

## ***CURRICULUM VITAE***

**Name:** **GEORGE ZERVAS**

**Date of birth:** 20.02.51

**Nationality:** Greek

**Marital status:** Married

**Position:** Em.Professor on Animal Nutrition

  

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**Languages:** Greek and English

### **Academic Training**

- October 1969 - September 1974: Agricultural University of Athens
- September 1980 - July 1983: Dept of Animal Physiology and Nutrition, Leeds University, U.K. Ph.D. Thesis: The prevention of copper deficiency in ruminants by means of soluble glass rumen bullets.
- June 1986 - July 1986: University of Leipzig, Germany
- August 1990: Rowett Research Institute, Aberdeen of Scotland, U.K.

## **Professional Career**

1969 - 1974	Agricultural University of Athens Specialization on Animal Sciences
1974 -1977	National service (officer at the Quarters Head of the Greek National Air Force)
1978 - 1980	Research Fellow at the Department of Nutritional Physiology and Feeding at the Agricultural University of Athens
1980 - 1983	Post graduate studies in the U.K., Ph.D. in Ruminant Nutrition at the Department of Animal Physiology and Nutrition of Leeds University, U.K.
1983 - 1989	Lecturer in the Department of Nutritional Physiology and Feeding at the Agricultural University of Athens
1989 - 1996	Senior Lecturer in the above Dept.
1996 – 2001	Assoc. Professor in the above Dept.
2001 - 2018	Professor in the above Dept. Head of the Department of Nutritional Physiology & Feeding
2003 - 2004	Head of the Faculty of Animal Sciences and Aquaculture
2004 - 2010	Rector of the Agricultural University of Athens
1992 - 2020	Secretary (1992-2008) and President (2008 - 2020) of the Hellenic Society of Animal Production
2011 - 2022	Secretary (2011-2015), Vice President (2015-2018) and President (2018- 2022 ) of the Hellenic Agricultural Academy

## **Scientific Society Membership**

- Nutrition Society (U.K)
- European Association for Animal Production
- British Society of Animal Science
- Hellenic Society of Animal Production
- Hellenic Geotechnical Society

## **Teaching**

Lectures and practical classes to 3<sup>rd</sup> and 4<sup>th</sup> year students. Runs final year research projects. Lectures to MSc Students of the Animal Science Faculty. Subjects taught are principally related to farm animal physiology and nutrition with special emphasis on growth, lactation, mineral and ruminant (cattle, sheep and goats) nutrition. Supervisor of Ph.D. students.

## **Research**

Trace element supply to ruminant animals. Mineral bioavailability studies. Dietary evaluation of different agroindustrial by-products. Nutritive value determination of different feedstuffs fed to ruminant and monogastric animals. Feedstuffs technology. Energy and protein requirements of small ruminants kept on pasture. Study of different feeding systems of ruminant animals in Greece. Effect of different diets to milk yield and milk quality. Effect of plane of nutrition on reproductive performance of sheep. Organic farming of ruminants. Production systems of ruminants and their effect on climate change. Effect of different diets to milk fatty acid profile of sheep and goats. Differences between sheep – goats on genes related to fatty acids metabolism. Effect of dietary treatments on enzymes' activities related to oxidation in sheep and goats. Differences between sheep – goats on gene expression under different feeding regimes.

## **Other activities**

- Participation in a number of international meetings and symposia as invited speaker and presentation of own research work results
- Evaluator of research proposals funded by the Greek Research Council, the Greek Ministry of Agriculture etc.
- Participation in educational programmes such as Erasmus, Tempus (EU, funded), the Greek Ministry of Education and the British Council
- Participation in EU funded research programmes (shared cost and concerted action projects), programmes of the Greek Ministry of Agriculture, the Greek National Research Council and the private sector.

