

Prof. Raffaele Boni

CURRICULUM SCIENTIFICO

Settore Scientifico Disciplinare. Clinica Ostetrica e Ginecologia Veterinaria (VET/10)

Formazione. Laurea in Medicina Veterinaria (summa cum laude), Università degli Studi di Napoli (1988); Dottorato di Ricerca in Biotecnologie Applicate alle Scienze Veterinarie e Zootecniche, Università degli Studi di Milano (1992); Specializzazione in Alimentazione Animale, Università degli Studi di Napoli (1993).

Periodi di ricerca all'estero. Dept. Herd, Health and Reproduction, Utrecht (NL) e Embrytec bv, Zeist (NL) (10/1990-09/1991); Institute of Reproduction and Development, Monash University, Melbourne (Australia) (07/1996-09/1996).

Carriera. Professore associato VET/10, Università della Basilicata (10/2012- ad oggi); ricercatore VET/10, Università della Basilicata (11/1993-09/2012). Abilitato al ruolo di professore ordinario (2012).

Attività di ricerca. Si è occupato dello sviluppo e dell'applicazione di tecnologie riproduttive: dall'inseminazione strumentale alla produzione in vivo ed in vitro, conservazione e trasferimento di embrioni in specie animali di interesse zootecnico. Una particolare attenzione è stata rivolta alla messa a punto della tecnica di prelievo in vivo di ovociti per via transvaginale ecoguidata (Ovum Pick-Up). Di recente, l'interesse scientifico è rivolto principalmente alla valutazione della qualità dei gameti ed embrioni ed all'individuazione dei meccanismi alla base della maturazione dei gameti e della fecondazione. Dal 2004 – ad oggi è Membro del Comitato Editoriale della rivista *Theriogenology*.

Principali Pubblicazioni:

- Paciolla M, Boni R, Fusco F, Pescatore A, Poeta L, Ursini MV, Lioi MB, Miano MG. (2011) Nuclear factor-kappa-B-inhibitor alpha (NFKBIA) is a developmental marker of NF- κ B/p65 activation during in vitro oocyte maturation and early embryogenesis. *Human Reproduction* 26(5):1191-201.
- Silvestre F, Boni R, Fissore RA, Tosti E. (2011) Ca²⁺ signaling during maturation of cumulus-oocyte complex in mammals. *Molecular Reproduction and Development* 78:744-756.
- Silvestre F, Fissore RA, Tosti E, Boni R. (2012) Ca(2+) rise at in vitro maturation in bovine cumulus-oocyte complexes. *Molecular Reproduction and Development* 79(6):369-79.
- Boni R. (2012) Origins and effects of oocyte quality in cattle. *Animal Reproduction*, 9(3): 333-340.
- Boni R (2012) Ovum Pick-up in cattle – a 25-yr retrospective analysis. *Animal Reproduction*, 9(3): 362-369.
- Tosti E, Boni R, Gallo A, Silvestre F. (2013) Ion currents modulating oocyte maturation in animals. *Systems Biology in Reproductive Medicine* 59(2):61-8.
- Boni R, Perrone LL, Cecchini S. (2014) Heat stress affects reproductive performance of high producing dairy cows bred in an area of southern Apennines. *Livestock Science* 160:172-177.
- Bilotto S, Boni R, Russo GL, Lioi MB. (2015) Meiosis progression and donor age affect expression profile of DNA repair genes in bovine oocytes. *Zygote* 23(1):11-8.

ORARIO E SEDE DI RICEVIMENTO

Studio docente	Martedì	17.00-19.00
5° piano	Mercoledì	12.00-13.30
	Giovedì	12.00-13.30

INDIRIZZO EMAIL: raffaele.boni@unibas.it

RECAPITO TELEFONICO: 0971.205017 cell. 320.4371201



UNIVERSITA' DEGLI STUDI DELLA BASILICATA
DIPARTIMENTO DI SCIENZE

Prof. Raffaele Boni

CURRICULUM STUDIORUM

Education. Degree in Veterinary Medicine (summa cum laude), University of Naples (1988); PdD in Biotechnology Applied to Veterinary and Livestock Sciences, University of Milan (1992); Master in Animal Feeding, University of Naples (1993).

Research experience abroad. Dept Herd, Health and Reproduction, Utrecht (NL) and Embrytec bv, Zeist (NL) (from October 1990 to September 1991); Institute of Reproduction and Development, Monash University, Melbourne (Australia) From July to September 1996).

Employment history. Associate Professor at the University of Basilicata (October 2012- up to now); Researcher at the University of Basilicata (November 1993 to September 2012).

Research activity has been mainly addressed to develop and apply reproductive technologies, i.e., artificial insemination as well as in vivo and in vitro production of embryos and their preservation and/or transfer in livestock. Particular attention was paid to improve the technique of in vivo oocyte collection by transvaginal ultrasound-guided puncture (Ovum Pick-Up). Recently, the scientific interest has been directed primarily at assessing the quality of gametes and embryos and the identification of the mechanisms underlying the maturation of gametes and fertilization. 2004 - Up to date he is member of the Editorial Board of the journal *Theriogenology*.

Selected papers:

- Paciolla M, Boni R, Fusco F, Pescatore A, Poeta L, Ursini MV, Lioi MB, Miano MG. (2011) Nuclear factor-kappa-B-inhibitor alpha (NFKBIA) is a developmental marker of NF- κ B/p65 activation during in vitro oocyte maturation and early embryogenesis. *Human Reproduction* 26(5):1191-201.
- Silvestre F, Boni R, Fissore RA, Tosti E. (2011) Ca²⁺ signaling during maturation of cumulus-oocyte complex in mammals. *Molecular Reproduction and Development* 78:744-756.
- Silvestre F, Fissore RA, Tosti E, Boni R. (2012) Ca(2+)](i) rise at in vitro maturation in bovine cumulus-oocyte complexes. *Molecular Reproduction and Development* 79(6):369-79.
- Boni R. (2012) Origins and effects of oocyte quality in cattle. *Animal Reproduction*, 9(3): 333-340.
- Boni R (2012) Ovum Pick-up in cattle – a 25-yr retrospective analysis. *Animal Reproduction*, 9(3): 362-369.
- Tosti E, Boni R, Gallo A, Silvestre F. (2013) Ion currents modulating oocyte maturation in animals. *Systems Biology in Reproductive Medicine* 59(2):61-8.
- Boni R, Perrone LL, Cecchini S. (2014) Heat stress affects reproductive performance of high producing dairy cows bred in an area of southern Apennines. *Livestock Science* 160:172-177.
- Bilotto S, Boni R, Russo GL, Lioi MB. (2015) Meiosis progression and donor age affect expression profile of DNA repair genes in bovine oocytes. *Zygote* 23(1):11-8.

TIME and PLACE dedicate to students

His office	Tuesday	17.00-19.00
5th floor	Wednesday	12.00-13.30
	Thursday	12.00-13.30

EMAIL: raffaele.boni@unibas.it

TELEPHONE: 0971.205017 **mob.** 320.4371201

