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P27 Activity Of ¹³⁷Cs And ⁴⁰K In Sheep Milk <i>Todorovik Aleksandra, Angelovski Ljupco, Dimitrieska Stojkovik Elizabeta, Hajrulai-Musliu-Zehra, Uzunov Risto, Stojanovska Dimzoska Biljana</i>	114
P28 Replacement Of Fish Meal By Ribotrcin In Diets Of Carp (Cyprinus Carpio) <i>Atanasoff Pavlov Alex, Nikolov Yankov Galin</i>	116
P29 Game Meat Sausages As Mycotoxicological Risk To Consumers <i>Markov Ksenija, Pleadin Jelka, Frece Jadranka, Delaš Frane</i>	117
P30 Consumers' Sensory Assessment In Relation To Free Fatty Acids Content Throughout Ripening Of Cheese In A Sack <i>Tudor Kalii Milna, Delaš Ivančica, Kalit Samir, Havranek Jasmina</i>	119
P31 The Effects Of Use The Litter Of Vermiculite On Some Physicochemical Andmicrobiological Parameters In Broiler Meats <i>Özlü Hayrunnisa, Yıldız Ahmet, Yıldız Kürşat, Urçar Sevda, Aydemir Atasever Meryem, Atasever Mustafa</i>	121
P32 A Study On Determination Of Some Chemical Substances Injected Into The Beef And Poultry Meat <i>Özcan Ali, Günşen Uğur, Karaca Yılmaz Mehmet</i>	123
P33 Characteristic Of Bacteriocins Produced By Lactic Acid Bacteria <i>Özlü Hayrunnisa, Atasever Mustafa</i>	125
P34 LC-MS/MS Method For Thyreostatic Agents In Urine And Muscle <i>Yankovska Todorka, Peycheva Milena, Stoilova Nadezhda</i>	126
P35 Requency Of Contamination With Listeria Monocytogenes Of Raw Dried Cured Vacuum Packed Sausages <i>Daskalov Hristo, Fejzullah Fejzulla, Daskalova Alexandra</i>	127
P36 Possibilities Of Implementing Progesterone Eia Test In The Control Of Reproduction In Dairy Cows <i>Barna S.Tomislav, Milovanović M. Aleksandar, Lazarević I. Miodrag, Gvozdić M. Dragan</i>	128
P37 Sexual Behaviors Of Kivircik Ewes Having Different Level Of Receptivity Index <i>Ergül Ekiz Elif, Ekiz Bulent, Kocak Omur</i>	130
P38 Influence Of Geographical Location Change On Onset Of Sexual Activity In Indigenous Pramenka Of Lika Sheep <i>Dovenska Monika, Vince Silvijo, Spoljaric Branimira, Nikolovski Martin, Dovenski Toni, Grizelj Juraj</i>	131
P39 Histopathological Changes Of The Liver In T-2 Mycotoxicosis In Broilers <i>Popovska-Percinic Florina, Blagoevska Katerina, Dodovski Aleksandar, Blagoevski Andreja, Stojkovski Velimir, Ilieski Vlatko, Pendovski Lazo, Ristoski Trpe</i>	133
P40 T-2 Toxin And It's Effect Upon Broiler's Tissue Antioxidant Status <i>Blagoevska Katerina, Popovska-Percinic Florina, Dodovski Aleksandar, Blagoevski Andreja, Mickov Ljupco, Esmerov Igor, Stojkovski Velimir</i>	135
P41 Effects Of Cold Stress On Thyroid Gland In Rats <i>Özüdoğru Zekeriya, Unal Çiğdem</i>	136

**P37 SEXUAL BEHAVIORS OF KIVIRCIK EWES HAVING
DIFFERENT LEVEL OF RECEPTIVITY INDEX**

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ABSTRACT

Reproduction is important for sheep breeding since the greatest part of the income in sheep farming is supplied through lamb production. One of the most important determinants of successful reproduction is the willingness and ability of animals to display adequate levels of sexual behaviour. The present study was performed to investigate the alterations in the frequencies of some sexual behaviours displayed around the time of estrus by Kivircik ewes having Low, Medium and High level of receptivity index (RI). The effects of different levels of RI on attractivity, proceptivity and some estrus parameters were also investigated.

During the breeding season, 43 Kivircik ewes were synchronized with intravaginal sponges impregnated with 30 mg FGA left for 12 days plus an injection of 600 IU PMSG at the time of sponge removal. Behavioral observations were performed at 8 hours intervals starting at 16 h following sponge removal. During the observation periods ewes were introduced to rams one by one, and sexual behaviour of each ewe was video-recorded for 3 min. After the evaluation of video-records the ewes were divided into three subgroups (Low, RI < 50%; Medium, RI = 50-80%, and High, RI > 80%) according to their RI level.

The differences among groups in terms of estrus onset, estrus duration, average attractivity and average proceptivity were not significant statistically ($P > 0.05$). Frequencies of urination and vocalisation behaviours during the receptive period were lower than those recorded at 8 h before, and 8 h after the receptive period. The frequency of non firm standing behaviour was similar both at the receptive period and at the previous observation period.

It is concluded that the level of receptivity index does not have any significant effect on attractivity, proceptivity, and some other sexual behaviours in Kivircik ewes. A ewe with low receptivity index display adequate level of sexual behaviour as a ewe with high receptivity index does.

Key words: Kivircik ewe, sexual behavior, receptivity index, attractivity, proceptivity