditivos para el incremento en el consumo de materia seca en ganado lechero. Universidad de Florida. 2004. US\$7,500
5. Uso de Yucca para el incremento en la productividad de ganado lechero orgánico. Universidad de Florida. 2005-2006. US\$12,500
6. *"Antibody response to ovalbumin as a measure of genetic disease resistance of dairy cows"*. Florida Milk Dairy Check-Off 2004-2006. US \$15,100.
7. *"Comparison of timed insemination and exogenous progesterone for treating ovarian cysts in the lactating dairy cows"*. Florida Dairy Check-Off 2005-2006 US\$8,250.
8. Veterinary Medical Association of Puerto Rico. 2004-2006. *"Spatial epidemiology of bovine anaplasmosis and piroplasmosis among dairy cattle in Puerto Rico"* US\$5,000.
9. USDA-TSTAR 2005-2006. *"Spatial epidemiology of bovine anaplasmosis and piroplasmosis among dairy cattle in Puerto Rico"* US\$99,000.
10. Fondo de fomento de la Industria Lechera de Puerto Rico. 2006. *"Spatial epidemiology of bovine anaplasmosis and piroplasmosis among dairy cattle in Puerto Rico"* Project number 00056136. US\$5,000.
11. CVM Spring Consolidated Faculty Research Development Award Grant Competition. 04/01/04-04/01/05, *"The effect of ghrelin on feed intake and energy status in pregnant ewes: a model for transition dairy cows"*. US \$7,500
12. CVM Spring Consolidated Faculty Research Development Award Grant Competition. 04/01/04-04/01/05. *"Comparison of timed insemination and exogenous progesterone for treating ovarian cysts in the lactating dairy cows"*. US \$7,500.
13. Zaragoza Hnos. Dairy Farm. Chihuahua, MEXICO. 2005-2006. \$12,000 *"Strategies for Timed Artificial Insemination in Mexican dairy cattle"*
14. Aurora Organic Dairy Farm, Plateville, CO/ USDA 2005-2006. \$15,000 *"Effect of Yucca on rumen fermentation, health and productive performance of transition dairy cows"*
15. Aurora Organic Dairy Farm, Plateville, CO. 2005-2006. \$1,000. *"Risk factors for twins calving in an organic dairy farm"*
16. Florida Milk Dairy Check-Off. 2006. \$11,400. *"The use of plasma/serum non-esterified fatty acids (NEFA) and Calcium concentrations at calving to predict*