- Section Editor (Nutrition) of Livestock Science and Animal Science Review Journals.
- Scientific reviewer of papers in international and national journals e.g. Animal Science, Small Ruminant Research Animal, Animal Feed Science & Technology, Livestock Science, Animal Science Review (in Greek), Geotechnica (in Greek) etc.
- Member of the Standing Group for the sheep and goat meat in EU.
- Participation in many National and International Symposia and Meetings.
- President of the Committee on Animal Nutrition and Feedstuffs of the Greek Ministry of Agriculture.
- Actively involved these past 40 years with the activities of the European Association of Animal Production:
  - Secretary of the Nutrition Commission of EAAP (2002 - 2004).
  - Vice-President of the Livestock Farming Systems Commission of EAAP (2005- 2006).
  - President of the Livestock Farming Systems Commission of EAAP (2006 - 2008) and Vice President of the EAAP Council (2008 - 2012).
  - Auditor of the EAAP (2013 – 2018).
  - Greek member of the Animal Nutrition Commission (attended most of the Annual Meetings since 1984).
  - Member of the Working Group on Higher Education.
  - Member of the Scientific Committee of the Mediterranean Working Group.
  - President of the Hellenic Society of Animal Production ( 2008-2020).
  - Gen. Secretary of the Hellenic Agricultural Academy ( 2011-2015) and President ( 2018-2022).
- Research project evaluation for the: FCT (Fundacao parta a Ciencia e a Tecnologia), Portugal 2014 and 2018 and: FUNDAZIONI IN RETE Per La Ricerca Agroalimentare, Italy, 2018.
- Research project evaluation for the Fondazione CARIPLO, Milan, Italy, 2018

- Ph.D. Thesis evaluator (Externar Examiner) in Norwegian University of Life Sciences (2009 and 2016), and Italy
- He has published a great number of articles in Magazines and Newspapers on Agriculture and Animal Production.

## **Patents**

### **TELFER, S.B., ZERVAS, G. and KNOTT, P. (1982)**

Water soluble glass articles, their manufacture and their use in the treatment of ruminant animals. Patent GB2 116 424 1986, and also filed in Australia, Greece, Mexico, The Netherlands, Belgium, Denmark, Venezuela, N. Zealand, Italy, S. Korea, U.S.A, Japan, S. Africa, India, Ireland, Germany, France, Spain, Canada, Taiwan, Chech Republic and Slovakia.

## **AWARDS**

- a. From the Municipality of Kranidi Argolidos (2006)
- b. From the European Association for Animal Production the ‘Distinguished Service Award-2018’, August 2018, Dubrovnic of Croatia
- c. From the Husbandry Department of the Thessaly University of Greece, November 2021, Larisa of Greece
- d. From the Hellenic Society of Animal Production, October 2022, Agrinio of Greece
- e. From the Agricultural University of Athens, March 2023, Athens

## **Research Programmes**

1. Magnesium bioavailability determination from different types of calcined magnesites of Greek origin
2. Dietary evaluation of olive tree leaves fed to ruminants
3. Effect of dietary added fat on, the energy metabolism of ewes, during the periparturient period

4. Diversification et Reorganisation des Activities Productives Liees a l' Elevage Dans les Zones Defavorisees (Chared cost, FAIR3 - CT96 - 1893)
5. Animal production systems for rural development in disadvantaged areas (Concerted Action of the IV Frame Work Program)
6. Effects of soil infiltration on welfare of sheep (National Agricultural Research Foundation).
7. Rural development of mountainous Messinia prefecture of Greece
8. Stocking rates determination of a mountainous grazing land in Arta prefecture of Greece.
9. Development of a Competitive Exclusion Product for Poultry Meeting the Regulatory Requirements in the European Union (EU – CRAFT – Project QLKS – 2002 -71662).
10. Effectiveness of Hy-D product in pigs.
11. The use of plant extracts in feeding of dairy ruminants in order to produce biofunctional products.
12. Determination of grazing capacity of Greek grasslands at different regions of the country (Ikaria, Crete, Rhodes, Arcadia, Epirus etc.).
13. Evaluation of feed additives (TIMET, MECOVIT) for small ruminants.
14. Evaluation of MetaSmart and LysiGEM in dairy sheep. Funding source: KEMIN.
15. Determination of Mg availability of different types of magnesium oxides to sheep. Funding source: TERNAMAG.
16. Use of some plants extracts in dairy ruminant diets for functional products (17/01/05 - 17/07/05). Funding source: Secretary of Research and Development.
17. Evaluation of Ikaria Island grassland grazed by small ruminants (16/01/06- 16/07/06). Funding source: Ministry of Rural Development and Food.
18. Development of a financial viable procedure LIFE 03 ENV/GR/000223 (2/05/06- 31/09/06). Funding source: European Union.

