# VETERINARY SCIENCE DAY – PROGRAM

## From Algorithms to Animals

## The Role of AI in Veterinary Science

**VSD 2025**

| Time | Event |
|---|---|
| 8:30-9:10 | Registration, poster mounting, presentation uploading |
| 9:10-9:30 | Opening and introduction of awards |
| 9:30-10:30 | Plenary session 1 |

| Time | Session |
|---|---|
| 9:30-9:50 | Frank van Steenbeek - *AI in multispecies cardiology* |
| 9:50-10:10 | Bart Westendorp - *Automated quantification of DNA replication dynamics* |
| 10:10-10:30 | Poster pitches |

| Time | Event |
|---|---|
| 10:30-11:10 | Coffee and tea break, poster viewing |
| 11:10-12:40 | Parallel session 1 |

| Time | *Innovative methods and technologies* **Ionazaal** | *Fundamental research* **Grote tuinzaal** |
|---|---|---|
| 11:10-11:25 | E. Kritsi - *AI and CT scanning to detect of liver and heart conditions in broiler chickens during post-mortem inspections* | J. Su - *Caco-2-based intestinal mucosal model to study intestinal barrier properties and bacteria-mucus interactions* |
| 11:25-11:40 | K. Libera - *Automated detection of asymmetrical udders in dairy goats using deep learning-based imaging* | M. Kuipers - *Novel proteomics and machine learning strategies to investigate cellular uptake of cancer-derived extracellular vesicles* |
| 11:40-11:55 | J. van den Ende - *Development of live-cell imaging assay to elucidate spatiotemporal dynamics of extracellular vesicle fusion with target cells* | M. Blasioli - *Human milk extracellular vesicles drive GFAP expression and affect proliferation in differentiating neural stem cells in vitro* |
| 11:55-12:10 | A. Maaskant - *A method for profiling microbiome biomarkers from fecal images in nonhuman primates* | I. Arends - *Erratic DNA replication and aneuploidy in early mammalian embryos* |
| 12:10-12:25 | B. Rodenburg - *Validation of a smart camera system for animal welfare surveillance in the slaughterhouse* | M. Delemarre - *Holy cow! Using bovine organoids for pharmacokinetics* |
| 12:25-12:40 | R. Levato - *Adaptive and context-aware volumetric printing* | A. Musi - *High-throughput multi-drug screening for identifying new therapies in mucosal melanoma* |

| 12:40-13:50 | Lunch break |
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| 13:50-14:55 | Plenary session 2 |

| 13:50-14:10 | Thijs van Loon - *AI-supported recognition of facial expressions of pain in horses* |
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| 14:10-14:30 | Mona Giersberg - *The AI & Animal Welfare Lab – a transdisciplinary initiative for the responsible development and use of AI for animal welfare* |
| 14:30-14:50 | Daniel Hurdiss - *ZOOming in on Animal Pathogens at the Faculty of Veterinary Medicine* |
| 14:50-14:55 | Announcements |

| 14:55-15:35 | Coffee and tea break, poster viewing |
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| 15:35-16:35 | Parallel session 2 |

| | *Clinical research* **Ionazaal** | *Infectious diseases* **Grote tuinzaal** |
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| 15:35-15:50 | P. Virankabutra - *Unraveling Pain: the effect of canine osteoarthritis on the peripheral nerves of the dorsal root ganglion* | A. Segers - *Silicone wristbands as microbial exposure samplers* |
| 15:50-16:05 | M. van den Berg - *Prognostic value of the Ki-67 proliferation index and a histopathological scoring system in dogs with pheochromocytoma* | M. Pals - *Staphylococcus caprae is associated with asymmetry in udders of dairy goats* |
| 16:05-16:20 | E. den Boer - *Effect of ATP7A and ATP7B gene variants on treatment response in Labrador Retrievers with hepatic copper accumulation* | A. Lotterman - *Presence of common causative agents of pneumonia among pneumonia patients, goat farmers and neighboring residents* |
| 16:20-16:35 | R. Corbee - *Efficacy and safety of cannabidiol oil in cats with osteoarthritis* | L. van Uden - *Characterization of a novel in vitro rhesus macaque liver model to study malaria* |

| 16:45-17:45 | **Keynote** by Bernice Bovenkerk - *Animals and AI: ethical issues arising from AI for the human-animal relationship* |
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| 17:45-18:00 | Award ceremony and closing of the Veterinary Science Day |
| 18:00-20:30 | Dinner |