

Tento projekt je spolufinancován Evropským sociálním fondem a Státním rozpočtem ČR InoBio – CZ.1.07/2.2.00/28.0018

Xcell Slovakia Breding Services





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Who we are ???

Only one certified insemination station for red deer, fallow deer and mufloun in EU

DEER FARM SLOVAKIA

- * 55 ha of pasture divided into the sections
- * fixation hall "crush", retention reservoir
- * own basic herd and breeding stags also in New Zealand

DNA LABORATORY

- * DNA research for inbreeding
- * parentage and isolation of biological samples: blood, fur/hair, semen

SEMEN AND EMBRYOLOGY LABORATORY

- * artificial insemination and embryotranfer of animals
- * synchronization of deer females
- * liquid nitrogen storage of semen and embryos

* know-how processing deer semen – fallow deer – mufloun and freezing technologies







NEW EUROPEAN KING OF DEER







The breeding service provides

- 1) insemination doses and embryos ~ servicing
- 2) **live animals** following customer requests (venison, trophy, velvet, penis, blood, tail, sinew)
- 3) services consultancy
- 4) **laboratory services** DNA and reproduction service
- 5) **project planning** and building farms with immediate entry



Breeding values for conservation

- 1) calving: birth weight/weight at weaning
- **2) growth**: daily/monthly weight gain (6 months, 12 months, maturity)
- 3) genetics: origin/pedigree/DNA analysis
- **4) health**: stress factors, immune system, metabolic tests, blood picture, energetic profile
- **5) physique**: height, chest perimeter, pelvis width, head width at eyepit, points, fitness
- 6) temperament
- 7) *d* antlers: 30 months (weight, number of points, stem length, area)

 \bigcirc **reproduction**: progress of first calving, condition of the fawn, post-calving care, number of fawns born



Semen and embryos

- semen and embryos of top red deer, fallow deer and moufflon from semen catalogues – pictures, pedigree, scoring
- harvesting and processing semen at farms (live, asleep and after shooting)
- synchronization and preparation of females for artificial insemination or embryotransfer
- fertility examination of prime stags
- one dose one pejet = one straw = 35 mil. of sperms



Collecting and Prosemen for AI – ET program











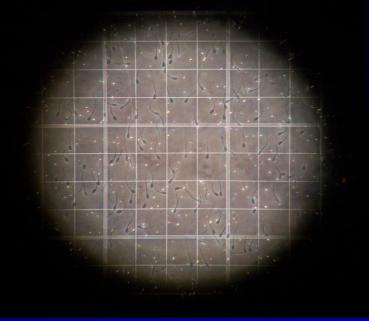


Archiving of genofond - sperms

Collect:

- Post Mortem (after hunt)
- In narcosis
- Conscious (crush)







DEMAND FOR

RED DEER

.... and quality again

- without stress factor
- diet
- good physical conditions
- timing for all procedure

