

TERSIA NEEDHAM, PH. D

PERSONAL INFORMATION

Gender | Female
Marital Status | Unmarried
Languages | English & Afrikaans
Passport & Driver's Licence | Yes (Code B)
Computer Literacy | Microsoft Office & Statistica

NATIONALITY:
SOUTH AFRICAN
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DATE OF BIRTH:
18 AUGUST 1989



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EDUCATION AND AWARDS

PhD. Agric. (Animal Sciences) | Stellenbosch University 2015 – 2018 ISEF Student Travel Fellowship recipient (2015). South African Society for Animal Science Bronze Award (2015). Best Student Poster at 48th SASAS Congress (2015). Meat Industry Trust Postgraduate Bursary (2015-2017). Young Scientist Award ICoMST (2016). PGIO Travel Award (2016). Merit Award (2015-2016).

MSc. Agric. (Animal Sciences) | Stellenbosch University 2013 – 2014 Graduated *cum laude* (82 %). Recipient of SKILLS Scholarship at University of Wageningen (2014). National Research Foundation Innovation Scholarship (2013-2014). South African Pork Producers' Organization Bursary (2013-2014). Merit Award (2013).

BSc. Agric. (Animal Sciences) | Stellenbosch University 2009 – 2012 Graduated *cum laude* (86 %). Merit Bursary Award (2009).

Western Cape Education Department Matriculation Certificate | Cannons Creek Independent High School 2003 – 2007 Matriculation with distinction (89 %). Head Prefect 2007. Chairperson of the Matric Dance Committee 2005.

PUBLICATIONS

Needham, T., Laubser J., Kotrba R., Bureš D. & Hoffman L. 2020. Influence of ageing on the physical qualities of the *longissimus thoracis et lumborum* and *biceps femoris* muscles from male and female free-ranging common eland (*Taurotragus oryx*). Meat Sci. 159. In Press.

Needham, T., Laubser J., Kotrba R., Bureš D., Smyth, H. & Hoffman L. 2019. Sensory characteristics of the *longissimus thoracis et lumborum* and *biceps femoris* muscles from male and female common eland (*Taurotragus oryx*). Meat Sci. 158. In Press.

EXPERIENCE

Postdoctoral Fellowship Czech University of Life Sciences | 2018 - current

Assistant lecturer Stellenbosch University | 2015

Tutor Stellenbosch University | 2013

Internship Fairview Goat Dairy | 2012

Promotions Red Rooster & Top Promotions | 2008

Model Max Models Agency | 2005 – 2008

INTERESTS

I enjoy taking part in long distance triathlon events and swimming events. I have volunteered at Bambalela Wildlife Rehabilitation Centre and Newhampshire Rehabilitation Centre for abused horses, Ubuntu orphanage and local dog shelters (DARG).

RESEARCH SKILLS

Animal handling & husbandry; Feed formulation & nutritional studies; Meat & feed proximate analysis; Meat quality assessment; Behavioural analyses; Tissue histology, Semen evaluation; UPLC steroid evaluation

Needham, T., Laubser J., Kotrba R., Bureš D., & Hoffman L. 2019. Sex influence on muscle yield and physiochemical characteristics of common eland (*Taurotragus oryx*) meat. *Meat Sci.* 152, 41-48

Needham, T., Lambrechts, H. & Hoffman, L. 2019. Influence of extending the pre-slaughter interval after second vaccination on the carcass cutting yield and the quality of meat from immunocastrated lambs. *Meat Sci.* 148, 13-18.

Needham, T., Lambrechts, H. & Hoffman, L. 2019. Influence of immunocastration vaccine administration interval on serum androgen concentrations and spermatogenic activity in ram lambs. *Small Rum. Res.* 170, 82-90.

Needham, T., Lambrechts, H., & Hoffman, L. 2019. Application of immunocastration in a commercial Dohne Merino ram flock before weaning: a technical note. *South African J. Anim. Sci.* 85, 1115-1120.

Needham, T., Lambrechts, H., & Hoffman, L. 2019. Extending the interval between second vaccination and slaughter: I. Effects on growth, scrotal size and stress responses of immunocastrated ram lambs. *Animal.* 13, 1952-1961

Černý, J., Buyannemekh, B., **Needham, T.,** Gankhuyag, G. & Oyuntsetseg, D. 2019. Hard ticks and tick-borne pathogens in Mongolia—A review. *Ticks and Tick-borne Diseases.* In Press.

Needham, T., Lambrechts, H., & Hoffman, L. 2019. Extending the interval between second vaccination and slaughter: II. Changes in the reproductive capacity of immunocastrated ram lambs. *Animal.* 13, 1962-1971.

Needham, T., Hoffman, L.C. & R. Gous. 2017. Growth responses of entire and immunocastrated male pigs to dietary protein with and without ractopamine hydrochloride. *Animal.* 11, 1482-1487.

Needham, T., Lambrechts, H. & Hoffman, L. 2017. Castration of male livestock and the potential of immunocastration to improve animal welfare and production traits: Invited Review. *S. Afr. J. Anim. Sci.* 47, 731-742.

Needham, T., Lambrechts, H. & Hoffman, L.C. 2016. The influence of vaccination interval on growth, carcass traits and testicle parameters of immunocastrated ram lambs. *Small Rum. Res.* 145, 53-57.

Needham, T. & Hoffman, L.C. 2015. Carcass traits and cutting yields of entire and immunocastrated pigs fed increasing protein levels with and without ractopamine hydrochloride supplementation. *J. Anim. Sci.* 93, 4545-4556.

Needham, T. & Hoffman, L.C. 2015. Physical meat quality and chemical composition of the *Longissimus thoracis* of entire and immunocastrated pigs fed varying dietary protein levels with and without ractopamine hydrochloride. *Meat Sci.* 110, 101-108.

https://www.researchgate.net/profile/Tersia_Needham

CONFERENCES

International Congress of Meat Science and Technology, Potsdam
Poster | 2019

46th CSEIS conference, Bratislava
Poster | 2019

27th International Symposium Animal Science Days, Prague
Posters | 2019

Global Biodiversity Conservation Conference, Prague
Poster | 2018

International Congress of Meat Science and Technology, Melbourne
Poster | 2018

International Congress of Meat Science and Technology, Cork
Oral presentation & poster | 2017

International Congress of Meat Science and Technology, Bangkok
Oral presentation | 2016

South African Society for Animal Science, Stellenbosch Oral presentation | 2016

South African Society for Animal Science, Empangeni Oral presentation & 2 posters | 2015

POPULAR ARTICLES

Výživa a potraviny 2019: Kuchyně Jihoafrické republiky.

Živá 2019: Splní antilopy naše očekávání?

PORCUS 2015: The effects of immunocastration on the carcass quality and nutrient responses of growing pigs.

Landbouweekblad 2015: Gekasteerde bere presteer met regte rantsoen.

REFERENCES

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