19. Effect of nutrition on chemical and organoleptic characteristics of sheep and goat milk of organic farming systems (1/02/08-31/03/08). Funding source: Ministry of Rural Development and Food.
20. Determination of additional cost, lost income and farmers cost from agroenvironmental measures application (1/02/08- 31/09/08). Funding source: Ministry of Rural Development and Food.
21. Reorganization of agricultural activities in Falesia Prefecture (3/03/09- 31/12/10). Funding source: Falesia Prefecture.
22. New techniques for organically produced feedstuffs (1/01/12 - 31/03/12). Funding source: Agricultural co-operative of Agrinio Prefecture.
23. Evaluation of mycotoxins binders for poultry (1/02/12-31/12/14). Funding source: S&B Industrial Minerals SA.
24. Scientific support and advice to Sheep-Goat and dairy cows farmers of DODONI and DELTA dairies of Greece respectively. Funding source: DODONI and DELTA.
25. Development of animal production and promotion of animal origin products in Peloponnesos Prefecture (1/07/14-1/12/14). Funding source: Peloponnesos Prefecture.
26. LIFE 2016. Food for Feed: An Innovative process for transforming hotels food wastes into animal feed. (LIFE15ENV/GR/000257).
27. LIFE 2016. Forage systems for less green house gas emission and more soil carbon sink in continental and Mediterranean agricultural areas. (LIFE 15CCM/IT/000039).
28. Effect of natural and artificial suckling of lambs in their carcass quality (1/02/15 έως 30/11/15). Funding source: Ministry of Rural Development and Food.

29. The effect of Sparta INNOLIVE (a by-product from olive production) inclusion on broilers diets on some biochemical and performances parameters (26/05/15-31/03/16).
30. Recharging Greek Youth to revitalize the agriculture and feed sector of the Greek economy. New Agriculture for a new generation (2018). Funding source: NIARCHOS Foundation.
31. EU2018. Upgrading and implementing mathematical models to increase nitrogen use efficiency of lactating dairy cows. Project 777974 – CowficieNcy. RISE Proposal.
32. DISARM-2018. Disseminating Innovative Solutions for Antibiotics Resistance Management-HORISON 2020. Funding source EU.
33. Impact of the Yeast Probiotic ACTISAF on transition period and milk production of dairy ewes. Private Sector, 2019.
34. Impact of the feed additives ActiSaf, SelSaf and SafMannan on dairy ewes performance and immunity. Private Sector, 2021.
35. Welfare determination in dairy sheep. EPIROS DAIRY COMPANY, 2021 – 2022.
36. Crop cultivation for high protein feeds. DELTA FOODS COMPANY, 2022 – 2023.

### **Selected International and National Meetings**

1. U.K Nutrition Society - Nottingham, Great Britain, January 1981.
2. U.K Nutrition Society - Aberdeen, Great Britain, March 1981
3. British Society of Animal Production - Harrogate, Great Britain, March 1982
4. British Society of Animal Production and British Veterinary Association York, Great Britain, July 1982



5. British Society of Animal Production - Scarborough, Great Britain, March 1983
6. U.K Nutrition Society (TEMA-5) - Aberdeen, Great Britain, July 1984
7. Biochemical Society - Leeds, Great Britain, July 1984
8. 35<sup>th</sup> Annual Meeting of the European Association of Animal Production, Hague, Netherlands, August 1984
9. Annual Meeting of the Hellenic Society of Animal Production, Yannena, Greece, September 1984
10. Hellenic Society of Veterinary and Medicine, Corfu, Greece, September 1984
11. 36<sup>th</sup> Annual Meeting of the European Association of Animal Production, Halkidiki, Greece, October 1985
12. 5<sup>th</sup> International Symposium on Iodine and other trace elements, Jena (GDR), July 1986
13. Annual Meeting of the Hellenic Society of Animal Production, Thessaloniki, Greece, September 1986
14. 37<sup>th</sup> Annual Meeting of the European Association for Animal Production, Budapest, Hungary, 1986
15. 6<sup>th</sup> International Symposium on Trace Elements in Man and Animals (TEMA-6), California, U.S.A. 1987
16. Annual Meeting of the Hellenic Society of Animal Production, Patra, Greece, November 1987
17. 38<sup>th</sup> Annual Meeting of the European Association for Animal Production, Lisbon, Portugal, September 1987
18. Meeting on Genetics of the Hellenic Society of Animal Production, Athens, Greece, March 1989

