

CURRICULUM VITA

PASCAL ANTON OLTENACU

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SUMMARY

For the past forty years, I have been active in teaching, research and outreach programs. I have taught courses in animal breeding, dairy production, wellbeing of farm animals, equine genetics, canine genetics, decision analysis, risk analysis and systems analysis. My research interests can be generalized in the following three major areas:

-) Study of genetic and phenotypic components of production-health-fertility-longevity complex in dairy cattle and other livestock to enhance animal health and wellbeing.
-) 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 and welfare of dairy production systems.
-) Use of computer technology to enhance educational programs in animal genetics, health and welfare.

I was co-author of 2 books, contributed 8 chapters in three books and was the editor of one book. I was author or co-author of 110 articles in refereed journals, 42 papers in proceedings (of which 16 were invited papers), 76 abstracts associated with oral or poster presentations at various congresses, conferences or symposia, 28 popular press articles and 8 CD-ROM or web based education programs.

I have served on several national and international committees and scientific panels, including a recent service (2009 – 2012) as a member of the Animal Health and Animal Welfare (AHAW) scientific panel of the European Food Safety Authority (EFSA).

I have received several national and international awards and, in 2002, I was elected as Honorary Member of the Romanian Academy of Agriculture and Forestry Sciences.

BACKGROUND

EDUCATION

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

PROFESSIONAL APPOINTMENTS

| <u>Year</u> | <u>Position</u> |
|-----------------------|--|
| July 2014 – present | Professor , Dept. of Animal Science, University of Florida |
| Oct. 2007 – June 2014 | Professor , Dept. of Animal Science, Oklahoma State University |
| July 2008 – July 2012 | Member Animal Health and Animal Welfare Scientific Panel, EFSA, EU |
| Oct. 2007 – present | Professor Emeritus , Dept. of Animal Science, Cornell University |
| Jan. 1974 – Sep. 2007 | Professor , Dept. of Animal Science, Cornell University |
| Jan. 1973 – Dec. 1973 | Research Associate , Dept. of Animal Science, University of Minnesota |
| Sep. 1970 – Dec. 1972 | Graduate Assistant , Dept. of Animal Science, University of Minnesota |
| Sep. 1969 – Aug. 1970 | Graduate Assistant , Dept. of Animal Science, Iowa State University |
| July 1967 – Aug. 1969 | Scientist at Zootechnical Research Institute, Bucharest, Romania |
| July 1964 – June 1967 | Veterinarian in large animal practice, Romania |

PROFESSIONAL OVERVIEW

Research objectives:

Major objectives of my research have been to quantify the environmental, management and genetic hazards on health and welfare risks and to estimate the effect of production diseases on cows' welfare and productivity for a variety of herd environments and production practices. I feel strongly that research that integrates animal health with welfare and fitness has high priority as it provides the information needed to develop decision support systems to determine the emphasis to be placed on health, welfare, fertility and longevity in the management of the dairy cows or other livestock at the farm level. This research also provides additional impetus to the ongoing transition from the classical animal health program with emphasis on clinical diagnosis and therapy to a more preventive animal health program based on risk assessment and a systems approach and increases the ability of the dairy and other livestock industries to respond to the growing concern of consumers for the health and welfare of animals.

I have been a pioneer in the use of theory and methods of decision analysis to improve the management of animal health and welfare risks. In the early part of my professional career I have made extensive use of modeling and simulation to address the need for systematic analysis of risky choices in the management of a complex biological system. When dealing with simpler and well defined problems, like early pregnancy diagnosis (yes/no) or treat/not treat cows with cystic ovaries, I used decision tree to evaluate risky choices. When attacking more complex systems, I used an HACCP-like approach to evaluate management strategies for improving reproductive performance of dairy herds or increasing the effectiveness of mastitis control programs. Hazard identification, risk assessment, use of concept maps and flow charts to describe all activities of a process and identify the critical management control points and measure the response are the key steps of this approach. It is important to note that, early in my career, I adopted a quantitative approach to obtain probability distributions for risk assessment and, using logistic regression, path analysis, survival analysis and other statistical methods, I estimated odds ratios to quantify the effect of various environmental, management or biological factors on risks of most important production disease, on failure to conceive or on risk of culling. In recent years I realized that the analysis of many important risky decisions related to animal health and welfare issues need to be carried out even if abundant and relevant data is neither available nor easily obtainable. When data are sparse or absent, a subjective approach will seek to use the best obtainable probability judgments about important uncertain variables to allow analysis to proceed, whereas the objective (or frequency based) approach can do nothing, which is surely unsatisfactory. As a 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 I had the opportunity to use mainly a subjectivist approach and realized, first hand, its power and effectiveness. As a consequence of this experience, I have been converted.

