

## "Transcriptome Analysis for the Improvement of Local Livestock: Genomic Technology and Precision Animal Breeding "



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Prof. Dr. Asep Gunawan is a Professor of Animal Breeding and Genetics in the Department of Animal Production and Technology, Faculty of Animal Science, IPB University (Bogor Agricultural University), Indonesia. He obtained his Master's and Doctoral degrees from the University of Bonn, Germany. His research focuses on transcriptomics, molecular and quantitative genetics, genomic selection, and the application of biotechnology to support sustainable livestock production. One of his major innovations is the development of premium sheep, supported by molecular markers and diagnostic kits for precision selection of superior breeding stock and high-quality meat. These sheep exhibit improved meat quality traits, including low cholesterol, reduced off-odour, high unsaturated fatty acid content, superior tenderness, and rich mineral composition, and have been disseminated to sheep breeding centers across Indonesia. Prof. Gunawan has published more than 111 scientific papers (h-index 16) and authored 10 books. He is a frequent keynote speaker, maintains extensive international collaborations, and is strongly committed to teaching, academic mentorship, and academic governance.