

<b>Name</b>	Stergiani Dalamitra
<b>Studies</b>	<p><b>Bachelor in Animal Production</b>, Technological and Educational Institute of Larissa, Department of Agriculture</p> <p><b>Master of Science (MSc) in Animal Production</b>, University of Aberdeen, Department of Agriculture Thesis: “Effect of Cow Diet and Health on Milk Quality”</p> <p><b>Doctor of Philosophy (PhD) in Molecular Microbiology of dairy products</b>, University of Aberdeen, Department of Agriculture &amp; Medical School. Thesis: “The Epidemiology, Ecology and Persistence of <i>Staphylococcus aureus</i> in the Dairy Cow Environment”</p>
<b>Work Experience</b>	<p><b>Senior Research Associate at the University of Norwich, England</b> (2001-2004). Research program: “Sustainable conservation of Animal Genetic Resources in Marginal Rural Areas: Integrating Molecular Genetics, Socio-Economic and Geostatistical Approaches”.</p> <p><b>Senior Research Associate at the Technological and Educational Institute of Western Macedonia at Florina, Greece.</b></p> <p>Teaching, Animal Genetics, Milk Technology and Food Microbiology.</p> <p>Teaching, Advanced Food Microbiology &amp; Biotechnology in MSc course of Analysis &amp; Control of Food Products</p>
<b>Research Projects &amp; Experience</b>	<p><b><u>Econogene project: Sustainable conservation of Animal Genetic Resources in Marginal Rural Areas: Integrating Molecular Genetic, Socio-Economic and Geostatistical Approaches</u></b></p> <p>The ECONOGENE project is funded by the European Union within the Quality of Life V framework programme, a programme that comprises six Key actions aiming to enhance the quality of life of European citizens and to improve the competitiveness of European industry. ECONOGENE combines a molecular analysis of biodiversity, socio-economics and geostatistics to address the conservation of sheep and goat genetic resources and rural development in marginal agrosystems in Europe. Knowledge of sheep and goat genetic diversity will be greatly extended at the molecular level, examining many unstudied, local breeds, and identifying gene pools to map conservation priorities. A map of development perspectives will be produced, eventually, to identify areas where sustainable conservation of valuable populations could succeed. Maps of conservation and development priority will be overlaid and the value of biodiversity estimated, to justify economic intervention, and suggest appropriate guidelines and actions.</p>

**PhD Project: The Epidemiology, Ecology and Persistence of *Staphylococcus aureus* in the Dairy Cow Environment.**

The aim of this project was to examine the epidemiology of *Staph. aureus* infections within the dairy cow environment by determining the level of persistence of isolate of *Staph. aureus* in herds with high somatic cell count. Where persistence was shown, using Pulsed Field Gel Electrophoresis (PFGE), determined if these herds were persistently infected by the same or different clonal types of *Staph. aureus*. During this project were able to study if other body sites on the cow might act as a source of *Staph. aureus*, from which the udder could be re-infected. Also, determine the diversity of *Staph. aureus* isolates in herds affected by mastitis. Furthermore, was studied if L-forms might be a mechanism by which *Staph. aureus* could survive within the udder during antibiotic treatment for clinical mastitis or dry therapy and relapses of the infection seen with *Staph. aureus* mastitis could be explained with this theory.

**MSc Project: Effect of Cow Diet and Health on Milk Quality.**

The purpose of this work was to determinate the effect of dietary changes specifically at turn-out on milk, fat and protein production, fatty acids and water content as measured by the freezing point depression. Also, to study the effect of animal health status on the nutritional quality of milk. Finally, to identify if antibiotic treatment of clinical mastitis in one infected quarter results in carry over of antibiotic to uninfected and untreated quarters and so results in contamination of the bulk milk with inhibitory substances.