International experience:

For 30 years while a faculty at Cornell University, I have been an active member of the International Animal Agriculture program. This program was designed to provide students with better understanding of fundamental technical components of livestock systems and the tropical and subtropical farming systems of which they are a part. As a member of this program, I organized and led several student field trips in Honduras, Mexico and Sicily as components of our International Agriculture courses. More importantly, I had the opportunity and privileged to work as advisor with many young bright graduate students from all continents and many of them are now making significant contributions in their home countries as faculty members and researchers.

My long term collaboration with scientists from the Dept of Animal Environment and Health, Division of Ruminant Diseases and Epidemiology and Dept of Animal Breeding and Genetics, Faculty of Veterinary Medicine and Animal Science, Swedish University of Agricultural Sciences started in 1985 when I spent one sabbatical year in Sweden. From 1993 to 2003 I held a joint appointment in the Dept of Animal Environment and Health, spent 3 month per year in Sweden, and was intimately involved in the research and teaching program of the Department. These collaborations led to many important

publications, distance education teaching programs and several grant proposals leading to funded research projects.

From 1995 till present I have had close collaborations with Romania. In addition to direct participation in teaching and collaborative research projects, I also participated as a scientific advisor to restructuring of the research program for the Romanian Zootechnical Research Institute to modernize its research agenda and address some relevant issues associated with joining European Community. I was also intimately involved in updating the teaching program for the Department of Animal Science to address the new learning needs of the student population. For two years, I worked with Dr. Horia Grosu as editors and also contributors to produce the book "Genetic Improvement Programs for Livestock". The book is written in Romanian language and is now the basic text book for all courses in animal breeding and genetics. As recognition of my contributions, I received several awards from the Rumanian Ministry of Agriculture and, in December 2002, I was elected as Honorary Member of the Romanian Academy of Agricultural and Forestry Sciences.

My collaborations with Italian scientists started in 1993 when I received a RAISA Research Fellowship in Agricultural Sciences from the Italian National Council of Research and spent 9 months in the Department of Veterinary Sciences, Technologies and Food Safety, University of Milan. Since then, I was invited often to give seminars, participate in extension programs or held short graduate courses. In 2000, in collaboration with scientists from the Zootechnical Research Institute for Sicily and University of Palermo, a research proposal was developed and subsequently funded by an EU grant. As a consequence, from 2003 to 2006 I worked with Dr. F. Pinelli and the Zootechnical research Institute for Sicily as scientific advisor for the development and implementation of a breeding program to improve milk yield and resistance to scrapie in Comisana sheep breed.

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.

GRADUATE FIELD MEMBERSHIPS

- Animal Science
- Animal Breeding
- Epidemiology

REPRESENTATIVE PROFESSIONAL ACTIVITIES

PROFESSIONAL SOCIETIES

- American Dairy Science Society
- American Association for the Advancement of Science
- Council for Agricultural Science and Technology

PROFESSIONAL HONORARIES

- › Gamma Sigma Delta Honor Society of Agriculture
- › Honor Society of Phi Kappa Phi

EDITORIAL BOARDS

- › Reviewer for Journal of Dairy Science (1975 - present)
- › Reviewer for Journal of Animal Science (1980 - present)
- › Reviewer for Livestock Production Science (- present)

COMMITTEE ASSIGNMENTS

International/National:

- › Member of the Animal Health Committee (1995-1998), American Dairy Science Association.
- › Member (1994-1995) and Chairman (1996) of the Merck AgVet (Dairy Management) Award Committee, American Dairy Science Association.
- › 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 (1984), Washington, D.C.

University:

- › Faculty Fellow for International Living Center, 1990 to 2002.
- › Faculty Advisor for Cornell Tennis Club, 1998 to 2002.
- › Ad hoc promotion to full professor committee (6)

College:

- › CALS Physical Education Committee (1983-1986)
- › CALS Policy Committee, member (1988-1992), chairman (1993).
- › CALS Senate (2001-2005)
- › Ad hoc promotion to full professor committee (5)