4.2 Publicaciones (arbitradas)

1. **Melendez, P.**; Rodriguez, O.; Madrid, S.; Donovan, A. 2002. The association between forage particle size at initial feeding and the weigh back and chewing activity in dairy cattle. *The Bovine Practitioner*, 36(1): 66-70.
2. Bartolome, J.A.; Sheerin, P.; Luznar, S.; **Melendez, P.**; Kelbert, D.; Thatcher, W.W.; Archbald, L.F. 2002. Conception rate in lactating dairy cows after presynchronization with prostaglandin F_{2α} or gonadotropin releasing hormone (GnRH). *The Bovine Practitioner*, 36(1): 35-39.
3. **Meléndez, P.**; Donovan, A.; Risco, CA, Hall, BA; Littell, R; Goff J. 2002. Metabolic responses of Transition cows fed anionic salts and supplemented at calving with Calcium and Energy. *J. Dairy Sci.* 85:1085-1092.
4. **Melendez, P.**; Bartolome, J.; Archbald, L.; Donovan, A. 2003. Association between lameness, ovarian cysts and fertility in lactating dairy cows. *Theriogenology*, 59: 927-937.
5. **Meléndez, P.**; Donovan, A.; Risco, CA, Hall, BA; Littell, R; Goff J. 2003. Effect of calcium-energy supplements on calving-related disorders, fertility and milk yield during the transition period in cows fed anionic diets. *Theriogenology* 60:843-854.
6. **Melendez, P.**; Donovan, A.; Hernandez, J.; Bartolome, J.; Risco, C.; Staples, C.; Thatcher, W. 2003. Milk, plasma, and blood urea nitrogen concentrations, dietary protein, and fertility in dairy cattle. *JAVMA* 223: 628-634.
7. **Meléndez, P.**; Donovan, A. 2003. Herd prevalence of Bovine Viral Diarrhea (BVD) using a bulk-tank milk ELISA test in Chilean Dairy Herds. *Prev. Vet. Med.*, 60: 237-241.
8. Bartolome, JA; Santos, JEP; Pancarci, SM; **Melendez, P.**; Arteche, ACM; Hernandez, O; Archbald, LF; Trigg, T; Thatcher, WW. 2004. Induction of ovulation in nonlactating dairy cows and heifers using different doses of a deslorelin implant. *Theriogenology* 61: 407-419
9. Landaeta-Hernandez, A.J.; Giangreco, M.; **Melendez, P.**; Bartolome, J.; Bennet, F.; Rae, D.O.; Hernandez, J.; Archbald, L.F. 2004. Effect of biostimulation on uterine involution, early ovarian activity and first postpartum estrous cycle in beef cows. *Theriogenology* 61:1521-1532
10. **Melendez, P.**; Donovan, G.A.; Risco, C.A.; Goff, J.P. 2004. Plasma mineral and energy metabolite concentrations in dairy cows fed an anionic prepartum diet that did or did not have retained fetal membranes after parturition. *Am. J. Vet. Res.* 65: 1071-1076.
11. **Melendez, P.**; McHale, J.; Bartolome, J.; Archbald, L.F.; Donovan, G.A. 2004. The Effect of PGF₂ α Treatment in the Early Postpartum Period on Uterine Involution and

- Fertility in Holstein Cows with Acute Puerperal Metritis. *J. Dairy Sci.* 87:3238-3246.
12. **Melendez, P.**; Goff, J.P.; Risco, C.A.; Archbald, L.F.; Littell, R.; Donovan, G.A. 2004. Effect of a Monensin Controlled-Release Capsule on Rumen and Blood Metabolites in Florida Holstein Transition Cows. *J. Dairy Sci.* 87:4182-4189.
 13. Bartolome, J. A.; **Melendez, P.**; Kelbert, D.; Swift, K.; McHale, J.; Hernandez, J.; Silvestre, F.; Risco, C.A.; Arteche, A.C.M.; Thatcher, W.W. and Archbald, L.F. 2005. Strategic use of gonadotrophin-releasing hormone (GnRH) to increase pregnancy rate and reduce pregnancy loss in lactating dairy cows subjected to synchronization of ovulation and timed insemination *Theriogenology* 63:1026-1037.
 14. Bartolome, J.A.; Silvestre, F.T.; Kamimura, S.; Arteche, A.C.M.; **Melendez, P.**; Kelbert, D.; McHale, J.; Swift, K.; Archbald, L.F.; and Thatcher, W.W. 2005. Resynchronization of ovulation and timed insemination (TAI) in lactating dairy cows, I: Use of the ovsynch and heatsynch protocols after nonpregnancy diagnosis by ultrasonography. *Theriogenology* 63: 1617-1627.
 15. Bartolome, J.A.; Sozzi, A.; McHale, J.; **Melendez, P.**; Arteche, A.C.M.; Silvestre, F.T.; Kelbert, D.; Swift, K.; Archbald, L.F.; and Thatcher, W.W. 2005. Resynchronization of ovulation and timed insemination (TAI) in lactating dairy cows, II: Assigning protocols according stages and two common abnormalities of the estrous cycle. *Theriogenology* 63: 1628-1642.
 16. **Melendez, P.**; Risco, C.A. 2005. Management of transition cows to optimize reproductive efficiency in dairy herds. *Vet. Cl. North Am. Food Anim. Prac.* 21(2):485-501
 17. Bartolome, J.A.; Thatcher, W.W.; **Melendez, P.**; Risco, C.A.; Archbald, L.F. 2005. Diagnosis and treatment of ovarian cysts in dairy cattle. *J. Am. Vet. Med. Assoc.* 227:1409-1414.
 18. **Melendez, P.**; Goff, J.P.; Risco, C.A.; Archbald, L.F.; Littell, R.; Donovan, G.A. 2006. Incidence of subclinical ketosis in cows supplemented with a monensin controlled-release capsule in Holstein cattle, Florida, USA. *Prev. Vet. Med.* 73:33-42.
 19. **Melendez, P.**; Goff, J.P.; Risco, C.A.; Archbald, L.F.; Littell, R. Donovan, G.A. 2006. Effect of a monensin controlled-release capsule on the incidence of calving related disorders, fertility and milk yield in Florida Holstein transition cows. *Am. J. Vet. Res.* 67:537-543.
 20. Crane, M.B.; Bartolome, J.; **Melendez, P.**; de Vries, A.; Risco, C.; Archbald, L.F. 2006. Comparison of synchronization of ovulation with timed insemination and exogenous progesterone as therapeutic strategies for ovarian cysts in lactating dairy cows. *Theriogenology* 65: 1563-1574.
 21. Hendricks, K.; Bartolome, J.; **Melendez, P.**; Risco, C.; Archbald, L. 2006. Effect of repeated administration of PGF2a in the early postpartum period on the prevalence of clinical endometritis and probability of pregnancy at first insemination in lactating dairy cows. *Theriogenology* 65: 1454-1464.
 22. **Melendez, P.** Back, N., Lanhart, S., Donovan, A. 2006. Particle size evaluation and its association with feed intake, milk yield and chewing activity in mid-lactation

