

**Pascal (Toni) Oltenacu**

**Professor**

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## **EDUCATION**

| <u><b>Year</b></u> | <u><b>Degree</b></u> | <u><b>Institution</b></u>                          |
|--------------------|----------------------|----------------------------------------------------|
| 1973               | <b>Ph.D.</b>         | University of Minnesota, St. Paul, Minnesota       |
| 1970               | <b>M.S.</b>          | Iowa State University, Ames, Iowa                  |
| 1964               | <b>DVM</b>           | College of Veterinary Medicine, Bucharest, Romania |

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## Links

[Professional Experience](#)

## **PROFESSIONAL APPOINTMENTS**

| <u><b>Year</b></u>    | <u><b>Position</b></u>                                                  |
|-----------------------|-------------------------------------------------------------------------|
| Oct. 2007 – present   | <b>Professor</b> , Dept. of An. Sci., Oklahoma State University         |
| Oct. 2007 – present   | <b>Professor Emeritus</b> , Dept. of An. Sci., Cornell University       |
| Jan. 1974 – Sep. 2007 | <b>Professor</b> , Dept. of An. Sci., Cornell University                |
| Jan. 1973 – Dec. 1973 | <b>Research Associate</b> , Dept. of An. Sci., University of Minnesota  |
| Sep. 1970 – Dec. 1972 | <b>Graduate Assistant</b> , Dept. of An. Sci., University of Minnesota  |
| Sep. 1969 – Aug. 1970 | <b>Graduate Assistant</b> , Dept. of An. Sci., Iowa State University    |
| July 1967 – Aug. 1969 | <b>Scientist</b> at Zootechnical Research Institute, Bucharest, Romania |
| July 1964 – June 1967 | <b>Veterinarian</b> in large animal practice, Romania                   |

## Professional Activities

### **RESEARCH PANELS**

- Member of the Scientific Board to organize the 9<sup>th</sup> International Symposium “Prospects of agriculture and Rural areas development“ which will held on May 7 & 8, 2009, University of Agricultural Sciences and Veterinary Medicine, Bucharest, Romania.
- Member of Working Group set up by The Division on Animal Health and Animal Welfare (AHAW) of the European Food Safety Authority (EFSA) to issue a Scientific Report on the Effects of farming systems on dairy cow welfare and disease, May 2007-December 2008.
- Member of Biological Advisory Board for Pfizer, Animal Health Division. December 2002 – 2005.
- Member of the Review Panel for CALS Faculty Innovation Grant Program, Cornell University, 2000-2005.
- External examiner for PhD thesis defense (Department of Animal Science, McGill University, Montreal, Canada, October 2001 and Department of Animal Breeding and Genetics, Faculty of Veterinary Medicine and Animal Science, Swedish University of Agricultural Sciences, October 2002, November 2004)

- Member of the Committee for the design of a new curricula for Animal Science students, Universidad del Litoral, College of Agriculture and Veterinary Medicine, Santa Fe, Argentina, December, 1997.
- Member of the Animal Agriculture Task Force in support of the Office of Technology Assessment to investigate the impact of new technologies and public policies on American Agriculture, Washington, D.C, April, 1994.

## **SELECTED AWARDS**

- Honorary Member of the Romanian Academy of Agricultural and Forestry Sciences, Bucharest, Romania, December 1, 2002.
- Recipient of “Exemplary electronic courseware development” award, College of Agriculture and Life Sciences, Cornell University, March 12, 2002.
- Recipient of Research Award for distinguished contribution to the Genetic Improvement Program in Dairy Sheep, Animal Research Institute of Sicily, Palermo, Italy, December 19, 2001.
- Recipient of ADSA Merck AgVet Award for distinguished contribution in Dairy Management Research, ADSA Annual Meeting, University of Maryland, June 15, 1993.
- Recipient of RAISA Research Fellowship in Agricultural Sciences, National Council of Research, Rome, Italy, September 15, 1993.
- Recipient of Carnegie-Mellon Fellowship investigating the use of computers in education, Carnegie-Mellon University, Pittsburgh, June 15, 1986.