RESEARCH PANELS

- › Member of the Scientific Board to organize the 13th International Symposium 13th International Symposium of Animal Biology and Nutrition, November 14, 2015, the Academy of Agricultural and Forestry Sciences, Bucharest, Romania.
- › Member of the Animal Health and Animal Welfare (AHAW) scientific panel of the European Food Safety Authority (EFSA), July 2009 – July 2012 (Panel members: Anette Bøtner, Donald Broom, Marcus Doherr, Mariano Domingo, Joerg Hartung, Linda Keeling, Frank Koenen, Simon More, David Morton, **Pascal Oltenacu**, Albert Osterhaus, Fulvio Salati, Mo Salman, Moez Sanaa, Michael Sharp, Jan Stegeman, Endre Szücs, Hans-Hermann Thulke, Philippe Vannier, John Webster, Martin Wierup).
- › Member of the Scientific Board to organize the 11th International Symposium 11th International Symposium of Animal Biology and Nutrition, November 15, 2012, the Academy of Agricultural and Forestry Sciences, Bucharest, Romania.
- › Member of the Scientific Board to organize the 9th International Symposium “Prospects of agriculture and Rural areas development“ which was 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, 2000-2002.
- External examiner for PhD thesis defense of Dr. D. Pietersma (Department of Animal Science, McGill University, Montreal, Canada, October 2001) and Dr. A. Roxström (Department of Animal Breeding and Genetics, Faculty of Veterinary Medicine and Animal Science, Swedish University of Agricultural Sciences, October 2002)
- 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.

REPRESENTATIVE PROFESSIONAL CONTRIBUTIONS

INVITED PRESENTATIONS AT CONGRESSES, CONFERENCES, SYMPOSIA (2000-2012)

1. **P.A. Oltenacu.** Welfare in dairy cattle: assessment and control strategies. “11th International Symposium of Animal Biology and Nutrition”, November 15, 2012, the Academy of Agricultural and Forestry Sciences, Bucharest, Romania.
2. **P.A. Oltenacu.** Welfare assessment of farm animal: how and why. “Animal Welfare Research and Education in an Enlarged Europe” Symposium, College of Veterinary Medicine, May 25, 2011, Timi oara, Romania.
3. **P.A. Oltenacu.** The animal welfare and derivation of sustainable breeding goals. Graduate course, May 9 - 13, 2011, Bucharest, Romania
4. **P.A. Oltenacu.** Lessons from dairy populations on the opportunity for selection to reduce the incidence of disease. Symposium on Cattle Health, Kansas City, MO, Dec. 11-12, 2007
5. **P.A. Oltenacu.** Cost of diseases in dairy cattle. Cattle Health - National Beef Cattle Evaluation Consortium, Denver, CO, September 26, 2007
6. **P.A. Oltenacu.** Health and welfare in genetically high producing dairy cows and its economical implications. 13th Congress of the International Society of Animal Hygiene, Tartu, Estonia, June 17-22, 2007.
7. **P.A. Oltenacu.** Dairy experiences in adaptability. World Dairy Expo, Madison, WI, October 12-18, 2005.
8. **P.A. Oltenacu.** Selection for increased production and adaptability in dairy cows. Beef Improvement Federation’s 37 Annual Research Symposium and Meeting, Billings, MT, July 6-9, 2005.
9. **P.A. Oltenacu.** Adaptability of modern dairy cow: longevity and genotype by environment interaction. Nutrition and Management of Dairy Cows Conference, Consorzio Ricerca Filiera Lattiero Casearia (CoRFiLaC), Ragusa, Italy, June 7-11, 2005.
10. **P.A. Oltenacu.** Epidemiological studies of several diseases, reproductive performance, and culling in dairy cattle. Nutrition and Management of Dairy Cows Conference, Consorzio Ricerca Filiera Lattiero Casearia (CoRFiLaC), Ragusa, Italy, June 7-11, 2005.
11. **P.A. Oltenacu.** Selection for milk yield and its effects on fertility and health of modern dairy cow. Nutrition and Management of Dairy Cows Conference, Consorzio Ricerca Filiera Lattiero Casearia (CoRFiLaC), Ragusa, Italy, June 7-11, 2005.