Condition



Conservation of authentic gene resources



 Conservation of the best gene resources in Europe

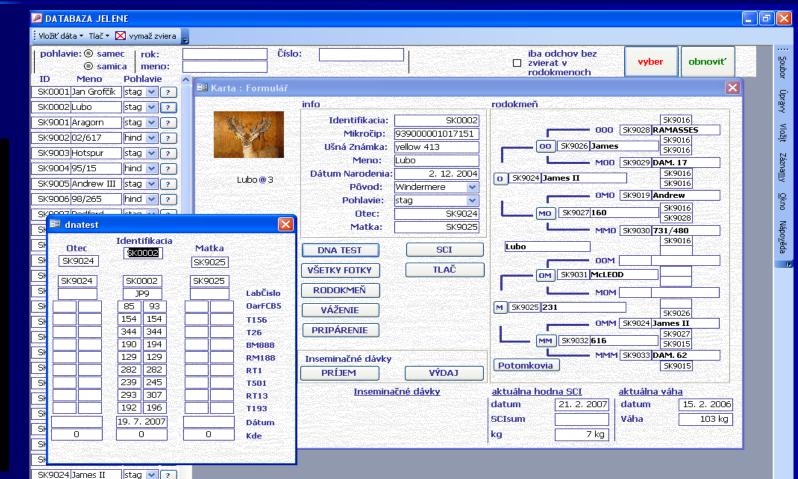


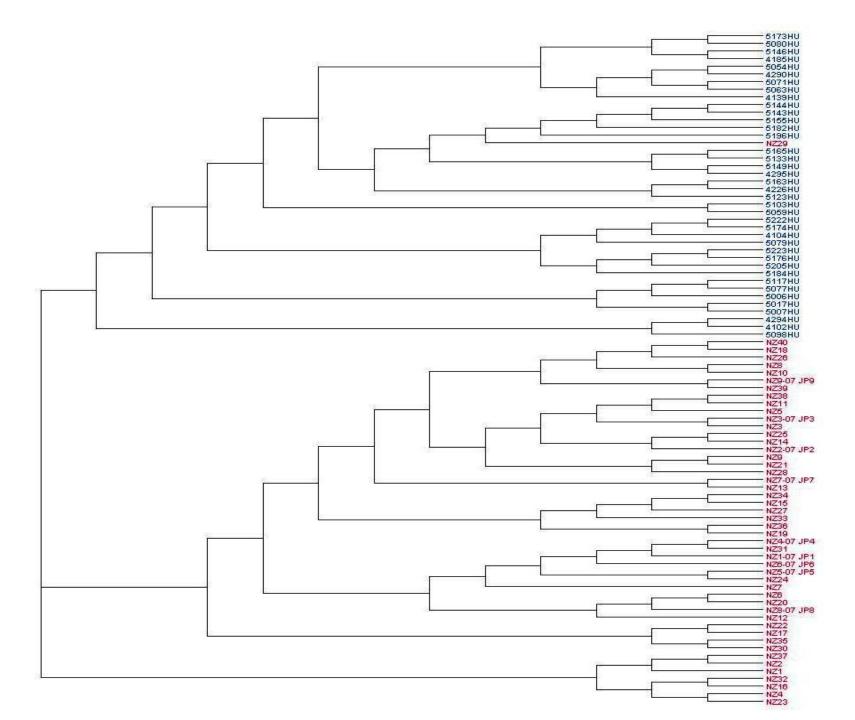




identification of animals - parentage

- monitoring of genetic diversity
- inbreeding relationships





HEALTH

Welfare – comfort of animals intensive farming – intensive care

- non-stressful handling
- quiet environment at pastures (sections) for grazing and chewing
- protect animals and sheds from endo- and ectoparasites, mosquitoes and other stinging insects
- ad libitum quality drinking water throughout the year
- non-stressful handling of animals at pastures, in the corridor
- obscuring the handling areas
- maximum length of semen harvesting, insemination and laparoscopy is 3 minutes
- inseminating a couple of females in the "crush"





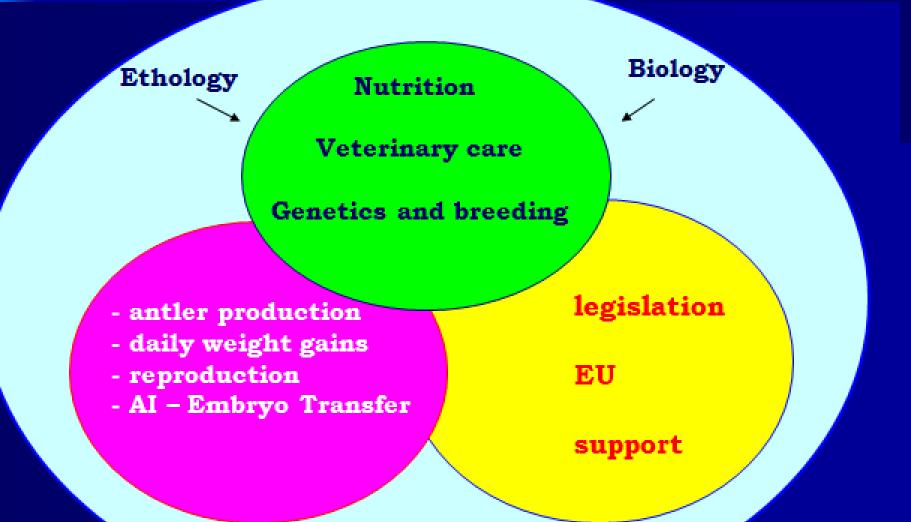






HEALTH- examinations

- regular parasitological monitoring
- regular check-up of animals clinic
- serological examination of infectious diseases, zoonosis
- preventive arrangements vaccinations
- disinfection programme (DDD) protection of animal health
- seasonal blood examination blood picture, metabolic tests, energetic profile



