Final list of accepted posters

PSt1	Melatonin added to freezing medium improves cryosurvival of English Bulldog spermatozoa (847*)	Martinez-Rodriguez I
PSt2	Aquaglyceroporins rather than orthodox aquaporins are involved in boar sperm cryotolerance (882*)	Delgado-Bermúdez A
PSt3	Changes in nitric oxide synthase isoforms localization in the presence of melatonin seem not to be related with changes in nitric oxide levels during ram spermatozoa capacitation (894*)	Miguel-Jimenez S
PSt4	Semen quality and genetic differences in boars of high and low field fertility (903*)	Stravogianni V
PSt5	Restoration of IGF-1 after weaning in hyper-prolific primiparous sows: effect of protein loss on IGF-1 concentration (907*)	Han T
PSt6	The use of curcumin or resveratrol in boar semen storage medium improves sperm quality parameters (913*)	Ďuračka M
PSt7	Monthly changes in testicular ultrasonography and their association with ram sperm quality (929*)	Carvajal-Serna M
PSt8	Evaluation of membrane integrity in bovine sperm by ethidium bromide (971*)	Musidray A
PSt9	Serological response to Coxiella burnetii and pregnancy duration, age and outcome in cases of abortion and stillbirth in dairy cows (1056*)	Ringa-Karahona G
PSt10	Lineage differentiation of rabbit preimplantation embryos in sequential, single step and single step with renewal in vitro culture systems (1118*)	Chołoniewska A
PSt11	Management and resolution of a large vaginal leyomioma in a bitch causing severe dysuria without urinary or vaginal surgery: a case report (1119*)	Ferré-Dolcet L
P2	DNA tests for early detection of bull-carriers of genetic defects in Aberdeen Angus cattle (829)	Konovalova E
P3	Dietary effect of different level of Omega-3 fatty acids from linseed oil on fresh and post-thaw sperm quality in Holstein bull (831)	Towhidi A
P4	Sexually inexperienced photo-stimulated mature males display high sexual behavior exposed to anestrous female goats (835)	Fernández I
P5	Effect of Berkan preparation on cow's uterine involution post partum (840)	Aminova A
P6	Precision supplementation of protein enriched Opuntia cladodes in anestrous goats exposed to the male effect: Luteogenesis and embryo implantation (846)	Meza-Herrera C
P7	The influence of selection for fur blackening on reproductive ability in sables (Martez Zibellina L.) (878)	Khodireva A
P8	Impact of season and old age on chios ram semen quality characteristics (881)	Ntemka A
P9	The reproductive and economic impact of postpartum uterine diseases in dairy cattle herds (888)	Fodor I
P10	Serological variability of leptospira cultures aborted cows (895)	Kuzmin V
P11	The occurrence of subclinical endometritis (SEM), and effect on	Garmo R T
	pregnancy rate in Norwegian Red cows (923)	

P13	A vaginal fibroleiomyoma in a ten-year-old spayed pug dog - a case report (988)	Brutinel F
P14	Application of Genome Resource Banking (GRB) with lipid-rich embryos in cats (997)	Amstislavsky S
P15	The influence of the structure of teat / udder of cows on development of the teat end hyperkeratosis (999)	Barkova A
P16	Expression of vaspin and GRP78 in corpus luteum are dependent on estrous phase in Large White pigs (1004)	Kurowska P
P17	The first application of the four-channel EMG telemetry system for uterine activity measurements in the large animal model (1016)	Gajewski Z
P18	Holographic presentation of swine ovaries in "mixed reality" reconstructions derived from 3T MR images -feasibility study (1020)	Sady M
P19	Catch-up growth in pigs with intrauterine growth retardation syndrome (IUGR) is related to impaired glucose metabolism and preferential use of fat as a source of energy (1027)	Ferenc K
P20	First overall report of seroprevalence of Leptospira in horses in Poland (1030)	Jablonski A
P21	Anti-Müllerian hormone concentration and ovarian function in dairy cows (1032)	Kavak A
