

Danang Crysnanto

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Education

ETH Zurich <i>Doctoral in Animal Genomics</i>	Dec 2017 – Present Zurich, Switzerland
The University of Edinburgh <i>Msc in Quantitative Genetics and Genome Analysis with Distinction</i>	Aug 2016 – Aug 2017 Edinburgh, UK
Bandung Institute of Technology <i>Bsc in Biology (Genetics) with Cum Laude</i>	Oct 2010 – Oct 2014 Bandung, Indonesia

Publications

First-author publications

1. **Crysnanto D.**, A. S. Leonard, Z. H. Fang, and H. Pausch, 2021. Novel functional sequences uncovered through a bovine multi-assembly graph. Accepted *Proceedings of the National Academy of Sciences USA*
2. **Crysnanto D.**, and H. Pausch, 2020. Bovine breed-specific augmented reference graphs facilitate accurate sequence read mapping and unbiased variant discovery. *Genome Biology*. 21:184
3. **Crysnanto D.**, C. Wurmser, and H. Pausch, 2019. Accurate sequence variant genotyping in cattle using variation-aware genome graphs. *Genetics Selection Evolution* 51:21
4. **Crysnanto D.**, and D. J. Obbard, 2019 Widespread gene duplication and adaptive evolution in the RNA interference pathways of the *Drosophila obscura* group. *BMC Evolutionary Biology* 19:1

Co-author publications

5. Nosková A., M. Bhati, N. K. Kadri, and **D. Crysnanto** et al., 2021 Characterization of a haplotype-reference panel for genotyping by low-pass sequencing in Swiss Large White pigs. *BMC Genomics* 1–30
6. Nosková A., C. Wurmser, **D. Crysnanto**, A. Sironen, P. Uimari, et al., 2020 Deletion of porcine BOLL is associated with defective acrosomes and subfertility in Yorkshire boars. *Animal Genetics* 51: 945–949
7. Fang Z. H., A. Nosková, **D. Crysnanto**, S. Neuenschwander, P. Vögeli, et al., 2020 A 63-bp insertion in exon 2 of the porcine KIF21A gene is associated with arthrogryposis multiplex congenita. *Animal Genetics* 51: 820–823
8. Hiltpold M., G. Niu, N. K. Kadri, **D. Crysnanto**, Z. H. Fang, et al., 2020 Activation of cryptic splicing in bovine WDR19 is associated with reduced semen quality and male fertility. *PLoS Genetics*. 16: 1–27
9. Bhati M., N. K. Kadri, **D. Crysnanto**, and H. Pausch, 2020 Assessing genomic diversity and signatures of selection in Original Braunvieh cattle using whole-genome sequencing data. *BMC Genomics* 21(1)

Invited Talks

CIGENE Seminar Series Talk title: Bovine pangenomics	March 2021 NMBU Norway
International Virtual Animal Breeding Journal Club Talk title: Bovine pangenomics	Sept 2020 USDA USA
Plant and Animal Genome Conference (PAG) Talk title: Bovine pangenome graph enables unbiased genetic variants discovery	Jan 2020 San Diego USA
Livestock Genomics session - Genome Informatics Talk title: Development of graph-based genotyping pipelines for bovine whole-genome data	Sept 2018 Cambridge UK
Population Genetics (PopGroup) Conference Talk title: Widespread gene duplications in <i>Drosophila</i> immune system pathways	Jan 2018 Oxford UK

Awards

Sir Kenneth Mather Memorial Prize Annual award for a MSc or PhD student of any UK University or Research Institutions which shown an outstanding performance in the area of quantitative and population genetics.	Jan 2018 The Genetics Society
The Douglas Falcone Prize Annual award for the best master's thesis in Quantitative Genetics and Genome Analysis	Oct 2017 The University of Edinburgh
Bronze Medalist 21st International Biology Olympiad Winning a medal on a highly prestigious International bioscience Olympiad	Aug 2010 International Biology Olympiad