- Holstein cows. *The Bovine Practitioner* 40(1):39-45.
23. **Melendez, P.**; Gonzalez, G.; Benzaquen, M.; Risco, C.; Archbald, L. 2006. The effect of a monensin controlled-release capsule on the incidence of retained fetal membranes, milk yield and reproductive responses in Holstein cows. *Theriogenology* 66:234-241.
 24. de Vries, A.; Crane, M.B.; Bartolome, J.A.; **Melendez, P.**; Risco, C.A.; Archbald, L.F. 2006 Economic comparison of Ovsynch and exogenous progesterone as therapeutic treatments for ovarian cysts in dairy cows. *J. Dairy Sci.* 89:3028-3037.
 25. Landaeta-Hernandez, A.J.; **Melendez, P.**; Bartolomé, J.; Rae, O.D.; Archbald, L. 2006. Effect of biostimulation on the expresión of estrus in postpartum Angus cows. *Theriogenology* 66:710-716.
 26. **Melendez, P.**; Hoffer, C.C.; Donovan, G.A. 2006. Risk Factors for Udder Edema and its Association with Lactation Performance on Primiparous Holstein Cows in Florida, U.S.A. *Prev. Vet. Med.* 76:211-221.
 27. Crane, M.B.; **Melendez, P.**; Bartolome, J.; de Vries, A.; Risco, C.; Archbald, L.F. 2006. Association between milk production and treatment response of ovarian cysts in lactating dairy cows using the Ovsynch protocol. *Theriogenology* 66:1243-1248.
 28. **Melendez, P.**; Krueger, T.; White, J.; Badinga, L.; Verstegen, J.; Donovan, G.A.; Archbald, L.F. 2006. Effect of ghrelin in dry matter intake and energy metabolism in prepartum sheep: A preliminary study. *Theriogenology* 66: 1961-1968
 29. **Melendez, P.**; Gonzalez, G.; Aguilar, E.; Loera, O.; Risco, C.; Archbald, L.F. 2006. Comparison of Two Estrous Synchronization Protocols and Timed Artificial Insemination in Holstein Dairy Cattle. *J. Dairy Sci.* 89:4567-4572.
 30. **Melendez, P.**; Pinedo, P. 2007. The association between reproductive performance and milk yield in Chilean Holstein cattle. *J. Dairy Sci.* 90:184-192.
 31. **Melendez, P.**; Goff, J.P.; Risco, C.A.; Archbald, L.F.; Littell, R.; Donovan, G. A. Pre-partum monensin supplementation improves body reserves at calving and milk yield in Holstein cows dried-off with low body condition score. *Res. Vet. Sci.* (In-press)