P22	Influence of semen storage on the responsiveness to a sensitizer of receptor-gated intracellular calcium channels in boar spermatozoa (1042)	Bui H-D
P23	Meaning of adhesion of Staphylococcus aureus in bovine mastitis in the North-East of Poland (1045)	Dziekiewicz Mrugasiewicz M
P24	Comparison of two estrus synchronisation protocols in Polish Limousin beef cattle herds: preliminary results (1046)	Zalewski K
P25	Intra-ovarian platelet rich plasma before treatment enhances superovulation response in Holstein cows: preliminary results (1061)	Lange-Consiglio A
P26	The molecular and tissue regulation of progesterone receptors in endometrium in progesterone-treated dairy cows in anestrus type II (1078)	Trela M
P27	The quantification of the histological features in equine endometrosis based on the Masson's Trichrome staining (1084)	Domino M
P28	Clinical picture and ultrasound examination of cystic endometrial hyperplasia (CEH) in lion (Panthera Leo) resulting from long lasting medroxyprogesterone acetate (MPA) - a case report (1086)	Gizinski S
P29	Postpartum uterine involution in free farrowing sows examined by ultrasound (1099)	Grahofer A
P30	The evidence of bio-distribution of multimodal oxide nanoparticles to gonads using the rat model - a preliminary study (1103)	Olszewski J
P31	Rare complications after laparotomic ovariohisterectomy in a bitch - a case report (1116)	Kaszak I
P32	Vascular changes evaluation in equine endometrosis using novel measurement methods in the Masson's Trichrome (MT) staining (1123)	Zdrojkowski L
P34	The dynamics of body weight of sheep of the Volgograd breed with a different kinship ratio (1143)	Sabrekova V

P35	Therapy of retained fetal membranes in cattle: comparison of two treatment protocols (834)	Hirsbrunner G
P37	A novel tail-mounted calving sensor – pilot study (822)	Mee J F
P38	Effect of extender on reindeer (Rangifer tarandus) sperm quality during freezing(977)	Plemyashov K
P39	Plasminogen activator activity in follicular fluid and maturation medium collected from different sized bovine follicles (877)	Tsiligianni T
P40	The effect of Mepron®, lipoic acid and L-carnitine on thyroid function in cows during the transit period (824)	Vasileva S
P41	Expression of the osteopontin (SPP1) and calbindin (CALB1) mRNAs in the egg shell gland of layers supplemented by Cynara Scolimus L. (827)	Abadjieva D
P42	Morphometric traits of boar spermatozoa depending on breed type (830)	Tadzhieva A
P43	Preventing respiratory viral infections in calves during prenatal and early neonatal periods (832)	Poryvaeva A
P44	Effect of EGF on viability of cryopreserved beef bull semen (836)	Vincenti L
P45	Results of vaginal samples in cows in the post partum period (838)	Makavchik S
P46	Comparison of three methods to synchronize ewes in estrus during the breeding season (842)	Jimenez R
P47	Miranda breed donkey fetal age determination by real-time ultrasound measurement of the fetal eye – a preliminary study (843)	Quaresma M
P48	Melatonin does not improve cryosurvival of sperm from Belgian and German Shepherd dogs (848)	Herrera F
P49	The effect of pre-freeze cooling and thawing temperatures on dog sperm cryosurvival (849)	Arias-Chavarria
P50	Morphology and ultrastructure of mast cells in the placenta of pigs in pregnancy pathology (851)	Drozdova L
P51	Slow and ultra-rapid freezing protocols for cryopreserving roe deer (Capreolus capreolus) epididymal sperm collected at different times of year (852)	Santiago-Moreno J
P52	The influence membranes damage and activity of roosters sperm on the fertilization of eggs when using cured cryopreserved sperm (853)	Silyukova Y
P53	Correlation between the age of heifers' first successful insemination and ly-poliformism of somatotropin gene (855)	Yaryshkin A