- 19.40<sup>th</sup> Annual Meeting of the European Association for Animal production, Dublin, Ireland, August 1989
- 20.7<sup>th</sup> International Symposium on Trace Elements in Man and Animals (TEMA-7), Dubrovnik, Yugoslavia, May 1990
21. Annual Meeting of the Hellenic Society of Animal Production, Volos, Greece, November 1991
- 22.43<sup>rd</sup> Annual Meeting of the European Association for Animal Production, Madrid, Spain, September 1992
23. Annual Meeting of the Hellenic Society of Animal Production, Athens, Greece, 1992
- 24.44<sup>th</sup> Annual Meeting of the European Association for Animal Production, Aarhus, Denmark, August 1993
25. FAO-CIHEAM-EC Meeting on Sheep and Goat Nutrition, Thessaloniki, Greece, September 1993
26. EC Meeting on Grazing Systems for Semi-natural Vegetation and Marginal Land, Aberdeen, Scotland, October 1993
27. EC Meeting on Anaerobic Fungi and their Role in the Nutrition of Extensively-Fed Ruminants, Dalfsen, Netherlands, October 1993
28. Annual Meeting of the Hellenic Society of Animal Production, Florina, Greece, November 1993
29. International Symposium on the optimal exploitation of marginal Mediterranean areas by extensive ruminant production systems. Thessaloniki, Greece, June 1994.
- 30.3<sup>rd</sup> International Livestock Farming Systems Symposium. Aberdeen, Scotland, August 1994.
- 31.45<sup>th</sup> Annual Meeting of the European Association for Animal Production, Edinburgh, Scotland, September 1994.

32. Annual Meeting of the Hellenic Society of Animal Production, Larissa, Greece, October 1995.
33. 5<sup>th</sup> International Workshop of the European Fine Fibre Network, Biella, Italy, October 1995.
34. 47<sup>th</sup> Annual Meeting of the European Association for Animal Production, Lillehammer, Norway, August 1996.
35. 5<sup>th</sup> Conference of the European Forum on Nature Conservation and Pastoralism. Cogne, Italy, September, 1996.
36. Annual Meeting of the Hellenic Society of Animal production, Lamia, Greece, October 1996.
37. First European Conference on Livestock Systems in Rural Development in Disadvantaged areas, Nafplio, Greece, January 1997.
38. 48<sup>th</sup> Annual Meeting of the European Association for Animal Production, Vienna, Austria, August 1997.
39. Annual Meeting of the Hellenic Society of Animal Production, Olymbia, Greece, October 1997.
40. VII International Congress of Ecology, Florence, Italy, July 1988.
41. 49<sup>th</sup> Annual Meeting of the European Association for Animal Production, Warsaw, Poland, August 1998.
42. VI<sup>th</sup> International Symposium on the Milking of Small Ruminants, Athens, Greece, September 1998.
43. International Symposium on Livestock Production and Climatic Uncertainty in the Mediterranean. Agadir, Morocco, October 1998.
44. Annual Meeting of the Hellenic Society of Animal Production, Arta, Greece, November 1998.

45. 50<sup>th</sup> Annual Meeting of the European Association for Animal Production Zurich, Switzerland, 1999.
46. 5<sup>th</sup> International Symposium on Livestock Farming Systems, Friburgh, Switzerland, 1999.
47. 8<sup>th</sup> International Symposium on Protein Metabolism and Nutrition, Aberdeen, Scotland, 1999.
48. 15<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Chania, Greece, November 1999.
49. ELPEN Workshop on European Classification of Dairy Systems in Europe, Madrid, Spain, July 2000.
50. 51<sup>st</sup> Annual Meeting of the European Association for Animal Production Hague of the Netherlands, August 2000.
51. International Symposium on Prospects for a Sustainable Dairy Sector in the Mediterranean, Hammamet, Tunisia, October 2000.
52. 16<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Kalamata, Greece, October 2000.
53. Environmental Implications of the EU Sheep and Goat Meat Sector, Brussels, January 2001.
54. Workshop of the PASTORAL Project on the agricultural, ecological and socio-economic importance of free-ranging livestock systems. Soto del Real, Madrid, Spain, 2001.
55. Livestock Farming Systems in the Central and Eastern European Countries. Workshop Satellite to the 52<sup>nd</sup> EAAP Annual Meeting, Budapest, Hungary, 2001.
56. 52<sup>nd</sup> Annual Meeting of the European Association for animal Production, Budapest, Hungary, 2001.
57. 17<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Drama, Greece, May 2001.