4.3 Simposios

1. **Melendez, P.**; Donovan, A.2002. The effect of a Monensin slow-release capsule at dry-off on ketolactia and milk yield in Holstein cows. In: *Proceedings 35th Annual Convention American Association of Bovine Practitioners*, 35:196.
2. **Melendez, P.**; Risco, C.; Donovan, A. 2002. The effect of a Monensin controlled release capsule at dry-off on calving-related disorders and milk yield in Holstein cows. *J. Dairy Sci.*, 85 (Supplement 1): 1104.
3. Bartolome, J.A., Santos, J.E.P., Pancarci, S.M., **Melendez, P.**, Arteché, A., Hernandez, O., Archbald, L., Trig, T., Thatcher, W. 2002. Induction of ovulation in dairy cattle with a desorelin implant. *J. Dairy Sci.*, 85 (Supplement 1):1076.
4. Landaeta-Hernandez, A., Giangreco, M., **Melendez, P.**, Bartolome, J., Rae, O., Hernandez, J., Archbald, L. 2002. Effect of biostimulation on resumption of reproductive cyclicity and expression of oestrus in postpartum beef cows. . In: *Proceedings XXII Congress. World Association for Buiatrics* (abstract 359-319) p

114.

5. **Melendez, P.**, McHale, J., Bartolome, J., Donovan, A. 2003. The effect of PGF₂α on uterine health and milk yield in Holstein cows with acute puerperal metritis. 36th Annual Convention American Association of Bovine Practitioners (submitted).
6. **Melendez, P.**, Back, N., Lanhart, S., Donovan, A. 2003. Particle size, feed intake, milk yield and chewing activity in Holstein cows. *J. Dairy Sci.* 86 (Suppl. 1):W227 (Abstr.)
7. Bartolome, JA; Sozzi, A; McHale, J; Arteché, A; Silvestre, F; **Melendez, P**; Swift, K; Kelbert, D; Archbald, LF; Thatcher, WW. 2003. Selective re-synchronization of estrus and timed insemination in lactating dairy cows. *J. Dairy Sci.* 86 (Suppl. 1):M19 (Abstr.)
8. **Melendez, P**, McHale, J, Bartolome, J, Sozzi, A., Lanhart, S., Donovan, GA. 2003. The effect of pgf₂α at day 8 post partum on uterine involution and acute response proteins in Holstein cows with acute puerperal metritis. Tenth International Symposium on Veterinary Epidemiology and Economics. Vina del Mar, Chile.
9. Sargeant, A., Donovan, A., **Melendez, P.** 2003. Association between bovine leukemia virus infection and reproduction, milk production, and culling in first lactation Holstein cows. Tenth International Symposium on Veterinary Epidemiology and Economics. Vina del Mar, Chile.
10. **Melendez, P.**, Donovan, A. 2003. Risk factors for udder edema in primiparous Holstein cows. Tenth International Symposium on Veterinary Epidemiology and Economics. Vina del Mar, Chile.
11. Donovan, A., **Melendez, P.** 2003. Risk factors for dystocia in primiparous Holstein cows. Tenth International Symposium on Veterinary Epidemiology and Economics. Vina del Mar, Chile.
12. **Melendez, P.**, Goff, J., Risco, C., Archbald, L., Littell, R., Donovan, A. 2004. Effect of a monensin-controlled release capsule inserted at dry-off on energy status in transition Holstein cows fed typical Florida diets. American Association of Bovine Practitioners (In press).
13. **Melendez, P.**, Goff, J., Risco, C., Archbald, L., Littell, R., Donovan, A. 2004. Milk and plasma β-hydroxybutyrate concentrations in Florida Holstein transition cows supplemented with a monensin-controlled release capsule. American Association of Bovine Practitioners (In press)
14. **Melendez, P.**, Goff, J., Risco, C., Archbald, L., Littell, R., Donovan, A. 2004. Blood metabolites during the transition period of Holstein cows receiving a monensin-controlled release capsule. *J. Dairy Sci.* 87 (Suppl.1): Abs. 797.
15. **Melendez, P.**, Goff, J., Risco, C., Archbald, L., Littell, R., Donovan, A. 2004. Rumen and blood metabolites at 10 d pp in Holstein cows supplemented with monensin. *J. Dairy Sci.* 87 (Suppl.1): Abs. 798.
16. Velez, J.S.; **Melendez, P.** 2006. Bulk tank linear store somatic cell count dynamics in an organic dairy farm in Colorado from 2004 to 2005. Proceedings of the 1st IFOAM International Conference on Animals in Organic Production. August 23-25, St. Paul, Minnesota, p. 200-202