P54	Duration of the period from calving to fruitful insemination of cows depending on their genetic similarity to servicing bulls (856)	Shatalina O
P55	Effect of rearing autumn-born ram-lambs in contact with sexual- active adult rams or exposed to artificial long days. 1.) Effect on liveweight, scrotal circumference and plasma testosterone levels (857)	Gave M
P56	Effect of rearing autumn-born ram-lambs in contact with sexual- active adult rams or exposed to artificial long days. 2.) Effect on sexual activity and fertility at 8-months of age (858)	García A I
P57	Cases of bacterial infection of the urogenital organs from gilts and boar (859)	Balabanova V
P58	Immunobiology of the mammary gland in mice in the phases of lactation and physiological rest (860)	Alistratova F

		1
P59	Cells of immune memory in mice in the colostrums (861)	Pogodaeva P
P60	Analysis of the antibiotic resistance genes of microorganisms in	Bezborodova N
	the milk of cows and goats (864)	
P61	The use of marker vaccines against IBR to control reproduction of	Sokolova O
	dairy herds (865)	
P62	Testing of natural antioxidant oregonin on ram semen quality	Kistanova E
	(874)	
P63	Longevity of cows depending on age at first service (879)	Jumaguzin I
P64	DNA fragmentation in reindeer semen before and after freezing – a pilot study (880)	Krutikova A
P65	Reproductive and productive health of pigs when using Azoxivet (884)	Filatov A
P66	The method of superlong sequencing to determine the nucleotide sequences of the cattle TLR genes (886)	Kalashnikov A
P67	Radiation-induced pathology of the mammary gland in cattle (889)	Belopolskiy A
P68	Genetic diversity of small-scaled populations in locus related with reproduction traits of chickens (891)	Dementeva N
P69	Ovarian response to P4 injection plus hCG in multiparous non- cycling local and Alpine goats in northern Mexico (897)	Rodríguez-Martínez R
P70	Thyroid hormones levels evaluation in pregnant Saanen goats (899)	Polistovskaya P
P71	Hematological characteristics in pregnant Saanen goats (901)	Bokhan P
P72	Human chorionic gonadotropin increase the pregnancy rate in Morada Nova ewes (902)	Brun Vergani G
P73	Sperm concentration and volume of the ejaculate in quarter horses in two season of the year (spring and summer) (906)	Arellano-Rodriguez G
P74	Milk composition as an indicator of the reproductive performance of holstein cows (908)	Sivkin N
P75	Somatic cells in milk and reproductive parameters of Red-Motley breed cows (909)	Efimova L
P76	Effect of oregonin from Alnus incana bark on the motility and enzyme activity of cooled ram semen (910)	Ivanova M
P77	Effects of single layer centrifugation through EquicolITM on motile sperm subpopulations of donkey fresh semen (912)	Papas M
P78	CD9 pattern during bovine sperm maturation (914)	Antalikova J
P79	Detection of cluster of differentiation molecule 63 in bull sperm (915)	Jankovičová J
P80	Ovarian morphology of Romanov sheep (916)	Stratonov A
P82	Evaluation of the activity of enzymes of pregnant and non- pregnant cows (919)	Kochueva N
P83	Storage of porcine morulae and blastocysts at 20 °C prevents hatching for at least 72 h (924)	Martinez C
P84	Prevalence of retained fetal membranes after elective cesarean section in Belgian Blue cattle (926)	Meesters M
P85	The activity of the cytochrome system p450-dependent monooxygenases in calves with liver pathology of antenatal origin (936)	Bogateliya T
P86	Interferon-tau in the blood of cows as an indicator of the emerging pregnancy (939)	Savchenko L
P87	The influence of alpha and gamma interferon on cyto-	Zhejnes M

	morphometric profile of sow's vaginal mucosa in different physiological periods (940)	
P88	The effect of the probiotic preparation bioplus-2b on the	Lobanov A
F 00	microbiocenosis of the genital tract and sow productivity (942)	LODATION A
P89	The influence of geomagnetic storms on the sperm morphology	Iolchiev B