58. International Symposium on Organic Meat and Milk from Ruminants, Athens, October 2001.
59. 53<sup>rd</sup> Annual Meeting of the European Association for Animal Production, Cairo, Egypt 2002.
60. 18<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Ioannina, Greece, June 2002.
61. 6<sup>th</sup> International Symposium on Livestock Farming Systems, Benevento, Italy, August 2003.
62. International Symposium on Animal Production and Natural Resources Utilization in the Mediterranean Mountain Areas, June 2003, Ioannina, Greece.
63. 54<sup>th</sup> Annual meeting of the European Association of Animal Production, Roma, Italy, August 2003.
64. 19<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Karditsa, Greece, October 2003.
65. World Congress on Animal Science, Porto Alegre, Brazil, October 2003.
66. 55<sup>th</sup> Annual meeting of the European Association of Animal Production, Bled, Slovenia, September 2004.
67. 20<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Tripoli, Greece, October 2004.
68. 56<sup>th</sup> Annual Meeting of the European Assoc. of Animal Production, Uppsala, Sweden, June 2005.
69. 6<sup>th</sup> Intern. Sheep Veterinary Congress. Crete of Greece, June 2005.
70. Intern. Symposium on Comparative Advantages for Typical Animal Products from Mediterranean Area. Fonte Boa of Portugal, September 2005.
71. 21<sup>st</sup> Annual Meeting of the Hellenic Society of Animal Production, Veria, October 2005.

72. 57<sup>th</sup> Annual Meeting of the European Assoc. of Animal Production, Antalya, Turkey, September 2006.
73. 22<sup>nd</sup> Annual Meeting of the Hellenic Society of Animal Production, Sparti, October 2006
74. 58<sup>th</sup> Annual Meeting of the European Assoc. of Animal Production, Dublin, Ireland, August 2007.
75. 23<sup>rd</sup> Annual Meeting of the Hellenic Society of Animal Production, Volos, October 2007.
76. 12<sup>th</sup> Symposium of the FAO-CIHEAM Sub-Network on sheep and Goat Nutrition (Nutritional and foraging ecology of sheep and goats). Thessaloniki, Greece, October 2007).
77. Annual Meeting of the British Society of Animal Science, Scarborough, UK, March 2008.
78. 1<sup>st</sup> Pan-Hellenic Symposium of Veterinarians on farm animals; hygiene, safety of animal origin food and consumer protection. Athens, March 2008.
79. 59<sup>th</sup> Annual Meeting of the European Assoc. of Animal Production, Vilnius, Lithuania, August 2008.
80. 24<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Arta October 2008.
81. 60<sup>th</sup> Annual Meeting of the European Association of Animal Production, Barcelona, Spain, August 2009.
82. 25<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Nafplio October 2009.
83. 61<sup>st</sup> Annual Meeting of the European Association of Animal Production, Heraklion, Crete, Greece, August 2010.
84. IDF: International Symposium on Sheep, Goat and other non-cow milk. Athens, Greece, May 2011.

85. 62<sup>nd</sup> Annual Meeting of the European Association of Animal Production, Stavanger, Norway, August 2011.
86. 26<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Science, Chalkida, Greece, October 2011.
87. 63<sup>rd</sup> Annual Meeting of the European Association of Animal Production, Bratislava, Slovakia, August 2012.
88. 27<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Science, Trikala, Greece, October 2012.
89. 64<sup>th</sup> Annual Meeting of the European Association for Animal Production, Nantes of France, August 2013.
90. 28<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Science, Florina, Greece, October 2013.
91. 65<sup>th</sup> Annual Meeting of the European Association for Animal Production, Copenhagen of Denmark, August 2014.
92. 29<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Science, Kyparissia, Greece, October 2014.
93. 66<sup>th</sup> Annual Meeting of the European Association for Animal Production, Warsaw, Poland, August 2015.
94. 30<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Science, Giannitsa, Greece, October 2015.
95. 67<sup>th</sup> Annual Meeting of the European Association for Animal Production, Belfast, Great Britain, August 2016.
96. 31<sup>st</sup> Annual Meeting of the Hellenic Society of Animal Science, Serres, Greece, October 2016.
97. 20<sup>th</sup> Annual Conference of the European Society for Domestic Animal Production (ESPAK) – 13<sup>th</sup> Conference of the Spanish Association for Animal Production, Lisbon, Portugal, October 2016,

