



Facultad de Veterinaria  
Universidad de la República  
Uruguay



UNIVERSIDAD  
DE LA REPÚBLICA  
URUGUAY

## CARTELERA N° 112 /25

### CURSO DE POSGRADO

#### **“Ritmos biológicos y su impacto en la eficiencia productiva en rumiantes”**

**Coordinadores:**

- Livia Pinto-Santini
- M. Isabel Vázquez

**Horas:**45hs

**Modalidad de dictado:** Presencial

**Cupo:** NO

**Crédito:** 3

**Período de dictado:** 26/03/2025-28/03/2025

**Período de inscripción:** \* 12/02/2025-24/03/2025

Exclusivamente a través del SGAE\* Les dejamos un [instructivo](#) de apoyo

**Docentes Nacionales:**

- Bettina Tassino
- Alicia Costa
- Mayda Rivas
- Alejandro Bielli
- Raquel Pérez-Clariget
- Juan Pedro Bottino
- Rodolfo Ungerfeld
- Karina Neimaur
- Alsiane Capelesso

**Docentes Extranjeros:**

- Alfonso Abecia (España)
- Juan Carlos Orihuela (México)

## **Contenido:**

### **Miércoles 26 de marzo**

|       |                                                                        |                                                 |
|-------|------------------------------------------------------------------------|-------------------------------------------------|
| 08:30 | Presentación del curso y de los asistentes                             | Livia Pinto-Santini y<br>M. Isabel Vázquez      |
| 09:00 | Definición y clasificación de los ritmos biológicos de los animales    | Livia Pinto-Santini<br>Fac. Veterinaria, Udelar |
| 09:45 | Cronobiología de la población en Uruguay                               | Bettina Tassino.<br>Fac. Ciencias, Udelar       |
| 11:15 | Receso                                                                 |                                                 |
| 11:30 | Los ritmos circadianos y el sueño: Mecanismos de generación            | Alicia Costa<br>Fac. Medicina, Udelar           |
| 13:00 | Almuerzo libre                                                         |                                                 |
| 14:00 | Filogenia del sueño                                                    | Mayda Rivas<br>Fac. Medicina, Udelar            |
| 15:30 | Receso                                                                 |                                                 |
| 15:45 | Ciclo espermático (espermatogénesis)                                   | Alejandro Bielli<br>Fac. Veterinaria, Udelar    |
| 16:45 | Cambios estacionales de la morfología y función testicular en carneros |                                                 |

### **Jueves 27 de marzo**

|       |                                                                                                   |                                                  |
|-------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 09:00 | Interacción de la nutrición y el fotoperiodo sobre la estacionalidad reproductiva del macho       | Raquel Pérez-Clariget<br>Fac. Agronomía, Udelar  |
| 10:30 | Receso                                                                                            |                                                  |
| 10:45 | Estacionalidad reproductiva de la hembra y su efecto en la eficiencia productiva de los rumiantes | M. Isabel Vázquez<br>Fac. Veterinaria,<br>Udelar |
| 12:15 | Almuerzo                                                                                          |                                                  |
| 14:00 | Ciclo reproductivo en la oveja: estro y ovulación. ¿hay una hora para ovular?                     | Juan Pedro Bottino<br>Fac. Veterinaria, Udelar   |
| 15:30 | Receso                                                                                            |                                                  |
| 15:45 | Estimulación de la actividad reproductiva de la oveja fuera de estación a través del efecto macho | Rodolfo Ungerfeld<br>Fac. Veterinaria, Udelar    |
| 17:00 | Estacionalidad de la producción de lana                                                           | Karina Neimaur<br>Fac. Veterinaria, Udelar       |

### **Viernes 28 de marzo**

|       |                                                                                                                                       |                                                               |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 08:00 | Estacionalidad en carneros: posibles manejos e impacto productivo de los mismos.                                                      | Alfonso Abecia<br>Fac. Veterinaria, UNIZAR<br>–España (zoom)  |
| 09:00 | Uso de la actimetría y biologgers en estudios de la ritmicidad circadiana en animales. Alfonso Abecia. Por zoom desde España.         | Alfonso Abecia<br>Fac. Veterinaria, UNIZAR<br>– España (zoom) |
| 10:30 | Receso                                                                                                                                |                                                               |
| 10:45 | Patrón de variación diario de las conductas básicas, temperatura corporal, metabolitos y hormonas metabólicas en ovinos.              | Livia Pinto-Santini<br>Fac. Veterinaria, Udelar               |
| 12:15 | Almuerzo                                                                                                                              |                                                               |
| 14:00 | Comportamiento ingestivo y variaciones diarias en el ambiente ruminal en vacas lecheras. Efectos del sistema productivo y de la dieta | Alsiane Capelesso<br>Fac. Veterinaria, Udelar                 |
| 15:00 | Efecto de la hora del día sobre el comportamiento reproductivo y la calidad del semen en carneros                                     | Juan Carlos Orihuela<br>INIFAP – México (zoom)                |
| 16:00 | Receso                                                                                                                                |                                                               |
| 16:15 | Explicación de la actividad de evaluación y encuesta final del curso                                                                  | Livia Pinto-Santini y M.<br>Isabel Vázquez                    |
| 17:00 | Fin del Curso                                                                                                                         |                                                               |



## **Evaluación:**

Se considerará la participación activa durante el curso y, además, se realizará una evaluación final donde los estudiantes deberán diseñar un experimento para evaluar el impacto de un ritmo biológico, o su interrupción, sobre la respuesta productiva de los rumiantes. La propuesta deberá incluir la hipótesis, el objetivo general y el diseño del experimento.

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