



Staff Handbook

Department of Animal Sciences

Faculty of Agriculture, University of Syiah Kuala

Name	<i>Dr. Sukma Aditya Sitepu, S.Pt., M.Pt.</i>		
Post	<i>Animal Production and Reproduction</i>		
Academic career	<i>Bachelor's Degree in Animal Production</i>	<i>University of North Sumatra-Indonesia</i>	<i>2004-2009</i>
	<i>Master's Degree (M.Sc.) in Animal Science</i>	<i>University of North Sumatra-Indonesia</i>	<i>2009-2012</i>
	<i>Doctorate in Animal Science</i>	<i>Andalas University-Indonesia</i>	<i>2012-2019</i>
Employment	<i>Senior Lecturer</i>	<i>Animal Science</i>	<i>2024 - Present</i>
Research and development projects over the last 5 years	<i>1. Durability of Membrane Integrity and Acrosome Integrity of Sperm in Frozen Semen of Simmental Cattle with the Addition of Gentamicin and Sweet Orange Essential Oil (2020)</i> <i>2. Effect of Addition of Gentamicin and Sweet Orange Essential Oil on Motility, Viability and Abnormality of Sperm in Frozen Semen of Simmental Cattle (2020)</i> <i>3. Effect of Storage Length of Frozen Semen of Simmental Cattle with the Addition of Gentamicin and Sweet Orange Essential Oil on Motility, Viability and Abnormality of Sperm (2020)</i> <i>4. Effect of Giving Katuk Leaves on Milk Production of Etawa Crossbred Goats During the Lactation Phase (2021)</i> <i>5. Efficiency of Sheep Reproduction in the Implementation of Artificial Insemination in Langkat Regency (2022)</i> <i>6. Effect of Organizational Culture and Supply Chain Integration on the Performance of Sheep Farmers in Langkat Regency (2022)</i> <i>7. Sperm Quality Goats/Sheep in Andromed Diluent Added with Various Levels of Essential Oils (2023)</i> <i>8. Effect of Herbal Plant Extract Combination Supplementation on Goat/Sheep Sperm Quality (2023)</i> <i>9. Value Chain Model in Sheep Fattening Business in Langkat Regency (2023)</i> <i>10. Relationship of Body Condition Score (BCS) with Reproductive Performance and Financial Analysis of Sheep Parent Farming Business in Langkat Regency (2023)</i> <i>11. Analysis of the Level of Knowledge of Farmers About Goat and Sheep Reproduction in Bulu Cina Village (2023)</i> <i>12. Effect of Giving Turmeric Extract on the Membrane Integrity and Acrosome</i>		

	<i>Integrity of Sperm in Fresh Goat Semen (2023)</i> 13. <i>Inclusive Business Model of Farmers in the Sustainable Value Chain (SVC) of Sheep in Supporting the Sustainability of Livestock Business in Langkat Regency (2024)</i>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	1. Liquid goat/sheep semen with a combination of andromed and sweet orange essential oil extender (2023) 2. Herbal supplement for goat/sheep studs with a mixture of turmeric, mahkota dewa and ginger extracts (2023)
Important publications over the last 5 years	1. <i>Percentage Value Of Motility And Viability Of Spermatozoa In Boer Goat Frozen Semen Were Added Streptomycin And Sweet Orange Essential Oilm (2020)</i> 2. <i>Total Bacteria Of Post-Thawing Boer Buck Semen With Addition Of Sweet Orange Essential Oil To Tris Yolk Extender (2020)</i> 3. <i>Detection And Prevalence Of Gastrointestinal Helminthes In Samosir Goats On Samosir Island, North Sumatra, Indonesia (2020)</i> 4. <i>Training Of Liquid Semen Making For Cattle To Increase Cattle Population In Bahorok District, Langkat Regency (2021)</i> 5. <i>Time Interval Between Childbirth And Pregnancy In Sheep In Stabat District (2022)</i> 6. <i>Duration Of Estrus To Conception In The Artificial Insemination Program For Sheep In Langkat Regency, Indonesia (2022)</i> 7. <i>A Value Of Body Condition Score (BCS), Service Per Conception (S/C) And Calving Interval (Ci) Ongole Crossbreeds In Deli Tua District (2022)</i> 8. <i>Reproductive Efficiency In Artificial Insemination Of Sheep (2022)</i> 9. <i>Service Per Conception On Sheep In Langkat District (2023)</i> 10. <i>The Effect Of Turmeric Extract (Curcuma Longa) On Spermatozoa Motility In Fresh Semen Of Goats (2023)</i> 11. <i>Correlation Between Sheep Body Condition Score And Lambing Interval In Langkat District Of Indonesia (2023)</i> 12. <i>Turmeric Extract To Improve The Quality Of Fresh Semen Of Goats/Sheep (2023)</i> 13. <i>The Effect Of Giving Turmeric Extract On Membrane Integrity In Buck Spermatozoa (2023)</i> 14. <i>The Effect Of Purwoceng Extract On The Etawa Crossbreed Bucks Mating (2024)</i>
Activities in specialist bodies over the last 5 years	1. <i>ISPI (Member) : 2019-present</i> 2. <i>HILPI (Member) : 2024-present</i> 3. <i>PERIPI (Member) :2022-present</i>