Animal health research to improve small ruminant productivity in Ethiopia

Identifying constraints

**Literature review**
Systematic literature review with meta-analysis to derive pooled prevalence estimates and identify regional/seasonal differences

**Participatory methods**
Bring in the view of farmers on disease constraints and their production related effects

**Sero-surveys**
Address knowledge gaps in literature and validate findings of participatory research using the latest diagnostic tools

**Predictive models**
Assess the impact and risk of diseases in changing production systems (intensification, climate change)

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**Disease constraints**

**Respiratory diseases**
- Contagious caprine pleuropneumonia
- Peste des petits ruminants
- Pasteurellosis

**Reproductive diseases**
- Brucellosis
- Clamydiosis
- Toxoplasmosis

**Parasites**
- Coenurosis
- Gastro-intestinal parasites
- Ecto-parasites

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**Field research**
- Local, national or regional disease control programs
- Herd health approach incorporating health, husbandry, and animal welfare issues
- Gender-responsive interventions
- Rational use of antimicrobials

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**Discovery research**
- Vaccine development: CCPP, PPR, sheep and goat pox, RVF
- Point of care diagnostic tools: CCPP
- Molecular epidemiology

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**Improve access to products and services**
- Testing different business models for animal health service delivery
- Capacity building interventions at different levels (farmers, community animal health workers, animal health assistants, veterinarians, policymakers)
- Technology transfer of developed vaccines and diagnostic tools

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