103	(946)	Tolerie v B
P90	Cattle embryo development at elevated temperature before	Baraniewicz-Kołek M
	activation of embryonic genome (948)	
P91	Effect of social rank upon the induction of the reproductive	Zúñiga García S
	response of anestrous goats treated with eCG (949)	
P92	Advantages of the bilateral flank spay in guinea pigs (Cavia	Chuprak D
	porcellus) (951)	
P93	Seminal plasma affects the expression of the ABDH2 and VCAN	Alvarez-Rodriguez M
504	genes in the sow internal genital tract (952)	
P94	Protective extender medium may enhance seminal plasma	Luther A-M
	tolerance in long-term stored spermatozoa of sensitive boars (956)	
P95	Stimulation of follicle maturation in the parent flock of hens (957)	Byuler A
P96	Calcification in organs of the reproductive system of broiler	Novikova M
	parent flocks (958)	
P97	The influence of Bacillus subtilis on reproductive indicators of	Lebedeva I
	chickens in the second phase of productivity (959)	
P98	Chemotactic activity in the follicular and oviductal fluid is	Diana A
	independent on progesterone level in porcine (962)	
P99	The effect of isoflurane anesthesia on the cardiac activity and	Nechaev A
D100	contractility of pregnant rabbit uterine (963)	7
P100	Comparison of three treatments for subclinical mastitis in cattle (964)	Zaznobina T
P101	Use of medical grade honey and L-Mesitran™ soft, to improve the	Pimenta J
	quality of chilled-stored ram semen (965)	
P102	Motility characteristic, morphology and acrosomal membrane	Dziekońska A
	integrity of epididymal sperm of red deer (Cervus elaphus L.)	
	stored in a liquid state at 5°C (966)	
P103	Treatment of cows with subclinical mastitis (967)	Batrakov A
P104	Is there a role for P2Y2 receptors in bovine oocyte	Pereira R
D405	cryopreservation? (968)	
P105	Metabolic monitoring of adaptation processes at pregnancy final	Ventsova I
	stage in different breeds of imported cattle in the Central Black Soil Region (970)	
P106	Motility, mitochondrial membrane potential and antioxidant	Koziorowska-Gilun M
1 100	status of epididymal sperm of red deer (Cervus elaphus L.) stored	KOZIOTOWSKA-GITATI IVI
	in a liquid state at 5°C (972)	
P107	First attempts to save local cow breeds using MOET in Latvia	Sematovica I
	(976)	
P108	Effect of iron and silver nanoparticles on boar semen kinetics	Basioura A
	(978)	
P109	Indicators of protein metabolism and serum transferase activity	Sineva A
	in Holstein breed cows in the dynamics of the postpartum period	
	and lactation (981) Effect of sodium hyaluronate on postthaw sperm quality and	Bryła M
P110	I Etta et et ca diuma bualuncia eta era ma ett barri era erren erre litri e eri	

P111	Nitric oxide levels in cows after parturition - influence on folliculogenesis (983)	Lisenko A
P112	Dynamics of sex hormones in cows with different milk production at the beginning of lactation (984)	Moiseeva K
P113	Artificial insemination (AI) with frozen-thawed boar semen (985)	Trzcińska M
P114	Mechanical activation of the bovine ovary in vivo (986)	Wocławek-Potocka I
P115	Platelet Factor 4 during culture does not improve the	M. Cambra J
. ==0	development and quality of porcine embryos produced in vitro (987)	
P116	Methods of improving productivity of sows and of piglets (993)	Solyanik V
P117	Effects of stimulation with red-light upon motility parameters of liquid-stored donkey spermatozoa (994)	Catalán J
P118	Cytotoxic effect of silver nanoparticles (AgNPs) on frozen-thawed donkey sperm: preliminary results (998)	Yousef M S
P119	The competence of wisent (Bison bonasus) sperm for in vitro fertilization (1001)	Duszewska A
P120	Inadequate mare-foal bonding restored by adoption of her own foal - a case report (1005)	Parrilla Hernández S
P121	Recovering sperm motility after thawing in gaur (Bos gaurus) epididymal sperm (1008)	Neila-Montero M