17. Pinedo, P.; Rae, D.O.; Williams J.E.; Donovan, G.A.; **Melendez, P.**; Burguelt, C. D. 2006. Analysis of the association between ELISA and nested PCR on blood and milk for *Mycobacterium avium subsp. paratuberculosis* detection in Holstein cows. 39th Annual Convention Proceedings American Association of Bovine Practitioners. Saint Paul, Minnesota, September 21-23, 2006; p: 279-280.
18. Pinedo, P.; **Melendez, P.** 2006. Bulk tank linear score somatic cell count dynamics in Central-Southern Chilean Holstain cattle from 1994 to 2004. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS3-040 (id 328).
19. **Melendez, P.**; Pinedo, P. 2006. Bulk tank analysis and reproductive performance of Central-Southern Chilean Holstain cattle from 1997 to 2004. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS3-038 (id 324).
20. **Melendez, P.**; Pinedo, P. 2006. Evaluation of bulk tank milk urea nitrogen in Central-Southern Chilean Holstain cattle from 1997 to 2004. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS1-060 (id 325).
21. **Melendez, P.**; Pinedo, P. 2006. Characterization of reproductive parameters in Central-Southern Chilean Holstain cattle from 1990 to 2004. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS3-039 (id 326).
22. Pinedo, P.; **Melendez, P.** 2006. Characterization of productive parameters in Central-Southern Chilean Holstain cattle from 1990 to 2004. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS1-059 (id 327).
23. Urdaz-Rodriguez, J; **Melendez, P.** 2006. Seroprevalence of bovine anaplasmosis and babesiosis among lactating dairy cows in major ecological zones of Puerto Rico. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS1-022 (id 387).
24. Landaeta-Hernandez, A.; **Melendez, P.**; Bartolome, J.; Rae, D.O.; Archbald, L.F. 2006. Effect of biostimulation on expression of estrus in postpartum angus cows. 24th World Buiatrics Congress. Nice, France. October 15-19, 2006. PS1-076 (id 464).
25. Urdaz, J.H.; Fosgate, G.; **Melendez, P.** 2006. Effects of Ecological Factors on the Distribution of *Boophilus microplus* larvae in Puerto Rico. 1st OIE International Conference, Use of GIS in Veterinary Activities, Silvi Marina (TE), Abruzzo, Italy, October 8-11, 2006, page 91.
26. Urdaz, J.H.; Fosgate, G.; **Melendez, P.** 2006. Risk Factors Associated with the Seroprevalence of Bovine Anaplasmosis and Babesiosis among Lactating Herds in Puerto Rico. 1st OIE International Conference, Use of GIS in Veterinary Activities, Silvi Marina (TE), Abruzzo, Italy, October 8-11, 2006, page 74.

4.4 Capitulo de Libros

1. Risco, C.A.; **Melendez, P.** 2002. Periparturient disorders. In: Encyclopedia of Dairy Science. Roginski, H., Fuquay, J., Fox, P. (Ed.) Academic Press; p: 2309-2314.
2. **Melendez, P.** Calving-related disorders. In: 5 Minute Veterinary Consult: Ruminant. Haskell, S.R.R. (Ed.) L.W.W. (Submitted).