98. 68<sup>th</sup> Annual Meeting of the European Association for Animal Production, Tallin, Estonia, August 2017.
99. 32<sup>nd</sup> Annual Meeting of the Hellenic Society of Animal Science, Larissa, Greece, October 2017.
100. 69<sup>th</sup> Annual Meeting of the European Association for Animal Production, Dubrovnik, Croatia, August 2018.
101. 33<sup>rd</sup> Annual Meeting of the Hellenic Society of Animal Science, Preveza, Greece, October 2018.
102. 70<sup>th</sup> Annual Meeting of the European Association for Animal Production, Ghent, Belgium, August 2019
103. 34<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Science, Volos, October 2019
104. 71<sup>st</sup> Annual Meeting of the European Association for Animal Production, Porto of Portugal, December 2020.
105. 72<sup>nd</sup> Annual Meeting of the European Association for Animal Production, Davos of Switzerland, August 2021.
106. 35<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Athens, October 2021
107. 36<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Agrinio, October 2022

## **PUBLICATIONS**

1. **TELFER, S.B. and ZERVAS, G. 1982.** The release of copper from soluble glass bullets in the reticulorumen of sheep. *Animal Production* 34 (3): 379-380.



2. **TELFER, S.B., ZERVAS, G. AND KNOTT, P. 1983.** Water soluble glass articles, their manufacture and their use in the treatment of ruminant animals. *U.K. Patent Appl. 2116424 A.*
3. **ZERVAS, G. 1983.** The prevention of copper deficiency in ruminants by means of soluble glass rumen bullets. Ph.D. thesis, University of Leeds, Department of Animal Physiology and Nutrition, U.K. pp. 283.
4. **TELFER, S.B., ZERVAS, G. 1984.** The effect of tracer glass-L on the copper, cobalt and selenium status of lambs. *Animal Production 38 (3): 561.*
5. **TELFER, S.B., ZERVAS, G. and CARLOS, G. 1984.** Curing or preventing deficiencies in copper, cobalt and selenium in cattle and sheep using tracerglass. *Canadian Journal of Animal Science. 64: 234-235.*
6. **TELFER, S.B., ILLINGWORTH, D., ANDERSON, P., ZERVAS, G. and CARLOS, G. 1984.** Effect of soluble glass boluses on the copper, cobalt and selenium status of sheep. *609<sup>th</sup> meeting of the Biochemical Society, Leeds, U.K. 1984. Abstracts, pp. 529.*
7. **ZERVAS, G. and TELFER, S.B. 1984.** Treatment of Cu deficiency in sheep by means of soluble glass boluses. *4<sup>th</sup> Annual Meeting of the Hellenic Society of Animal Production, Yannena of Greece, 1984.*
8. **TELFER, S.B., ZERVAS, G. and CARLOS, G., LINKLATER, K.A. and WAIN, B. 1984.** The effect of soluble glass boluses containing Cu, Co and Se on some blood parameters of calves. *3<sup>rd</sup> Meeting of the Hellenic Veterinary Medical Society. Corfu of Greece, 1984.*
9. **KNOTT, P., ALGAR, B., ZERVAS, G. and TELFER, S.B. 1985.** Glass - a medium for providing animals with supplementary trace elements. In: *Trace Elements in Man and Animals (TEMA-5) ed. Mills, C.F., Bremner, I. and Chesters, J.K. pp. 708-714. Commonwealth Agricultural Bureaux, Slough.*
10. **CARLOS, G., ZERVAS, G., DRIVER, P., ANDERSON, P.M., ILLINGWORTH, D.V., AL-TEKRITY, S. and ZERVAS, G. 1985.** The effect of

soluble glass boluses on the copper, cobalt and selenium status of Scottish Blackface ewes. *In: Trace Elements in Man and Animals (TEMA-5) ed. Mills, C.F., Bremner, I. And Chesters, J.K., pp. 714-716. Commonwealth Agricultural Bureaux, Slough.*