P122	Influence of breed on serum progesterone concentration in the ovulatory period in the bitch (1009)	Lucas X
P123	A preliminary study to calculate ram testicular volume using caliber and different formula (1010)	Montes-Garrido R
P124	Evaluation of the immune status of mares in the first 2 months of pregnancy (1012)	Timofeeva S
P125	No evidence of transmission of bovine viral diarrhea virus by artificial insemination in gilts (1014)	Storino G
P126	Effect of stallion age on the ultrastructural integrity of spermatozoa during cryopreservation (1015)	Atroshchenko M
P127	The cryoresistance of sperm from poultry (1017)	Zhilinsky M
P129	The concentration of toxic elements in the sperm plasma in stallions with high and low cryostability of sperm (1019)	Zaitcev A
P130	Morphological and morphometric features of the testes argali and its hybrids (1021)	Vetokh A
P131	Relationship of boar semen proteins and characteristics with field fertility (1023)	Michos I
P132	The concentration of essential elements in the sperm plasma of stallions (1024)	Kalashnikov V
P133	Genetic transformation of quails primordial germ cells in vitro (1025)	Tomgorova E
P134	Biochemical status of cows in the I and II phases of the dry period due to reproductive capacity and milk production (1029)	Leibova V
P135	Creating a system for genome editing of chicken embryonic cells (1031)	Volkova N
P136	The influence of the female body weight on selected features of the first and second eggs and the weight of the Wroclaw Pigeon's chicks (1033)	Miąsko M
P137	Relationship between polymorphism c.1607C>T in the PRLR gene and growth indicators and body weight of cows and calves (1035)	Kowalewska-Łuczak I
P138	The effects of the vitamin-mineral drug "Antimiopatik" use in	Chernitskiy A

	1	T
	cows during the dry period on postnatal growth and health of the offspring (1038)	
P139	Influence of vitamin-mineral drug "Antimiopatik" on reproductive characteristic in cows (1039)	Lyapko N
P140	Analyzing the level of heterozygosity in the Polish hunting spaniel population (1041)	Rogoza M
P141	Onset of oviposition by honey bee (Apis mellifera) queens inseminated at different age (1048)	Gąbka J
P142	Hatching results of Japanese quail (Coturnix japonica) related to age of females (1049)	Grzegrzółka B
P143	Inheritance of cocks sperm cryostability (1050)	Pleshanov N
P145	Comparative andrological examinations of Charolais bulls with different quality of semen production (1052)	Kern L
P146	Seminal quality in Nellore bulls selected for low and high residual feed intake (1053)	Rodrigues N N
P147	Is the luteal vascularization percentage correlated with progesterone concentration and with different types of the luteal structures detected in superovulated sheep? (1054)	Bevilaqua J
P148	Spectral doppler ultrasonography during the last week of gestation of santa ines ewes: preliminary results (1055)	Garcia Kako Rodriguez M
P149	The research of the toxic effects of antibiotic resistant S. aureus strains (1059)	Nikanova D
P150	The trace element status of lactating Holstein breed cows during the resumption and depression of ovarian ovulatory function after parturition (1060)	Safonov V
P151	Determination of the influence of amino acid substitution on the spatial structure of the resulting protein in domestic pig (1062)	Kołomyja P
P152	Evaluation of progesterone measurement for the diagnosis pregnancy and embryonic mortality in dairy cows (1064)	Nikitin G
P153	Prepartum metabolic status of dairy cows with different ovarian activities during first lactation (1066)	Solomakhin A
P154	The effect of the age on sperm quality in reindeer (Rangifer tarandus) (1068)	Goncharov V
P155	Traditional gonadectomy vs gonadectomy by Ligasure® in grey squirrels (Sciurus carolinensis): Comparing surgical techniques (1074)	Bufalari A