12. **P.A. Oltenacu.** Are new breeding goals needed?. Nutrition and Management of Dairy Cows Conference, Consorzio Ricerca Filiera Lattiero Casearia (CoRFiLaC), Ragusa, Italy, June 7-11, 2005.
13. **P.A. Oltenacu.** Dairy experiences in adaptability. "Adaptability symposium", Kansas City, USA, October 2004.
14. **P.A. Oltenacu.** Maximizing production; the dark side of the coin. Invited paper presented at the Food 21 Symposium "Towards Sustainable Production and Consumption", Uppsala, Sweden, April 26-28, 2004.
15. **P.A. Oltenacu.** Genetic improvement programs for dairy sheep. Invited paper presented at the Symposium "The development of dairy sheep industry in the Mediterranean region", Palermo, Italy, February 13-14, 2004.
16. **P.A. Oltenacu.** Thoughts and Innovations in Undergraduate Education in Animal Breeding. Invited paper presented at the 7th World Congress on Genetics Applied to Livestock Production, Montpellier, France, August 19-23, 2002.
17. **P.A. Oltenacu.** Developments and Implementation of Genetic Evaluation Program for Comisana Dairy Sheep in Sicily. Invited paper presented at the 1st Dairy Sheep Symposium, Palermo, Italy, December 17-18, 2002.
18. **P.A. Oltenacu.** Use of Body Condition Score in Reproductive Management in Dairy Cattle. Invited paper presented at the 4th International Seminar on Dairy Herds Management, Milan, Italy, October 20-24, 2001.
19. **P.A. Oltenacu.** Economic Cost of Diseases in Dairy Cattle. Invited paper presented at the 4th International Seminar on Dairy Herds Management, Milan, Italy, October 20-24, 2001.
20. **P.A. Oltenacu.** Sources of Reproductive Losses in Dairy Cattle. Invited paper presented at the 4th International Seminar on Dairy Herds Management, Milan, Italy, October 20-24, 2001.
21. **P.A. Oltenacu.** Does Animal Welfare Pay? The Cost of Disease. Invited paper presented at the "Foodchain 2001" International Conference, Uppsala, Sweden, March 14-16, 2001.
22. **P.A. Oltenacu.** Effect of age, stage of lactation, milk yield and health events on length of productive life in Swedish Dairy Cattle assessed by survival analysis. Invited paper presented at the 49th Annual National Breeders' Roundtable, St.Louis, MO, May 3-5, 2000.
23. F. Pinelli and **P.A. Oltenacu.** Design and Implementation of a Genetic Improvement Program for Comisana Dairy Sheep in Sicily. Invited paper presented at the 6th International Dairy Sheep Symposium, Guelph, Ontario, Canada, November 2-4, 2000.

RESEARCH PUBLICATIONS:

Refereed Journal Articles

1. Mateescu R. G., **P. A. Oltenacu**, A. J. Garmyn, G. G. Mafi, and D. L. VanOverbeke. 2015. **Strategies to predict and improve eating quality of cooked beef using carcass and meat composition traits in Angus cattle.** *J. Anim. Sci. In Press, 2015*
2. E. Raffrenato, R.W. Blake, **P.A. Oltenacu**, M. Gambina, G. Licitra. 2013. **A multilevel model with clustered management practices differentiating dairy herd environments in southeastern Sicily.** *Livestock Science*, 151(1):58-65 (2013).
3. A. Bøtner, D. Broom, M. Doherr, M. Domingo, J. Hartung, L. Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A. Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P. Vannier, J. Webster, M. Wierup. 2012. **Scientific Opinion on animal health risk mitigation treatments as regards imports of animal casings.** *EFSA Journal* 2012;10(7):2820 [32 pp.].

4. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Scientific Opinion on the use of animal-based measures to assess welfare of broilers**. EFSA Journal 2012;10(7):2774 [74 pp.].
5. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Statement on the use of animal-based measures to assess the welfare of animals**. EFSA Journal 2012;10(6):2767 [29 pp.].
6. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Scientific Opinion on the electrical requirements for waterbath stunning equipment applicable for poultry**. EFSA Journal 2012;10(6):2757 [80 pp.].
7. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Scientific Opinion on the public health hazards to be covered by inspection of meat (poultry)**. EFSA Journal 2012;10 (6):2741 [179 pp.].
8. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Scientific Opinion on the welfare of cattle kept for beef production and the welfare in intensive calf farming systems**. EFSA Journal 2012;10(5):2669 [166 pp.].
9. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Scientific Opinion on the use of animal-based measures to assess welfare of dairy cows**. 2012. EFSA Journal; 10(1):2554 [81 pp.]. Abstract published: 25 January 2012
10. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Scientific Opinion on the use of animal-based measures to assess welfare in pigs**. EFSA Journal 2012; 10(1):2512 [85 pp.].
11. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Guidance on the risk assessment of food and feed from genetically modified animals and on animal health and welfare aspects**. EFSA Journal; 10(1):2501 [43 pp.].
12. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2012. **Guidance on Risk Assessment for Animal Welfare**. EFSA Journal; 10(1):2513 [30 pp.].
13. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2011. **Scientific Opinion on the public health hazards to be covered by inspection of meat (swine)**. EFSA Journal; 9(10):2351 [198 pp.].
14. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E.

- Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2011. **Scientific Opinion on Epizootic Ulcerative Syndrome**. EFSA Journal; 9(10):2387 [58 pp.].
15. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2011. **Scientific Opinion on Hatchery Waste as animal by-products**. EFSA Journal; 9(7):2321 [35 pp.].
 16. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2011. **Scientific Opinion on bluetongue serotype 8**. EFSA Journal; 9(5):2189 [51 pp.].
 17. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. 2011. **Scientific Opinion on monitoring for the emergence of possible new pandemic strains of influenza in animals**. EFSA Journal; 9(3):2109 [36 pp.].
 18. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. **2011. Scientific Opinion Concerning the Welfare of Animals during Transport**. EFSA Journal 9(1):1966 (68 pp).
 19. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. **2010. Scientific Opinion on the practice of harvesting (collecting) feathers from live geese for down production**. EFSA Journal 8(11):1886 (57 pp).
 20. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. **2010. Scientific Opinion on the increased mortality events in Pacific oysters, Crassostrea gigas**. EFSA Journal 8(11):1894 (60 pp).
 21. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. **2010. Scientific Opinion on the pandemic (H1N1) 2009 influenza and its potential implications for animal health**. EFSA Journal 8(10):1770 (57 pp).
 22. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. **2010. Scientific Opinion on Geographic Distribution of Tick-borne Infections and their Vectors in Europe and the other Regions of the Mediterranean Basin**. EFSA Journal 8(9):1723 (280 pp).
 23. A. Bøtner, D. Broom, M. Doherr, M.Domingo, J. Hartung, L.Keeling, F. Koenen, S. More, D. Morton, **P. Oltenacu**, A.Osterhaus, F. Salati, M. Salman, M. Sanaa, M. Sharp, J. Stegeman, E. Szücs, H. Thulke, P.Vannier, J.Webster, M. Wierup. **2010. Scientific Opinion on the Role of Tick Vectors in the Epidemiology of Crimean-Congo Hemorrhagic Fever and African swine fever in Eurasia**. EFSA Journal 8(8):1703 (156 pp).
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5. Thonney, M.L., E.K. Heide, D.J. Duhaime, A.Y. Nour, and **P.A. Oltenacu.** 1981. Changes in growth rate and feed efficiency at heavy weights. Cornell Beef Cattle Research, pp. 23-24.
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16. Williams, C.B., **P.A. Oltenacu,** and C.A. Bratton. 1985. Correlation analysis of dairy practices and management factors on New York dairy farms. Ag. Economics Publication, A.E. Res. 85-3, March 1985, pp. 1-65.
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23. Blake, R.W., F.J. Holmann, T.L. Stanton, and **P.A. Oltenacu**. 1988. Strategies for genetic improvement in the physical and economic context of tropical environments. Present at the International Conference, "Strategies and Systems of Bovine Improvement in the Tropics", sponsored by the Centro Agronomico Tropical de Investigacion y Ensenanza at Guatemala City, Guatemala, September 19-24. pp. 1-27.
24. Strandberg, E., and **P.A. Oltenacu**. 1989. Economic consequences of different times of conception. A simulation study. Report #82, Dept. of Animal Breeding and Genetics, Swedish Univ. of Agric. Sciences, S-75007, Uppsala, Sweden.
25. **Oltenacu, P.A.** 1989. The economics of preventive medicine, including considerations for culling. Veterinary Extension: Dairy Production Medicine Workshop. NY State College of Vet. Med., Cornell University, October 6, 10 pp.
26. **Oltenacu, P.A.** 1990. Risk of diseases and projected financial losses. Economics of disease prevention. A modeling approach. Dept. of Clinical Sciences, Vet. College, Cornell University; Dairy Records Workshop, April 23, 15 pp.
27. **Oltenacu, P.A.**, and J.D. Ferguson. 1990. A data-driven expert system to diagnose and recommend solutions to reproductive management problems in dairy herds. Dairy Extension Agents Workshop, Holiday Inn, Ithaca, NY, September 4, 18 pp.
28. **Oltenacu, P.A.**, J.D. Ferguson, and M.C. Barry. 1991. Evaluation of herd reproduction using DHI records. DHIA Records Specialist Seminar, Sheraton Inn, Ithaca, NY, March 13-14, 12 pp.