- 11. CARE, A.D., ANDERSON, P., ILLINGWORTH, D.V., ZERVAS, G. and TELFER, S.B. 1985.** The effect of soluble glass on the copper, cobalt and selenium status of Suffolk cross lambs. *In: Trace Elements in Man and Animals (TEMA-5) ed. Mills, C.F., Bremner, I. And Chesters, J.K., pp. 717-719.*
- 12. ALGAR, B., IRLAM, P. KNOTT, P., TELFER, S.B. and ZERVAS, G. 1985.** The use of soluble glasses to provide a controlled supply of trace elements to ruminant animals. Annual meeting of the Controlled Release Society, Geneva of Switzerland, 1985.
- 13. APOSTOLOPOULOS, K., ZERVAS, G. and KALAISSAKIS, P. 1985.** Management of Greek goat flocks in hill and high-land areas. *36<sup>th</sup> Annual Meeting of the European Assoc. For Animal Production, Halkidiki, Greece, Abstracts: vol. 2. pp. S58.*
- 14. ZERVAS, G., TELFER, S.B. and CARLOS, G. 1985.** The use of copper, cobalt and selenium containing soluble glass boluses in the prevention of trace element deficiencies in cattle. *36<sup>th</sup> Annual Meeting of the European Assoc. For Animal Production, Halkidiki, Greece, Abstracts: vol. 1, pp, N5b. 20.*
- 15. KALAISSAKIS, P., PAPADOPOULOS, G., ZERVAS, G. and FEGEROS K. 1986.** Chemical Composition and nutritive value of Greek feedstuffs. *38<sup>th</sup> Annual Meeting of the European Assoc. For Animal Production, Lisbon of Portugal, 1987, Abstracts: vol1, p. N.1.8.*
- 16. ZERVAS, G. and TELFER, S.B. 1987.** Prevention of trace element deficiencies in: *I Cattle Bulletin of the Hellenic Veterinary Medical Society 38 (4): 251-257.*

17. **ZERVAS, G., TELFER, S.B., AL-TEKRITY, A. and JONES, D. 1987.** Prevention of trace element deficiencies in: II Sheep, *Bulletin of the Hellenic Veterinary Medical Society* 38 (4): 258-264.
18. **ZERVAS, G., CARRLOS, G. and TELFER, S.B. 1987.** The use of Co - Cu - Se containing soluble glass boluses on the prevention of trace element deficiencies in lambs. *World Review of Animal Production* 23: 51-53.
19. **ZERVAS, G., TELFER, S.B., CARLOS, G., ANDERSON, P. 1987.** The effect of soluble –glass boluses on the copper, cobalt and selenium blood status of ewes. *World Review of Animal Production, vol. XXIII No2, 59-61.*
20. **PANOPOULOU, E., ROGDAKIS, E., and ZERVAS, G. 1987.** Genetic variance of Boutsiko breed sheep population 6<sup>th</sup> Annual Meeting of the Hellenic Soc. of Animal production, *Animal Science Review* 1988, pp.29.
21. **ZERVAS, G. 1988.** Trace element concentrations in biological materials of sheep and goats of Thessalia area of Greece. *Animal Science Review, 7: 85-96.*
22. **GIVENS, D. I., ZERVAS, G., SIMPSON, V.R. and TELFER, S.B. 1988.** Use of soluble glass rumen boluses to provide a supplement of copper for suckled calves. *J. Agric. SCI., Camb. 110: 115-158.*
23. **ZERVAS, G. 1988.** Use of soluble glass boluses containing Cu, Co and Se in the prevention of trace-element deficiencies in goats. *J. Agric. Sci., Camb, 110: 115-158.*
24. **ZERVAS, G. 1988.** Treatment of Dairy sheep with soluble glass boluses containing copper, cobalt and selenium. *Animal Feed Sci. and Technology, 19: 79-83.*
25. **ZERVAS, G., TELFER, S.B., CARLOS, G. and ANDERSON, P. 1988.** The effect of soluble glass boluses on the copper, cobalt and selenium blood status of ewes. *Animal Feed Science and Technology, 21: 23-29.*
26. **ANKE, M., GROPEL, B., KRAUSE, U., ANGELOW, L., ARNHOLD, W., MASAOKA, T., BARHOOM, S. and ZERVAS, G. 1988.** Normal Mn, Zn, Cu, Fe, I,

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