

# Merck Animal Health: Partnering Areas of Interest

Through our commitment to The Science of Healthier Animals®, Merck Animal Health is actively looking for partners with significant potential to leverage transformative technologies and develop products and solutions that will directly address customer needs and further advance the animal health industry. In particular, we are interested in entering new or adjacent areas of expertise, which complement our existing portfolio and R&D resources and programs.

## PHARMACEUTICALS & BIOLOGICS

### Immunology & Inflammation

- Allergic dermatitis
- Disease-modifying osteoarthritis drugs

### Pain, Neuroscience & Ophthalmology

- Pain management, other than NSAIDs
- Keratoconjunctivitis sicca

### Diabetes & Endocrinology

- Diabetes
- Pancreatitis
- Cushing's Disease

### Cardiovascular

- Disease-modifying therapeutics for congestive heart failure

### Renal Disease (excluding antihypertensive therapeutics)

### Oncology

### Growth & Performance in Livestock

- Novel, non-steroidal approaches
- Biologics & biotechnological approaches

### Reproduction

- Novel tools for managing the estrus cycle or enhancing fertility
- Non-surgical castration methods

### Anti-Infectives

- Antibacterials including non-conventional (i.e., non-antibiotic antimicrobial approaches)
- Immunomodulation

### Parasiticides

- Ectoparasiticides
- Endoparasiticides

## DELIVERY SYSTEMS

### Transdermal delivery

- Penetration enhancers

### Implants

- Biodegradable and non-biodegradable
- Zero order release with no initial burst
- Delivery time from weeks to months

### Injectable Delivery

- Injection devices capable of injecting large volumes
- Technologies for delivery of water-insoluble compounds

### Oral Delivery Technologies

- Taste masking technologies
- Ingredients or formulations that can enhance permeability
- Novel oral protein / peptide delivery systems (e.g., insulin)
- Novel solubilizing excipients with accompanying toxicology package

### Vaccine delivery technologies for whole viruses or bacteria

### Technology-driven solutions that improve the administration of our products

## VACCINES

### Viral, bacterial and parasitic vaccine candidates in areas of high medical need

### Reduced dose or increased cross-strain protection

### Therapeutic vaccines for non-infectious diseases

### Vaccine candidates against emerging diseases

### Food safety

### New disease models

### Novel technologies for:

- Protective antigen discovery & vaccine storage technologies
- Biomarkers as predictive factors
- Sterile mixing
- Thermostability
- Novel adjuvants and immunomodulators (including mucosal)
- Novel cell lines and culture systems
- Protein expression systems
- Earlier onset of immunity and longer duration of immunity
- Overcoming maternal antibody interference