

THE BRUCELOSIS VACCINE PRIZE

US \$30 million prize competition

Incentivizing organizations to develop a vaccine for use against *Brucella melitensis* in small ruminants across the developing world



GALVmed/Karel Prinsloo



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HAVE A WINNING IDEA?

Learn more and apply online:
www.brucellosisvaccine.org

Questions? ✉ brucellosis@galvmed.org

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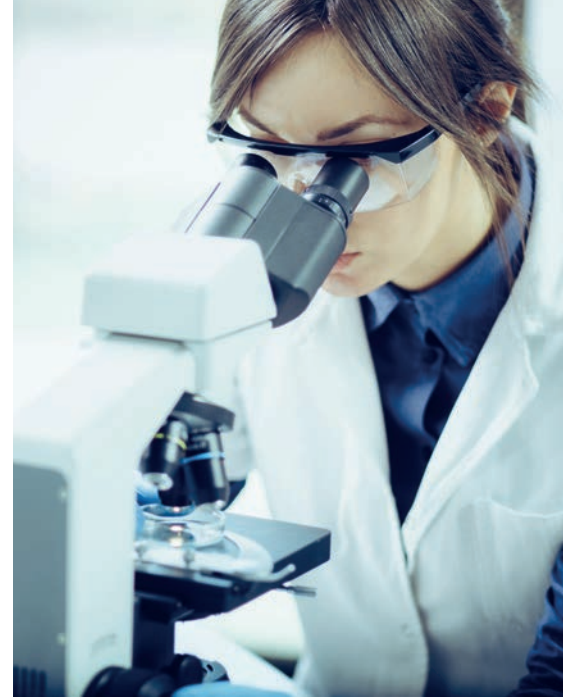
CALLING ALL ANIMAL HEALTH INNOVATORS

The Brucellosis Vaccine Prize is a global competition funded by AgResults and implemented by the Global Alliance for Livestock Veterinary Medicines (GALVmed).

It invites vaccine developers ('Solvers') to submit their proposals for – and ultimately develop – a suitable vaccine that is efficacious, safe and viable for use against *Brucella melitensis* in small ruminants across the developing world.

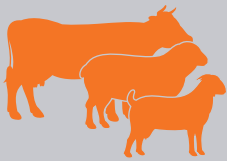
Are you a Solver?

The competition is open to any organization that has the ability to develop vaccines. That may include animal health, biotech and pharmaceutical companies, as well as academic and research institutions. Organizations are welcome to partner with third parties if they need additional expertise or capabilities. Visit the partner portal at www.brucellosisvaccine.org/partners to identify potential partners



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THE CHALLENGE: BRUCELLOSIS



Brucellosis is a costly disease that affects livestock and causes abortions, infertility, decreased milk production and weight loss.



The annual impact of brucellosis to smallholder farmers (SHFs) in South Asia and Sub-Saharan Africa is estimated at **US \$500 million per year.**



It is a costly, zoonotic disease – there are approximately **500,000 new human cases** of brucellosis reported annually.



There are challenges and drawbacks associated with current vaccines, including safety in pregnant animals, variable efficacy, and potential harm to humans.