Conferences/workshops/in-service participation (last 10 years):

- Presented issues related to decline of adaptability in dairy cattle. (~ 50 participants) World Dairy Expo, Madison, WI, October 12-18, 2005.
- Presented issues related to selection for increased production and adaptability in dairy cows. (~ 70 participants) Beef Improvement Federation's 37 Annual Research Symposium and Meeting, Billings, MT, July 6-9, 2005.
- Discuss issues related to consequences of selection for high production on health, fertility and longevity of modern dairy cow. (~ 100 participants) Nutrition and Management of Dairy Cows Conference, Consorzio Ricerca Filiera Lattiero Casearia (CoRFiLaC), Ragusa, Italy, June 7-11, 2005.
- Discuss issues related to selection for increased production and its effect on adaptability in dairy cattle to a group of beef cattle researchers and producers (70 participants), Adaptability workshop sponsored by National Beef Cattle Evaluation Consortium, Kansas City, KA. October 7-9, 2004.
- Conducted a four weeks workshop on "Statistical methods for experimental and field data" for graduate students and researchers (25 participants), Consorzio Ricerca Filiera Lattiero-Casaria, Ragusa, Sicily, Italy, June 2002.
- Contributed three presentations in the 4th Workshop on Dairy Herds Management organized by S.A.T.A (Office of Technical Assistance, Holstein Breed Association of Italy), Milan, Italy, October 20-24, 2002.

Refereed computer programs:

- Johnson, P.J., **P.A. Oltenacu**, and J.D. Ferguson. 1991. Dairy cattle: Estrus detection. A three-part interactive tutorial designed to optimize estrus detection program in dairy herds: 1) Detecting estrus

signs; 2) Designing an estrus detection program; 3) Case study review. Wisc-Ware Academic Computer Center, Package No. 364.

- Johnson, P.J., **P.A. Oltenacu**, A.J. Lednor, and J.D. Ferguson. 1991. Dairy cattle: Use-of-records. An interactive program presenting problem-solving strategies to analyze herd reproduction records. Wisc-Ware Academic Computer Center, Package No. 375.
- Johnson, P.J., **P.A. Oltenacu**, and J.D. Ferguson. 1991. Dairy cattle: Repro-Measures. An interactive program which addresses six common measures of herd reproductive performance. Wisc-Ware Academic Computer Center, Package No. 376.

Extension and education CD-ROM or web based programs:

- GENETICS FOR A NEW GENERATION (**Pascal Oltenacu**, Tammy Tobin-Janzen, David Way, Linda Poppleton, Yamini Raman). 2003. This Internet-based educational resource on genetics was designed to expose university undergraduates and the general population to the basic genetics concepts and principles. By presenting basic genetics principles in a simple and concise manner and at a level accessible to the general public, our web site provides a large segment of the student population and the general public with the opportunity to become participants in the genetics revolution. The web site also satisfies a need for access to basic genetics information (a genetic primer) that has been expressed by many students taking continuing education courses in Canine Genetics or Feline Genetics. The web site also satisfies the need of someone who lacks formal training in genetics but would like to know something about cloning, genome mapping, transgenic animals, or gene therapy.
- ANIMAL WELFARE (L. Keeling, B. Algers, **P.A. Oltenacu**). 2001. The program has 5 modules and is used by the Department of Animal Health and Environment, Swedish University of Agriculture in a course for Animal Welfare inspectors as well as additional educational material for traditional and non-traditional students enrolled in Animal Behavior courses.
- PRE-SLAUGHTER HANDLING OF PIGS (A. Algers, G. Malmfors, H. Schraft, **P.A. Oltenacu** and J. Karonen). 2001. The program has seven modules: Handling procedures, legislation, Behavior, physiology, animal welfare, meat quality, and meat hygiene. It is intended to be a useful educational resource for students in food science, food industry personnel and interested consumer.
- REPRODUCTIVE BIOTECHNOLOGIES (**P.A. Oltenacu** and R.H. Foote). 1999. The program discusses many of the technologies, from AI to MOET to cloning, focusing on their impact on improving reproductive performance, genetic improvement and conservation.
- BODY CONDITION SCORING IN DAIRY CATTLE (W. Heuwieser, **P.A. Oltenacu** and A. Skoll). 1996. The program teaches how to evaluate body condition as well as how to use that information in herd management.
- LEARN-REPRO (P. Johnson and **P.A. Oltenacu**). 1994. A computer-teaching program for undergraduate students and dairy professionals.