

## Utilization of *Juncus acutus* as Alternative Feed Resource in Ruminants

**Authors :** Nurcan Cetinkaya

**Abstract :** The aim of this paper is to bring about the utilization of *Juncus acutus* as an alternative roughage resource in ruminant nutrition. In Turkey, JA is prevailing plant of the natural grassland in Kizilirmak Delta, Samsun. Crude nutrient values such as crude protein (CP), ether extract (EE), organic matter (OM), neutral detergent fiber (NDF), acid detergent fiber (ADF), and acid detergent lignin(ADL) including antioxidant activity, total phenolic and flavonoid compounds, total organic matter digestibility (OMD) and metabolisable energy (ME) values of *Juncus acutus* stem, seed, and also its mixture with maize silage were estimated. and published. Furthermore, the effects of JA over rumen cellulolytic bacteria were studied. The obtained results from different studies conducted on JA by our team show that *Juncus acutus* may be a new roughage source in ruminant nutrition.

**Keywords :** antioxidant activity, cellulolytic bacteria, *Juncus acutus*, organic matter digestibility

**Conference Title :** ICASFE 2016 : International Conference on Agricultural Science and Food Engineering

**Conference Location :** Tokyo, Japan

**Conference Dates :** May 26-27, 2016