

## STAFF HANDBOOK

Name / Nama	Prof. Dr. Muhammad Ihsan Andi Dagong, S.Pt., M.Si
Position / Bidang keilmuan	Genetics and Livestock Breeding
Academic career / Riwayat Pendidikan	S1 - Department of Animal Science, Faculty of Animal Husbandry - Hasanuddin University (1995-1999) S2 - Magister of Agribusiness, Graduate School - Universitas Hasanuddin (2007-2009) S3 – Doctor of Animal Science, Faculty of Animal Science - Institut Pertanian Bogor (2014-2019)
Employment / Pekerjaan	Lecturer at the Faculty of Animal Husbandry, Hasanuddin University
Research and development projects over the last 5 years / Riwayat penelitian 5 tahun terakhir	<ul style="list-style-type: none"> <li>● Enhancing Sustainable and Green Leather Technology in Indonesia</li> <li>● Genetic Comparison Between Malaysian Katjang Goat with Indonesian Kacang Goat Using Microsatellite DNA Markers</li> <li>● Genetic Diversity and Structure of Indonesian Local Goat Based on Single Nucleotide Polymorphism (SNP) and Microsatellite (SSR) DNA Markers</li> <li>● Genetic Characterization of Indonesian Local Chickens Based on Whole Genome mtDNA Sequencing</li> <li>● Genetic Characterization of Lakor and Kacang goats from the Eastern Part of Indonesia Based on ND2 and ND5 Mitochondrial Gene Genetic Variation</li> <li>● Selection of Growth Traits, Feed Efficiency, and Disease Resistance Based on DNA Markers and Deep RNA Sequencing to Produce New Breeds of Superior Broiler Chickens (Allope Chicken Strain)</li> <li>● Genetic Characterization of Local Indonesian Goats Based on Whole Genome mtDNA Sequencing</li> </ul>

- Study of the Association of Polymorphisms in Genes Controlling Growth Traits and Disease Resistance in Local Chickens Resulting from Crossbreeding Between Bangkok-Kalosi (BKp) and Pelung-Allope (PAP)
- Production of Local Hybrid Ducks from Crossbreeding Between Pekin and Local Breeds as Superior Meat Ducks: A University Innovation Product
- Identification of carcass quality and fatty acid profile of duck meat from crossbreeding between Pekin and local South Sulawesi ducks
- Reproductive Performance and Fertility of Horned and Polled Bali Cattle
- Gene Expression Profile Controlling Fatty Acids and Meat Quality in Village Chickens Using Deep RNA Sequencing Method
- Study on the Relationship between Polymorphisms in Genes Controlling Growth Traits and Disease Resistance in Local Chickens Resulting from Crossbreeding Between Bangkok-Kalosi (BKp) and Pelung-Allope (PAP)
- Production of Local Hybrid Ducks from Crossbreeding Between Pekin and Local Breeds as Superior Meat Ducks: An Innovative Product of the University
- Identification of Meat Quality and Fatty Acid Profile of Duck Meat from the Crossbreeding of Pekin and Local South Sulawesi Ducks
- Reproductive Performance and Fertility of Horned and Hornless Bali Cattle
- Gene Expression Profile Controlling Fatty Acids and Meat Quality in Village Chickens Using Deep RNA Sequencing Method

<p>Industry collaborations over the last 5 years / Kolaborasi dengan industry 5 tahun terakhir</p>	<ul style="list-style-type: none"> <li>● BRIN in the development of Superior Alope Chickens</li> <li>● Erasmus</li> </ul>
<p>Patents and proprietary rights / Paten dan HKI</p>	<ul style="list-style-type: none"> <li>● Concentrated feed formulation containing cocoa pulp for fattening Bali cattle</li> <li>● Protein G3x800 (ENSBTAP00000046312) as a fertility biomarker in Bali cattle semen plasma</li> <li>● Smart Livestock System</li> </ul>
<p>Important publications over the last 5 years / Publikasi penting 5 tahun terakhir</p>	<ul style="list-style-type: none"> <li>● Genetics polymorphisms of inha in local goat populations in south-west sulawesi region of Indonesia</li> <li>● Indonesian native goats (<i>Capra hircus</i>) reveal highest genetic frequency of mitochondrial DNA haplogroup B in the world</li> <li>● Effect of cocoa pulp level mixed with feed concentrate on performance and blood metabolite profiles of dry-lot fattening bali steers</li> <li>● The physiochemical properties of kefir using honey concentrations</li> <li>● Geographical contrasts of Y-chromosomal haplogroups from wild and domestic goats reveal ancient migrations and recent introgressions</li> <li>● Growth Traits and Carcass Characteristics of Kalosi Chicken Selected Based on Residual Feed Intake (RFI) Phenotype</li> <li>● Comparison of Fresh and Cryopreserved Semen Quality of Polled and Horned Bali Bulls</li> <li>● Study of Kosta goat (<i>Capra hircus</i>) mitochondrial DNA and their phylogenetic based on whole genome sequencing</li> <li>● The Sperms Post-Thawing Quality and Proteomic Seminal Plasma on Fertility Performance of Bali-Polled Bull</li> <li>● Comparison of horned, polled Bali cattle and Banteng based on microsatellite markers</li> <li>● Genomic analysis reveals the association of KIT and MITF variants with the white spotting in swamp buffaloes</li> </ul>

	<ul style="list-style-type: none"> <li>● Genetic Diversity of Insulin-Like Growth Factor 1 (IGF-1) and Its Association with Growth Properties of Allope Chickens</li> <li>● Complete Genomic Landscape Reveals Hidden EvolutionaryHistory and Selection Signature in Asian Water Buffaloes(Bubalus bubalis)</li> </ul>
<p>Activities in specialist bodies over the last 5 years / Aktifitas berkaitan dengan bidang keahlian dalam 5 tahun terakhir (contoh: menjadi narasumber, tenaga ahli dll.)</p>	<ul style="list-style-type: none"> <li>● Presenter at The 3<sup>rd</sup> International Conference of Animal Science and Technology</li> <li>● Presenter at The 5<sup>rd</sup> International Conference of Animal Science and Technology</li> </ul>