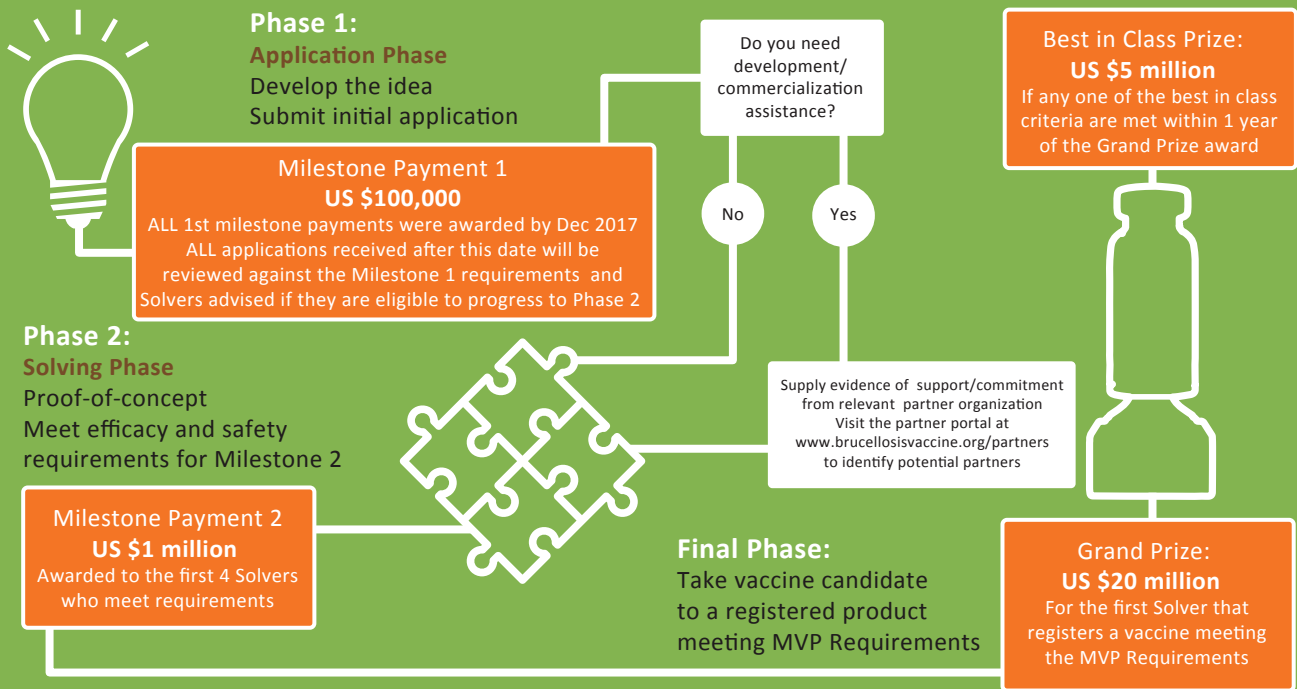
BY ENTERING THE COMPETITION, SOLVERS HAVE THE OPPORTUNITY TO:

Win a share of the US \$30 million total prize fund
Phased milestone prizes help to cover R&D costs

Have a transformative impact on the lives of 600 million people in developing countries whose livelihoods depend on livestock
Helping to improve both animal and human health

Extend your reach into emerging markets
Help to lead brucellosis control in the developing world

BRUCellosis VACCINE PRIZE JOURNEY



GRAND PRIZE FOR THE FIRST SOLVER THAT REGISTERS A VACCINE MEETING THE MVP

To win the Grand Prize of US \$20 million, the winning vaccine will need to meet all the requirements set out in the Minimum Viable Product (MVP), and will ideally overcome all current hurdles that inhibit the safety and efficacy of current *B. melitensis* vaccines in developing countries.

Full details of the MVP requirements can be found in Appendix 3 of the official Competition Rules.

Considerations for the MVP include:



SPECIES *B. melitensis* in sheep or goats



SAFE Safe for pregnant animals (Less than 5% abortion)



EFFICACIOUS More than 80% animals protected



SMALL HOLDER FARMER FRIENDLY Affordable cost, long shelf life

ADDITIONAL US \$5 MILLION PRIZE OPPORTUNITY FOR BEST IN CLASS

A US \$5 million prize will be available to Solvers that develop a vaccine that meets the MVP requirements and any one of the Best in Class criteria. The Best in Class prize will be open to Solvers for one year after the award of the Grand Prize.

Best in Class criteria include:

- **CROSS-SPECIES PROTECTION** Protect against both *B. melitensis* in small ruminants and *B. abortus* in cattle
- **SAFETY** Providing maximum human and animal safety (e.g. inactivated)
- **THERMORESISTANCE** Effective at 45 degrees centigrade for 3 weeks
- **CURATIVE** Curative/therapeutic effect on infected animals



THERE IS STILL TIME TO APPLY

Commercial and academic organizations are invited to enter the competition independently, or alternatively to visit the competition's online partner portal, via which potential collaborators may join

forces and proceed through the Solving Phase – at the end of which four prizes of US \$1m are available.

Access the portal at www.brucellosisvaccine.org/partners

LEARN MORE AND APPLY ONLINE: www.brucellosisvaccine.org



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AgResults is a US \$118 million multilateral initiative between the governments of Australia, Canada, the UK and US and the Bill & Melinda Gates Foundation to incentivize and reward high-impact agricultural innovations that promote global food security, health, and nutrition and benefit smallholder farmers.

The implementation of the Brucellosis Vaccine Prize will be managed by the Global Alliance for Livestock Veterinary Medicines (GALVmed), an international not-for-profit company. GALVmed, through its partners, makes livestock vaccines, medicines and diagnostics accessible and available to smallholder farmers in developing countries.

THE AGRESULTS INITIATIVE IS A PARTNERSHIP BETWEEN:

