

## Reproduction in Companion, Exotic and Laboratory Animals I

### (Physiology and Pathology of Dog Reproduction)

Nantes/France, 31 August – 4 September 2009

### COURSE PROGRAM

#### Monday, 31 August 2009 – Reproduction Management

##### Introduction

Case report : Management of the heat to obtain a pregnancy in the bitch

Case report : Interests and limits of hormonal assay in breeding management

Case report : How to manage the natural mating and the unsuccessful natural mating

Practice : Carrying out and interpretation of vaginal smear and hormonal assay

08.30 – 09.00	Registration, welcome and introduction	
09.00 – 10.30	Physiology and endocrinology of the ovarian cycle	Buff
<b>10.30 – 11.00</b>	<b>Coffee break</b>	
11.00 – 12.30	Breeding management	Fieni
<b>12.30 - 14-00</b>	<b>Lunch</b>	
14.00 – 15.00	Practice : Vaginal smear	(1/2 group)
15.00 – 16.00	Practice : Progesterone assay	(1/2 group)
<b>16.00 – 16.30</b>	<b>Coffee break</b>	
16.30 – 17.30	Interests and limits of hormonal assay in breeding management	Buff
17.30 – 18.30	Natural breeding and failures	Buff

#### Tuesday, 01 September 2009 – Mating, Assisted Mating, and Artificial Insemination

Case report: Utility of artificial insemination to obtain a pregnancy when the bitch refuses natural breeding

Case report : Legal and zootechnical aspects concerning semen banking and international exchanges

Practice: Collection of semen; Preparation of fresh chilled semen for insemination

09.00 – 10.00	Collection and assessment of fresh semen	Linde Forsberg
10.00 – 11.00	Semen preservation: chilling and freezing-thawing	Linde Forsberg
11.00 – 11.30	<b>Coffee break</b>	
11.30 – 12.30	Techniques for artificial insemination in the bitch	Linde Forsberg
12.30 - 14-00	<b>Lunch</b>	
14.00 – 15.00	Practice : Collection of semen	(1/4 group)
15.00 – 16.00	Practice : Determination of the mating time clinical cases	(1/2 group)
16.00 – 16.30	<b>Coffee break</b>	
16.30 – 18.30	Legal and zootechnical aspects of semen banking and exchange	Linde Forsberg

#### Wednesday, 02 September 2009 – Control of Reproductive Cycle and Infertility of the Bitch

Case report : How to manage the infertile bitch

Case report : When and how to induce or prevent the oestrus of the bitch

Case report : management of the reproduction of the queen to prevent heat and pregnancy

Practice : Vaginal and uterine endoscopy, Insemination training vaginal, cervical and laparoscopic

08.30 – 09.00	Permanent anoestrus – silent heat	Fieni
09.00 – 10.30	Infertility with regular and irregular ovarian cycles	Fontbonne
<b>10.30 – 11.00</b>	<b>Coffee Break</b>	
11.00 – 12.00	Induction and prevention of estrus of the bitch	Levy
12.00 – 12.30	Pregnancy prevention and termination	Fieni
<b>12.30 - 14-00</b>	<b>Lunch</b>	
14.00 – 16.00	Practice : Insemination training vaginal and cervical	(1/4 group)
<b>16.00 – 16.30</b>	<b>Coffee Break</b>	
16.30 – 17.30	Practice : Insemination training cervical endoscopy	(1/4 group)

#### Thursday, 03 September 2009 – The Pregnant Bitch

Case report : How to investigate ovarian and uterine function  
Case report : Pregnancy diagnosis and monitoring  
Case report : Parturition monitoring  
Case report : Management of unwanted mating in a bitch  
Case report : Mammary gland tumors  
Practice : Ultrasonography of the pregnant bitch  
Practice : Pregnancy diagnosis by relaxine assay  
Practice : Interest of the ultrasonography in the investigation of normal and pathologic

08.30 – 09.15	Investigation of ovarian and uterine function	Levy
09.15 – 10.00	Ultrasonography of the non pregnant female genital tract	Levy
10.00 – 10.30	Physiology and endocrinology of the pregnancy	Buff
<b>10.30 – 11.00</b>	<b>Coffee Break</b>	
11.00 – 11.30	Pregnancy diagnosis by palpation, radiograph and relaxin assay	Buff
11.30 – 12.30	Pregnancy diagnosis by ultrasonography	Tainturier, Gogny
<b>12.30 – 14.00</b>	<b>Lunch</b>	
14.00 – 15.00	Parturition monitoring	Buff
15.00 – 15.45	Physiopathology and treatment of pseudolactation	Fontbonne
<b>15.45 – 16.15</b>	<b>Coffee Break</b>	
16.15 – 17.45	Practice : Ultrasonography of the pregnant and non pregnant bitch	(1/4 group)
17.45 – 18.15	Practice : Pregnancy diagnosis by relaxine assay	(1/4 group)

#### Friday, 04 September 2009 – Management of Fertility and Infertility of the Male Dog

Case report: How to investigate the male reproductive function  
Case report: Management of the infertility in the male dog  
Practice: ultrasonography of the male genital tract  
Practice: biopsy of the prostate and the testes  
Practice :Reasoning about case report with infertility, spermogram  
Round table : Early spaying in dog and cat (6-12 weeks vs 6-8 month vs adult)

08.30 – 09.30	How to investigate male reproductive function	Levy
09.30 – 11.00	Diagnosis of infertility and treatment	Fontbonne
<b>11.00 – 11.30</b>	<b>Coffee break</b>	
11.30 – 12.30	Round table : Early spaying in dog and cat	Buff
<b>12.30 – 14.00</b>	<b>Lunch</b>	
14.00 – 15.30	Practice : Ultrasonography of male genital tract	(1/4 group)
15.30 – 16.15	Practice : Biopsy and sonography of prostate	(1/4 group)
16.15 – 17.00	Practice : Semen examination	(1/4 group)
<b>17.00 – 18.00</b>	<b>Coffee break, Closing and ... follow up</b>	

**Course Master:** Prof. Dr. Francis Fieni (F)

**Co-Lecturers:** Dr. Samuel Buff (F); Dr. Alain Fontbonne (F); Prof. Dr. Catharina Linde Forsberg (S);  
Dr. Xavier Levy (F); Prof. Dr. Daniel Tainturier (F)