

2018 RESEARCH ALLIANCE INTERESTS

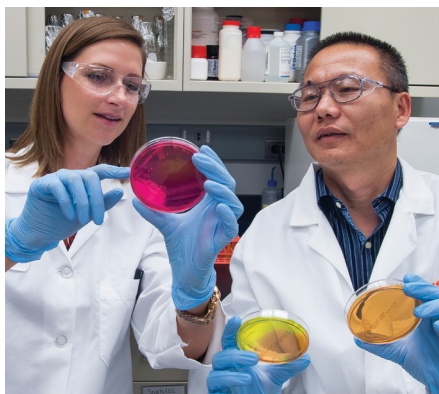
Zoetis seeks innovations that can change the landscape of entire research programs or platforms. We are looking for collaborations that bring valuable innovations from other healthcare or life science sectors.

Digital healthcare, machine learning applied to pharmaceutical R&D, and **genomics, transcriptomics** or **proteomics** enabling rational drug and vaccine design are areas of emphasis.

THERAPEUTICS (small molecules, therapeutic mAbs and proteins)



- Chronic pain and inflammation
 - novel biomarkers
 - disease-modification of osteoarthritis
 - no interest in corticosteroids, opiates or NSAIDS
 - Immunomodulation
 - anti-infective immunopotentiators and antiparasitics
 - immunoregulatory pathways such as pattern recognition receptors, check point inhibitors, host defense peptides, cytokines/chemokines
 - Chronic renal disease
 - disease-modification
- Antiparasitics
 - heartworm prevention (resistant L4)
 - novel MOA for flea and tick repellent/prevention
 - Antibiotic alternatives
 - bacteriophages, antimicrobial peptides, direct immunological approaches
 - antibiotic potentiators
 - Livestock performance
 - mammary gland health
 - reproduction efficiency
 - new mechanistic pathways in milk and muscle production
 - microbiome modulators/modulation of gut health



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VACCINES

- Novel adjuvants
 - adjuvants for mucosal immunization or parenteral immunization procedures to induce mucosal immunity
- Metagenomic identification of clinically relevant novel disease agents in livestock and poultry
- Rational vaccine design
- Alternative potency assay technologies
- Vectors for cattle/companion animal vaccines



BIOINFORMATICS

- Integrative software
 - clinical data, RNAseq, and 'omics data
 - canine breed database with tissue for genotyping



TECHNOLOGIES

- Commercializable antibody, protein, and/or peptide expression systems (>5g/L)
- Biomarkers and phenotypic screens relevant to therapeutic and vaccine areas
 - cattle tick burden biomarker
 - transgenic models for target ID/validation
 - safety and immunogenicity prediction for antibodies/proteins
- Formulation
 - enhanced stability/palatable/taste masking
 - oral delivery of vaccines
 - vaccine delivery/injection devices for livestock
 - long-acting injectable formulation systems
 - dissolution & in vitro/in vivo correlations



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