

<b>Program</b>	<b>PN II, INOVARE- Dezvoltare Produse-Sisteme-Tehnologii</b>
<b>Project Leader</b>	<b>AVICOLA Bucuresti SA</b>
<b>Project title (ENG):</b>	<b>Obtaining the consumption egg with low cholesterol, new product on the Romanian market - VITAOU</b>
<b>Project title (RO):</b>	<b>Obtinerea oului de consum cu continut redus de colesterol, produs nou pe piata romaneasca - VITAOU</b>
<b>Duration</b>	2008-2011
<b>Team Leader Partner 2</b>	Senior Researcher Eng. Virgil Criste
<b>Summary</b> (short description) ENG	<p>The project follows the developing of an innovative nutritional strategies for obtaining eggs with low cholesterol in terms of protecting the environment. In the project was developed and tested, on hens, a first set of four nutritional innovative solutions in terms of micro test, then were tested and verified under farm conditions two solutions nutritional selected from the first test. The best solution was optimized by supplementation with microelements (for solutions) and finally were tested and verified under farm conditions two nutritional solutions selected from the optimized solutions to obtain the top solution for the farmers.</p> <p>The contribution of INICD ECOIND team consisted in identifying the potential risk factors for the environment and assessing the impact of applying the nutritional solutions based on the results from measurements made from manure, in prioritizing the nutritional solutions and selecting the best nutritional solutions based on quality/ cost / environment impact performance using the AHP multi-criteria method.</p>
<b>Summary</b> (short description) RO	<p>Proiectul urmareste elaborarea unei strategii nutritionale inovative in vederea obtinerii de oua cu continut redus de colesterol in conditiile protejarii mediului. In cadrul proiectului s-a elaborat si experimentat, pe gaini ouatoare, un prim set de patru solutii nutritionale inovative in conditii de microtest apoi s-au testat si verificat in conditii de ferma doua solutii nutritionale selectate din primul test. Cea mai buna solutie s-a optimizat prin suplimentarea cu microelemente (patru solutii) iar in final s-au testat si verificat in conditii de ferma doua solutii nutritionale selectate dintre solutiile optimizate pentrua obtine solutia de top pentru fermieri. Aportul echipei INCD ECOIND a constat in identificarea potentialilor factori de risc pentru mediu si evaluarea impactului aplicarii solutiilor nutritionale pe baza rezultatelor obtinute in urma determinarilor efectuate din dejectii, ierarhizarea solutiilor nutritionale si selectarea celor mai bune solutii nutritionale pe baza performantelor calitate/cost/ impact de mediu utilizand metoda multicriteriala AHP.</p>
<b>Dissemination of results</b>	
Full-paper ISI	Cornescu, G., M., Criste, R., D., Grosu, H., Panaite, T., D., Untea, A., Cruceru, L., Effect of Cr Pic supplementation in layers' diet enriched with Omega-3 fatty acids, on productive performances and egg quality traits, <i>Journal of Biotechnology</i> 208, 2015, S5-S120
Full-paper BDI	Arama, M., Criste, I., V., Criste, R., D., Panaite, T., Aplicarea metodei multicriteriale AHP (Analytical Hierarhicy Process) in ierarhizarea unor solutii nutritionale, testate pe gaini ouatoare, in conditii de protejare a mediului, <i>Archiva zootechnica</i> , 2015, vol 18 (2), 75-88
Conferences (platform, poster, abstract / full-paper)	Criste, I., V., Arama, G., M., Panaite, T., Environmental impact in using puoltry manure as organic fertilizer, <i>12<sup>th</sup> International Symposium Biology and Animal Nutrition</i> , IBNA Balotesti 14.11.2014

Conferences (platform, poster, abstract / full-paper)	Criste, R., D., Panaite, T., D., Ropota, M., Cornescu, G., M., Criste, I., V., Bercaru, A., M., Egg quality enrichment using unconventional vegetal forages in layers' diet, <i>XVIII EURO FOOD CHEM Conference</i> , Spania, Madrid, 12-17. 10. 2015
	Criste, R., D., Panaite, T., D., Ropota, M., Criste, I., V., Bercaru, Effect on egg cholesterol level when using camelina meal in laying hens diet, <i>13<sup>th</sup>– International Symposium of Animal Biology and Nutrition</i> Balotești 15 October 2015
Patents	Criste, R., D., Panaite, T., D., Olteanu, M., Ropota, M., Cornescu M., G., Criste, I., V., Banciu (Catrangu), A., R., Varzaru I., Reteta furajera pentru obtinerea de oua de gaina cu continut redus de colesterol, Cerere brevet nr. A/00923/27.11.2014
	Zarug, T., Pricop, F., Criste, R., D., Panaite, T., D., Olteanu, M., Ropota, M., Criste, I., V., Untea, A., E., Obtinerea oualor de gaina cu continut scazut de colesterol, Cerere brevet nr. A 00883 / 24.11.2015.