**Scholarships and Awards**

**European Social Fund:** One year fund for the study of the MSc

**Sir Maitland Award:** Financial prize for studying and completing the PhD.

**Academic seminars**

Departmental Seminars

Project Presentations

Journal club meetings

Presentations in Conferences

Member of the British Society of Animal Production Meeting

**Languages**

English

Spanish

## Publications

1. Bertaglia, M., Joost, Econogene Consortium (Dalamitra, S.), S., Roosen, J., and the Econogene Consortium (2007). **Identifying European Marginal Areas in the Context of Local Sheep and Goat Breeds Conservation: A Geographic Information System Approach**, *Agricultural Systems*, 94:657-670.
2. Bruford M. W., G. Hewitt, S. Dalamitra, M. Taylor and the Econogene Consortium (2005) **Strategies for Integrating Husbandry, Genetics, Geographic and Socio-Economic Data for Sustainable Conservation**. The Role of Biotechnology, Villa Gualino, Turin, Italy – 5-7 March
3. Bruford Peter, Ch., , M., Perez, T., Dalamitra, S., Hewitt, G., Erhardt, G., and the Econogene Consortium (2007) **Genetic diversity and subdivision of 57 European and Middle-Eastern sheep breeds**. *Animal Genetics* 38:37–44.
4. Hoda, A., Hyka, G., Dunner, S., Obexer-Ruff, G. and Econogene Consortium (2011) **Genetic Diversity of Albanian Goat Breeds based on Microsatellite Markers** *Arch. Zootec.* 60 (231): 607-615
5. J. Cañon, D. Garcia, M.A. Garcia-Atance, G. Obexer-Ruff, L.A. Lenstra, P. Ajmone-Marsan, S. Dalamitra, S. Dunner, and the Econogene Consortium (2006) **Geographical partitioning of goat diversity in Europe and the Middle East**. *Animal Genetics* 37, 327-334
6. Joost, S., Bonin, A., Bruford, M.W., Després, L., Conord, C., Econogene Consortium (Dalamitra, S.), Erhardt, G., Taberlet, P., Econogene Consortium (2007) **A Spatial Analysis Method (SAM) to detect candidate loci for selection: towards a landscape genomics approach to adaptation**, *Molecular Ecology*, 16:3955–3969.
7. Laloë Denis<sup>1\*</sup>, Katayoun Moazami-Goudarzi<sup>1</sup>, Johannes A. Lenstra<sup>2</sup>, Paolo Ajmone Marsan<sup>3</sup>, Pedro Azor<sup>4</sup>, Roswitha Baumung<sup>5</sup>, Daniel G. Bradley<sup>6</sup>, Michael W. Bruford<sup>7</sup>, Javier Cañón<sup>8</sup>, Gaudenz Dolf<sup>9</sup>, Susana Dunner<sup>8</sup>, Georg Erhardt<sup>10</sup>, Godfrey Hewitt<sup>11</sup>, Stergiani Dalamitra<sup>11</sup>, Juha Kantanen<sup>12</sup>, Gabriela Obexer-Ruff<sup>9</sup>, Ingrid Olsaker<sup>13</sup>, Clemen Rodellar<sup>14</sup>, Alessio Valentini<sup>15</sup>, Pamela Wiener<sup>16</sup>, European Cattle Genetic Diversity Consortium and Econogene Consortium (2010) **Spatial Trends of Genetic Variation of Domestic Ruminants in Europe** *Diversity*, 2, 932-945; doi:10.3390/d2060932
8. Lenstra J. A., P. Ajmone Marsan, M. Bruford, T. Perez, A. Georgoudis, K. Karetsou, G. Hewitt, S. Dalamitra, M. Taylor and the Econogene Consortium (2005) **Evolutionary and Demographic history of sheep and goats suggested by nuclear, mtDNA and Y-chromosome**. The Role of Biotechnology, Villa Gualino, Turin, Italy – 5-7 March
9. Naderi S., Rezaei H.R., Taberlet P, Zundel S., Rafat S. A., Naghash H. R., El-Barody M. A. A., Ertugrul O., Pompanon F., S. Dalamitra and the Econogene Consortium (2007) **Large-Scale Mitochondrial DNA Analysis of the Domestic**

**Goat Reveals Six Haplogroups with High Diversity.** PLoS ONE | Issue 10 |  
e1012. [www.plosone.org](http://www.plosone.org)