non-stressful moving animals from one section (2 ha) to another

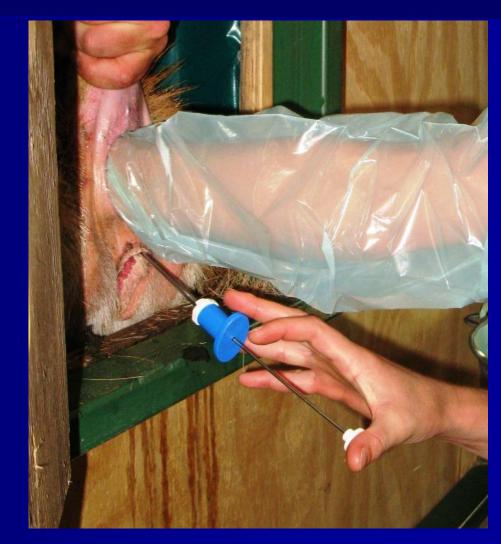




Laboratory services

- parentage determination through DNA (99,9 % accuracy)
- DNA analyzes for inbreeding selection and good breeding management
- complex laboratory examination of red deer, fallow deer and moufflon semen quality (motility, pathology, count)
- checking determination of pathogenes by means of virus isolation (100% detection method) metabolic and blood tests of animals – efficiency of breeding
- drinking and supply water quality control at farms and preserves







SEMEN CARD Red Deer Luboš

Date of measuring: 21. 10. 2008

SIG016 Warnham Park
 RAMASSES
 SIG016 Warnham Park
 SIG016 Warnham Park
 SIG016 Warnham Park
 DAM. 17
 SIG016 Warnham Park

SCOTTE Warnham Dark

- SK9016 Warnham Park

- SK9028 RAMASSES

- SK9016 Warnham Park

- SK9042 "J.R." 294

- SK9043 Dam 344

SK9051 Alfie

- SK9052 DAM. 344

SK9026 James

SK9015 Woburn

koradi@xcell.sk 421 902916241

SK9027 160

- SK9015 Woburn

0 731/480

Harvey

53 DAM. 607

4 James II

33 DAM. 62

d EOD

411 7/8

12,6 kg

ANTLERS:

SCI:

Kg:

Father

Points: 39

024 James II

SK9025 231

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IDENTIFICATION: SK0002

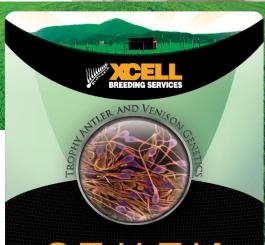
Name:	Luboš
Ear tag:	yellow 413
Born:	2004
Origin:	Windermere NZ
Sex:	stag
Microchip:	939000001017151
Weight:	250 kg





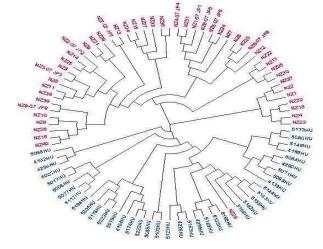
Cell Slovakia Breeding Services s.r.o.	web: www	
/entúrska 1	email: po	
11 01 Bratislava	mobile: +	
Slovakia		

Donor ID: JEL	EN 3			Collection Date:	11/28/2008
Breed: BO Name: Breed Desc: Reg Number: Breed Letter: Days rest: 999		999	Motility: 94.99% Composite: 85.08% 9		
Sperm Count:	2178	Progressive Motile: 1951	Local Motile	: 118 Non	Motile: 109
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	2	4 R 9 4 6 7 6 9 9	Jul - A	and p	
		The set			
		Parts L	2.20	547	
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		Motility Deta	ail		
		Non-Motile Local Motile	5.00 % 5.40 %		