## **RESEARCH PUBLICATIONS:**

### **Refereed Journal Articles (2000-2008)**

1. Hultgren, J., C. Svensson, D.O. Maizon, **P.A. Oltenacu**. 2008. Rearing conditions, morbidity and breeding performance in dairy heifers in southwest Sweden. *Prev. Vet. Med.* Vol. 87:244–260.
2. van Kaam, J. B.C.H.M., R. Finocchiaro, M. Vitale<sup>1</sup>, F. Pinelli, M. Scimonelli, F. Vitale, B. Portolano, **P. A. Oltenacu**, S. Caracappa. 2008. Prion protein gene frequencies in three Sicilian dairy sheep populations. *Italian J. Anim. Sci.* Vol. 7:87-94.
3. Cienfuegos-Rivas, E.G., R.W. Blake, **P. A. Oltenacu**, and H. Castillo-Juarez. 2006. Fertility Responses of Mexican Holstein Cows to US Sire Selection. *J. Dairy Sci.* 89: 2755-2760.
4. Svensson, C., J. Hultgren, **P.A. Oltenacu**. 2006. Morbidity in 3-7 month-old dairy calves in southwestern Sweden, and risk factors for diarrhoea and respiratory disease. *Prev. Vet. Med.* Vol. 74: 162-179
5. F. Pinelli, **P.A. Oltenacu**, A. Carluci, G. Iannolino, J.P. Pollak, J. Carvalheira, A. D'Amico, A. Calbi. 2005. Efficient data acquisition and management for genetic improvement of the Comisana dairy sheep in Sicily. In “Animal production and natural resources utilization in the Mediterranean mountain areas”, Editors: A. Georgoudis, A. Rosati and C. Mosconi, Wageningen Academic Publishers, EAAP publication No. 115, pp. 242-248.

6. **Oltenacu, P.A.** and Algers, B. 2005. Selection for increased production and the welfare of dairy cows; are new breeding goals needed? *Ambio* Vol. 34 (No.4-5): 308-312.
7. Lundborg, G.K., E.C. Svenson, **P.A. Oltenacu**. 2005. Herd-level risk factors for infectious diseases in Swedish dairy calves aged 0-90 days. *Prev. Vet. Med.* Vol. 68:123-143.
8. Maizon, D.O., **P.A. Oltenacu**, Y.T. Gröhn, R.L. Strawderman and U. Emanuelson. 2004. Effects of diseases on reproductive performance measures in Swedish Red and White dairy cattle. *Prev. Vet. Med.* 66:113-126.
9. Reynoso-Campos, O., D. G. Fox, R. W. Blake, M. C. Barry, L. O. Tedeschi, C. F. Nicholson, H. M. Kaiser, and **P. A. Oltenacu**. 2004. Predicting nutritional requirements and lactation performance of dual-purpose cows using a dynamic model. *Agric. Systems* 80:67-83.
10. Lundborg, G.K., **P.A. Oltenacu**, D.O. Maizon, E.C. Svensson, P.G.A. Liberg. 2003. Dam-related effects on heart girth at birth, morbidity and growth rate from birth to 90 days of age in Swedish dairy calves. *Prev. Vet. Med.* Vol. 60:175-190.
11. Raffrenato, E., R.W. Blake, **P.A. Oltenacu**, J. Carvalheirs, and G. Licitra. 2003. Genotype by Environment Interaction for Yield and Somatic Cell Score with Alternative Environmental Definitions. *J. Dairy Sci.* 86:2470-2479.
12. Castillo-Juarez, H., **P.A. Oltenacu**, and E.G. Cienfuegos-Rivas. 2002. Genetic and Phenotypic Relationships among Milk Production, Composition Traits, and Somatic Cell Score in Primiparous Holstein Cows in Two Different Herd Environments. *Livestock Prod. Sci.* 78:223-231.
13. Iannolino, G., F. Pinelli, **P.A. Oltenacu**, M. Scimonelli, A. D'Amico, G. Romeo and A. Carlucci. 2002. Programma di Miglioramento Genetico della Razza Ovina Comisana in Sicilia. *Large Animals Review*, February 2002: Vol. 8 (1):24-31.
14. Brooks, M B., H. Castillo-Juarez, **P. A. Oltenacu**. 2001. Heritability of Plasma von Willebrand Factor Antigen Concentration in German Wirehaired Pointers. *The Veterinary Quaterly*, July 2001: *Vet Q* 23(3):126-128
15. Costa, C.N., R.W. Blake, E.J. Pollak, **P.A. Oltenacu**, R.L. Quass and S.R. Searle. 2000. Genetic Analysis of Holstein Cattle Populations in Brazil and the United States. *J. Dairy Sci.* 83:2963-2974.
16. Castillo-Juarez, H., **P.A. Oltenacu**, R.W. Blake, C.E. McCulloch and E.G. Cienfuegos-Rivas. 2000. Effect of herd environment level on the genetic and phenotypic relationship among milk yield, somatic cell score and fertility. *J. Dairy Sci.* 83:807-814.

