Zoetis seeks innovation that can change the landscape of entire research programs or platforms arising from collaborations across all healthcare or life science sectors. Digital healthcare, machine learning and diagnostic techniques applied to pharmaceutical R&D, and genomics, transcriptomics or proteomics enabling rational drug and vaccine design are areas of emphasis.

### Therapeutics
*(small molecules, therapeutic antibodies and proteins)*

- **Chronic pain and inflammation**
  - disease-modification of osteoarthritis
  - long-acting pain management
  - no interest in corticosteroids, opiates, NSAIDs, or cannabinoids

- **Immunomodulation**
  - immunoregulatory pathways
  - pattern recognition receptor agonists / antagonists
  - immune check point inhibitors
  - host defense peptides

- **Chronic renal disease - disease-modification**

- **Antiparasitics**
  - resistant heartworm prevention
  - novel mechanisms for flea and tick prevention
  - Integrated solutions for parasite management

- **Antibiotic alternatives**
  - antimicrobial peptides
  - direct immunological approaches

- **Livestock health**
  - mammary gland health and improved milk production
  - reproduction efficiency
  - transition cow metabolic health
  - gut health anti-inflammatories
  - Feed efficiency and greenhouse gas reduction
  - non-antibiotic liver abscess prevention in beef cattle
Vaccines

- **Novel adjuvants**
  - Mucosal route of administration requiring novel mucosal adjuvants
- **Mucosal immunity adjuvants or procedures**
  - TLR agonists
  - Synthetic poly i:c
  - Oral vaccine / adjuvant technologies
  - Mass vaccine administration
- **Vectors for cattle and companion animal vaccines**
  - mRNA vaccines and therapeutic vaccines
  - Antiparasite vaccines
  - Alternative potency assay technologies

Bioinformatics

- **Integrative software**
  - Clinical data, and multi-omics data
  - Databases across tissue and disease types
- **Digital integrated solutions for livestock**
- **Artificial intelligence and machine learning applied to animal health**

Diagnostic Technologies

- **Point of care**
  - Urinalysis
  - Hematology
- **At-home diagnostics**
- **Multiplexing and microfluidics integration**
- **Simultaneous multiple sample processing**

Technologies

- **Commercializable antibody, protein, and/or peptide expression systems (>5g/L)**
- **Novel biomarkers and phenotypic screens relevant to therapeutic and vaccine areas (pain, renal, etc.)**
  - Transgenic models for target ID/validation
  - Ex vivo tissue / co-culture models of disease
- **Metagenomic identification or progression of clinically relevant diseases**
- **Formulation or Delivery Technologies**
  - Enhanced stability/palatants/ taste masking
  - Vaccine implants, microparticle-based, aerosols, topical spray, and oral delivery
  - Vaccine delivery/injection devices for livestock
  - 3-12 month long-acting injectables
  - Transdermal delivery for cats

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To explore a research alliance with Zoetis, please visit [https://www.zoetis.com/innovation/strategic-partnerships](https://www.zoetis.com/innovation/strategic-partnerships)

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