SEMEN CATALOGUE AND SERVICES FOR RED DEER - FALLOW DEER - MOUFLON 2009/2010

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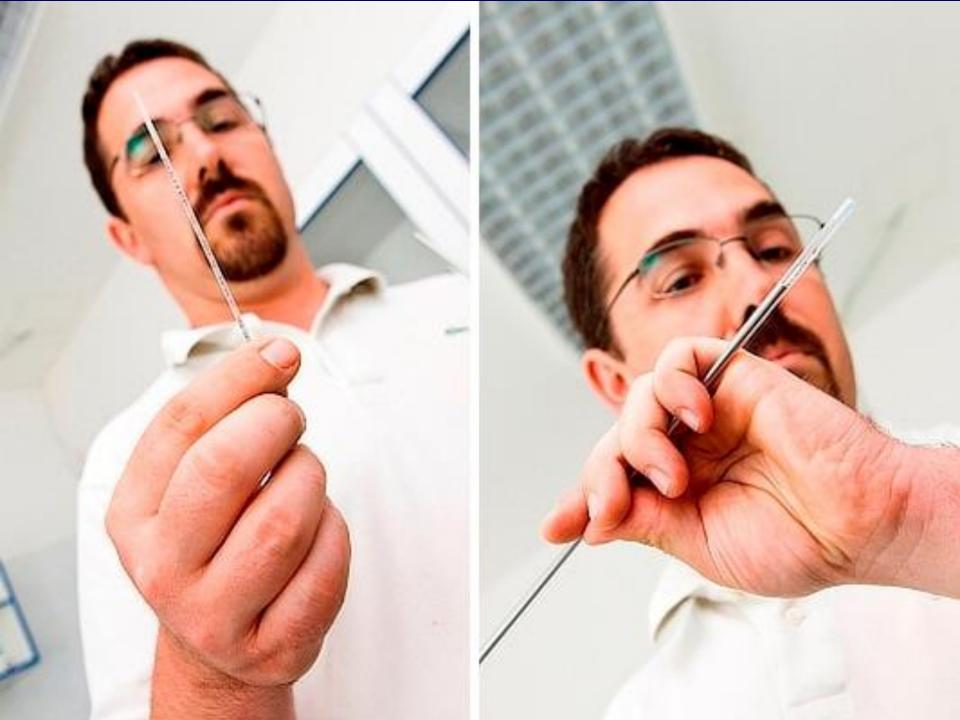
Non-Motile	5.00%
Local Motile	5.40%
Hyperactive	0%
Linear	0%
Non-linear	0%
Cupyalinear	0.0/

WHY CRYO - CONSERVATION ???



