

1. Institution

Department of Animal Reproduction, Faculty of Veterinary Medicine, University of Warmia and Mazury in Olsztyn, 14 Oczapowski Street, 10-719 Olsztyn, Poland

2. Principal investigator and contact person

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3. Key personnel

Name	Research Tasks	e-mail
Wojciech Barański	herd health management programme, cytological endometritis in cows	wojbar@uwm.edu.pl
Marcin Bigoszewski	herd health management programme, metabolic disorders	marbig@poczta.onet.pl
Grzegorz Łukszewicz	Treatment of endometritis in cows, metabolic disorders	grzechucontra@tlen.pl
Sławomir Zduńczyk	influence of isoflavones on ovarian activity in cows, silent heat	zdun@uwm.edu.pl

4. Research profile

The main research field of the group is pathophysiology of reproductive disorders in high yielding cows, with special emphasis of ovarian cyclicity and uterine function after calving. Studies are mainly focused on clinical, endocrinological, biochemical and bacteriological aspects of these processes. Currently we are interested in subclinical endometritis during service period and its impact on cow's fertility. During these studies the reaction of endometrium (cytological, cytokines expression) has been also studied. Moreover, the follicular and corpus luteum function during and after ovulation has been evaluated, as well as the hormonal stimulation of ovarian function during this time has been assessed.

5. Key technologies and tools

Clinical examination, ultrasonography, endocrinological studies, cytological and histopathological evaluation of endometrium, measurement of cytokines expression, reproductive indices.

6. Selected publications (max. 5)

1. Mwaanga, E.S., Zduńczyk, S., Janowski, T. (2004): Comparative study on the efficacy of hormonal and non hormonal treatment methods in ovarian afunction affected dairy cows. Bull. Vet. Inst. Pulawy, 48, 265-267.
2. Barański, W., Zduńczyk, S., Janowski, T., de Kruif, A., Opsomer, G., Dewulf, J. (2005): Herd health programme for dairy cows (Polish). Medycyna Wet., 61(1), 14-18.
3. Zduńczyk, S., Piskula, M., Janowski, T., Barański, W., Raś, M. (2005): Concentrations of isoflavones in blood plasma of dairy cows in three herds with different incidence of silent heat. Bull. Vet. Inst. Pulawy, 49, 189-192.
4. Zduńczyk, S., Janowski, T., Baranski, W, Raś, M. (2006): Untersuchungen zum Einfluss von Isoflavonen auf die postpartale Ovaraktivität bei Kühen. Tierärztl. Umschau, 61, 127-132.
5. Barański, W., Janowski, T., Zduńczyk, S., de Kruif, A., Opsomer, G., Dewulf, J. (2007): Clinical findings in repeat breeders cows in dairy herds under herd health programme. Reprod. Dom. Anim., 42, suppl. 1, 3.