3. **Melendez, P.** Dairy cattle feeding for milk components. In: 5 Minute Veterinary Consult: Ruminant. Haskell, S.R.R. (Ed.) L.W.W. (Submitted).
4. **Melendez, P.** Transition cow management. In: 5 Minute Veterinary Consult: Ruminant. Haskell, S.R.R. (Ed.) L.W.W. (Submitted).
5. **Melendez, P.** Weight loss: bovine. In: 5 Minute Veterinary Consult: Ruminant. Haskell, S.R.R. (Ed.) L.W.W. (Submitted).
6. **Melendez, P.** Post-parturient paresis. In: 5 Minute Veterinary Consult: Ruminant. Haskell, S.R.R. (Ed.) L.W.W. (Submitted).

4.5 Seminarios

1. **Melendez, P.** 2003. The transition period of dairy cows. Seminar 19. Management of the periparturient cow and newborn calf. American Association of Bovine Practitioners. September 17, Columbus, Ohio.
2. **Melendez, P.** 2004. Effects of monensin in transition Holstein dairy cows fed diets containing citrus pulp. Dissertation Doctor of Philosophy, University of Florida. 193 p.
3. **Melendez, P.;** Bartolome, J.; Donovan, A. 2002. Relationship between lameness, ovarian cysts and fertility in Holstein cows. In: Proceedings 12th International Symposium on Lameness in Ruminants; p:339-342.
4. Donovan, A; Risco, C; **Melendez, P.** 2002. Evaluacion del rendimiento reproductivo de rebanos lecheros. The North American Veterinary Conference. Large Anim. Vol 16: 272-274.
5. **Melendez, P.** 2002. Manejo de la Vaca Lechera en Transicion. The North American Veterinary Conference. Large Animal Vol. 16: 275-277.
6. **Melendez, P.;** Donovan, A.; Hernandez, J. 2002. Nitrogeno ureico en leche y su relacion con la fertilidad en ganado lechero. The North American Veterinary Conference. Large Animal Vol. 16: 278-279.
7. **Melendez, P.** The transition period of dairy cows. Pre-Conference Seminar 19. American Association of Bovine Practitioners, Columbus, OHIO, 2003
8. **Melendez, P.** Management of the Transition Dairy Cow. Pre-Conference. Seminar 3. American Association of Bovine Practitioners, Salt Lake City, UTAH, 2005

5. ACTIVIDAD PROFESIONAL

- 1989, Marzo-Junio : Hacienda Curacaví, Turno de noche, atención de partos, supervisor de la tercera ordeña, tratamientos, etc. Lechería de alta producción, 200 vacas Holstein.
- 1990,Febrero - Agosto: Administrador general empresa pecuaria INMELI S.A., rubro producción de bovinos de carne, ciclo completo (crianza-engorda) Crianza: fundo El Álamo, 311 Ha.de riego, comuna de Camarico, VII región. Rebaño de 300 animales (240 vientres hereford y Clavel Alemán). Engorda: fundo de 50 Ha.de riego,comuna de Quilicura, RM. engorda 140 novillos de raza Hereford, mestizos y Clavel alemán. VII región.
- Desde 1991 a 1997: Asesorías integrales (nutrición, reproducción, gestión) a planteles

de producción de bovinos de leche (5 planteles) y de carne (3 planteles) en la zona central de Chile. Visitas mensuales.

- Desde 1997 al Presente: Asesorías integrales (nutrición, reproducción y clínica) a 5 planteles lecheros (8,000 vacas) y 3 planteles de carne (3,000 vacas) en Florida, EEUU.; 1 plantel lechero orgánico, Colorado, USA (8,000 vacas); 1 plantel lechero, Georgia, USA (2,500 vacas); 1 plantel lechero (9,000 vacas; Zaragoza Hnos.) en México. Visitas misceláneas a planteles lecheros de Florida, Georgia, México y Chile.

6. MIEMBRO DE ASOCIACIONES

- American Association of Bovine Practitioners
- American Dairy Science Association
- Society for Theriogenology
- Society of Phi Zeta Upsilon Chapter
- American Veterinary Medical Association

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