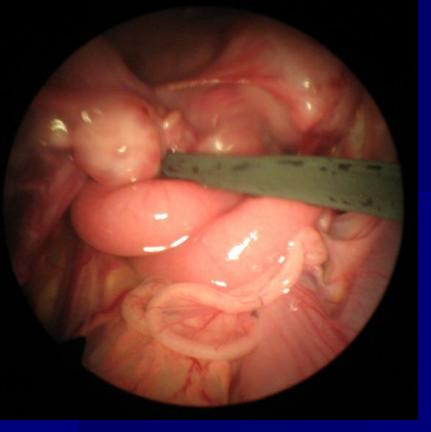


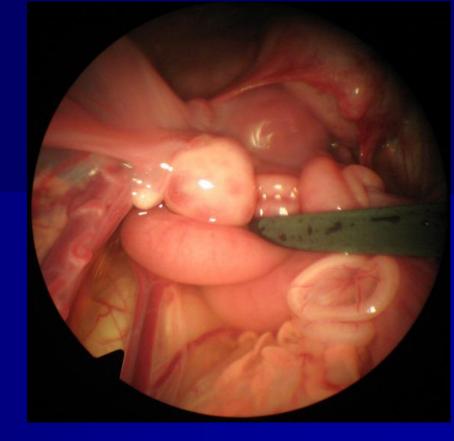




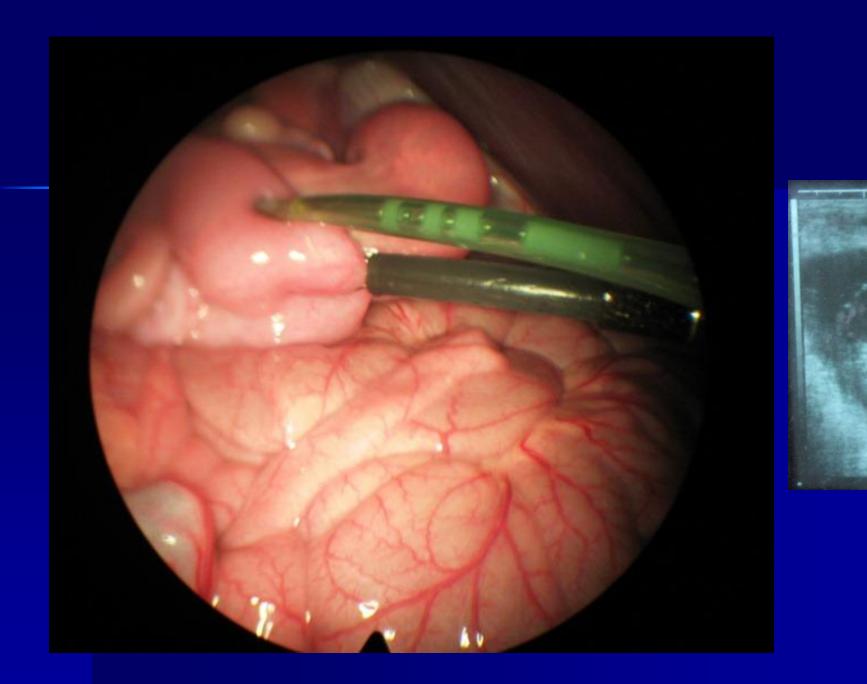












NUTRITION

What's important and "unrevealed" ???

- What's contained in feed (grass, bulk, forage, granules) and what the animals need...
 Analysis of all components and proposal of a recipe.
- What is the digestability of their feed?
 Netto energy helps to increase the digestability.
- What is the proportion of the majority components? Rumen balance, Ca:P, K:Ca, Ca:Mg
- How can I find out?
 - Complex feed analysis measuring the monthly weight gain and calculation for piece/day.

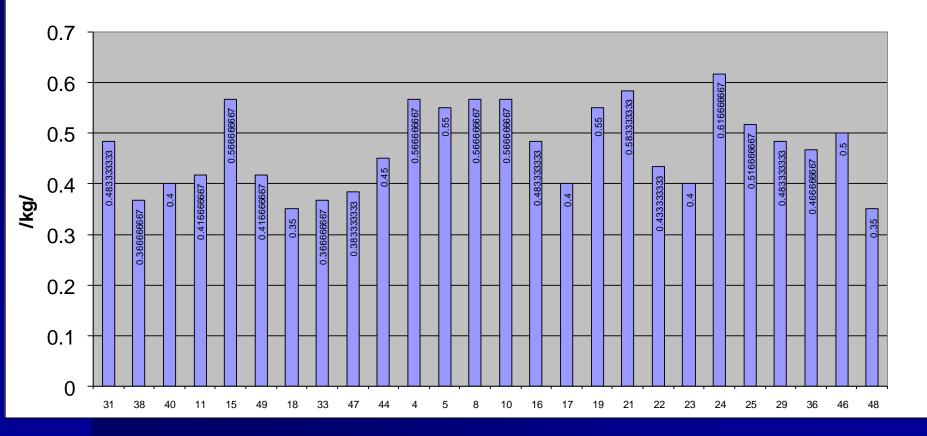


- bulk feed
- forage
- year-long pasture
- granules according to
 - animal category
 - production time
 - goal (yield/antlers)
 - animal species





daily weight gain (kg)







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