

Danang Crysnanto

08.01.1992
Citizen of Indonesia

Hoffeld 24 8057 Zurich
danangcrysnanto@gmail.com

Education

ETH Zurich

Doctoral in Animal Genomics

Dec 2017 – Present

Zurich, Switzerland

The University of Edinburgh

Msc in Quantitative Genetics and Genome Analysis with Distinction

Aug 2016 – Aug 2017

Edinburgh, UK

Bandung Institute of Technology

Bsc in Biology (Genetics) with Cum Laude

Oct 2010 – Oct 2014

Bandung, Indonesia

Publications

1. **Crysnanto D.**, A. S. Leonard, Z. H. Fang, and H. Pausch, 2021. Novel functional sequences uncovered through a bovine multi-assembly graph. *Proceedings of the National Academy of Sciences USA (PNAS)* 118:20
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
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* 22:290
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. Hiltbold 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*. 16:5
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* 21:27

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 *Drosophila* immune system pathways

Jan 2018

Oxford UK

Awards

Sir Kenneth Mather Memorial Prize

An 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 Falconer Prize

An award for the Best Master Thesis in Quantitative Genetics and Genome Analysis

Oct 2017

The University of Edinburgh

Bronze Medalist 21st International Biology Olympiad

Won a medal on a highly prestigious International Bioscience Olympiad

Aug 2010

International Biology Olympiad