### **Book Chapters**

1. **Oltenacu, P.A.** 2008. Health, fertility and welfare in genetically high producing dairy cows. Chapter 3.3 in: "The challenge of the farmer: raise food animals in a proper close-environment", Wageningen Academic Publishers (forthcoming).
2. **Oltenacu, P.A.**, H. Grosu, M. Paraschivescu, A. Ionescu. 2005. Genetic improvement programs for sheep. Chapter 18 in "Genetic Improvement Programs for Livestock", Editors H. Grosu and P.A. Oltenacu, Ceres Press, Bucharest, 2005 (ISBN: 973-40-0613-4).
3. Grosu, H., **P.A. Oltenacu**, A. Popa. 2005. Optimization of a selection program. Chapter 10 in "Genetic Improvement Programs for Livestock", Editors H. Grosu and P.A. Oltenacu, Ceres Press, Bucharest, 2005 (ISBN: 973-40-0613-4).

4. Grosu, H., **P.A. Oltenacu**. 2005. Methods of predicting breeding value: BLUP method. Chapter 8 in “Genetic Improvement Programs for Livestock”, Editors H. Grosu and P.A. Oltenacu, Ceres Press, Bucharest, 2005 (ISBN: 973-40-0613-4).
  5. Grosu, H., **P.A. Oltenacu**. 2005. Control of performance. Chapter 6 in “Genetic Improvement Programs for Livestock”, Editors H. Grosu and P.A. Oltenacu, Ceres Press, Bucharest, 2005 (ISBN: 973-40-0613-4).
  6. Grosu, H., **P.A. Oltenacu**. 2005. Establishing the objectives of genetic improvement programs. Chapter 4 in “Genetic Improvement Programs for Livestock”, Editors H. Grosu and P.A. Oltenacu, Ceres Press, Bucharest, 2005 (ISBN: 973-40-0613-4).
  7. Grosu, H., **P.A. Oltenacu**. 2005. Genetic improvement programs: Systems and goals. Chapter 3 in “Genetic Improvement Programs for Livestock”, Editors H. Grosu and P.A. Oltenacu, Ceres Press, Bucharest, 2005 (ISBN: 973-40-0613-4).
  8. **Oltenacu, P.A.** 1994. Dairy Cattle Production. In: Encyclopedia of Agricultural Science, Volume 1, pp. 547-557. Academic Press, Inc., 1994.
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## Teaching

ANSI 5010 - Contemporary Issues in Animal Agriculture

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## Research Interests:

- Study of genetic and phenotypic components of production-health-fertility-longevity complex in dairy cattle and other livestock to enhance animal health and welfare.
- Application of decision and risk analysis tools, mathematical modeling and computer simulation to evaluate consequences of alternative breeding, reproduction and health management strategies on production, health and welfare of dairy production systems.
- Use of computer technology to enhance educational programs in animal genetics, health and welfare.