P156	Endometrial expression of Prostaglandin-Endoperoxide Synthase 1 and 2 in healthy, subclinical and clinical endometritis in dairy cows fourth week postpartum (1075)	Tobolski D
P157	Changes in somatic cell and total bacterial counts during the postpartum period in Damascus goats (1077)	Darbaz I
P158	The qualitative composition of milk from cows with sub-clinical mastitis (1079)	Fedotov S
P159	Occurrence of cryptorchidism in male piglets (1083)	Stekolnikov A
P160	Semecarpus anacardium and Nigella sativa improve ovulation rate in dairy cows with silent heat 50-60 days after parturition (1087)	Nowicki A
P161	Variations in expression of boar sperm transcripts analyzed by RNA-Seq (1088)	Wasilewska- Sakowska K
P162	Post-thaw supplementation and proteomic analysis of fractionated seminal plasma from boars with different semen freezability (1089)	Fraser L

— r		T
	ne influence of extracellular matrix components on	Roszkowska K
l l	fferentiation of porcine bone marrow, adipo- and myometrium-	
	erived mesenchymal stem cells (1090)	
l l	resence and localization of the apelin system in the queen	Troisi A
	acenta at different stages of pregnancy (1091)	
l l	eproductive performance of bulls Kalmyk breed depending on	Onkorova N
	ne methods of mating (1092)	
	earing of honey bee (Apis mellifera) queens from larvae treated ith amitraz (1093)	Trzeciecka J E
	ouble ovulations and twin pregnancies in mares (1094)	Lebedeva L
	TIQ™ (Virtual Touch Tissue Imaging Quantification) elastography	Rodrigues Simões A
l l	f placental structure of brachycephalic bitches - preliminary	P
	esults (1098)	
	ne effect of different cosmophysical activity on successful	Nikishov A
	semination in cattle (1102)	
	ssociation between serum testosterone concentration and	Serikov A
	nolesterol content in bulls (1104)	
	ffects of highly dispersed silica nanoparticles on the	Stanislavovich T
	ryoresistance of porcine cumulus-oocyte complexes (1105)	
	olation of the guinea fowl spermatogonia (1106)	Volkova L
	ffect of hatching egg storage period on hatchability and post-	Nikitchenko V
	mbryonic development of broiler chickens (1107)	Time of the state
	lentification of the Hcrtr2 gene mutation - in silico analysis	Wielgórska K
	112)	
	nort-term clinical effects of GnRH analogue deslorelin in bitches	Kaya D
	uring late prepubertal period - preliminary results (1114)	'
	ransmissible venereal tumor and rhabdomyosarcoma in a dog -	Kuru M
l l	case report (1120)	
78 Ex	xpression of selected genes of the uterine sows and their	Juszczuk-Kubiak E
as	ssociation with reproductive traits (1122)	
79 U	dder pathogen species in subclinical mastitis cases in dairy cows	Båge R
in	Rwanda (1124)	
80 Ef	ffect of different two-step IVM protocols on the developmental	Singina G
cc	ompetence of matured bovine oocytes (1127)	
81 TI	ne effect of culture medium renewal on the in vitro	Prochowska S
de	evelopment of feline embryos (1128)	
82 R	elationship between subclinical ketosis in postnatal period and	Klinc P
da	ays open period in dairy cows (1129)	
l l	mbryonic stem cells generated from haploid mouse embryos	Gręda P
	re prone to self-diploidization (1132)	
	ne effect of cumulus morphology on progression of in vitro	Lopukhov A
	naturation and parthenogenetic development of porcine oocytes	
	•	
	•	De los Reyes M
	•	
		Atanasov B
l l	· · · · · · · · · · · · · · · · · · ·	Kowalik M
	calization throughout the estrous cycle in the bovine uterus .142)	
86 Ex de 88 In or ra 89 M	expression of connexin 37 and connexin 43 throughout follicular evelopment in canines (1139) ejecting the cows with prostaglandin (PGF2 α) on day 8 instead in day 7 in an Ovsynch protocol did not increase the lyteolysis effect preliminary study (1141) dembrane progestin receptor (mPR) δ and ϵ expression and escalization throughout the estrous cycle in the bovine uterus	De los Reyes Atanasov B Kowalik M