



Who's Who in One Health

Template for posting One Health Organization/Group Information

Please fill out and return to <mailto:ohc@onehealthcommission.org>

1. Organization/ Group Name and website url:



PATH

www.path.org

2. Description and Scope of One Health Activities

PATH's work in global health includes innovations at the interface of human, animal, and environmental health. Examples of PATH's One Health work include:

- PATH has developed a heat-stable fast-dissolving tablet (FDT) to facilitate the immunization of backyard poultry against Newcastle Disease (ND) in low-resource settings. ND is one of the biggest global threats to rural poultry, livelihoods, and consequently, human health. By recognizing the link between human and livestock health, this innovative tablet enables the world's poor to protect their chickens against ND by making it easier and cheaper for poor farmers to transport, store, and use the ND vaccine. This innovation was commissioned by the Global Alliance for Livestock Veterinary Medicines (GALVmed) and funded through GALVmed by the Bill & Melinda Gates Foundation and the UK Department for International Development (DFID). Additional collaborators include the United States Department of Agriculture (USDA) and the University of Washington.
- Similarly, PATH has been working with a freeze drying (lyophilization) platform that helps to preserve and stabilize vaccines to meet the temperature, transport, and storage needs of countries and communities with limited refrigeration capabilities. PATH has used this technology for the human H1N1 vaccine as well as in conjunction with the FDT technology for backyard poultry Newcastle vaccination.
- PATH's work in diagnostics recognizes the complex interactions between animal and human health, including the implications of zoonosis for human health. PATH is exploring and working on variety of diagnostic tools to detect animal diseases, including:
 - Newcastle Disease in poultry
 - Contagious caprine pleuropneumonia (CCPP) in goats and sheep
 - Contagious bovine pleuropneumonia (CBPP) in cattle
 - Bovine Tuberculosis (BT) in cattle
 - Pest des petits ruminants (PPR), also known as "goat plague," in goats and sheep
 - East Coast Fever (ECF) in cattle and buffalo
 - Brucellosis in both humans and animals

- Access to healthy livestock plays an important role in livelihoods, food security, and nutritional outcomes in the developing world. Sustainable animal source foods provide an important source of proteins, amino acids, vitamins, and minerals for people around the world while also protecting the environment. As such, PATH is working to promote livestock health and environmental stewardship by realizing the potential of sustainable animal source foods to address global malnutrition. PATH's current work is exploring how underutilized animal source foods such as edible insects, eggs, and small rodents can contribute to both environmental sustainability and improved human health. For example, the palm weevil larva in Ghana and the mopane caterpillar in the Democratic Republic of Congo are locally recognized, low environmental-impact, and culturally appropriate sources of animal protein that can be tapped for improved nutrition and health, income opportunities, and women's empowerment. Substitution of these sustainable animal food sources for large livestock or bush meat consumption thus also contributes to planetary health.
- PATH recognizes the relationship between human health and the environment and the integral role that the gut microbiome plays in human health. Accordingly, in this emerging field, PATH is exploring innovative interventions, drugs, and diagnostics to address environmental enteropathy.

3. Key Collaborators / Participants and contact information

Peiman Milani, Project Director, Nutrition Innovation, pmilani@path.org
 Katharine Kreis, Director of Strategic Initiatives, kkreis@path.org

4. Type of Organization

International nonprofit organization.

5. Address of Organization/ Group

2201 Westlake Avenue #200, Seattle, WA 98121, USA.

6. Sources of funding for Organization/Group

Foundations, the US government, other governments, multilateral agencies, corporations, and individuals.

7. Brief History of Your Organization's One Health Involvement

PATH is the leader in global health innovation. As an international nonprofit organization, we work in more than 70 countries to save lives and improve health, especially among women and children. We accelerate innovation across five platforms—vaccines, drugs, diagnostics, devices, and system and service innovations—that harness our entrepreneurial insight, scientific and public health expertise, and passion for health equity to deliver measurable results that disrupt the cycle of poor health. Collaboration and partnerships are essential to the success and sustainability of PATH's work. We recognize the numerous complex factors affecting health and strive to adopt a multidisciplinary approach to improving health outcomes. PATH's work is grounded in an evidence-based approach to improving health outcomes, and we have strong expertise in the monitoring and evaluation of global programs. With our scientific and health expertise, PATH is uniquely positioned to evaluate the nutritional and human health impact of agriculture and livestock programs.

8. Additional Information

Selected media, communications, and published work relevant to PATH's work in One Health:

<http://www.path.org/news/press-room/175/>

<http://blog.path.org/2014/10/manjari-lal/>

<http://sites.path.org/vpfst/product-stability/heat-stability/freeze-drying/>

<http://veterinaryrecord.bmj.com/content/early/2014/03/18/vr.101926.abstract>
<http://blog.path.org/2016/04/a-brave-new-world-for-safe-and-reliable-foods/>
<http://blog.path.org/2015/12/climate-change-and-the-egg-new-thinking-for-a-planet-in-crisis/>
<http://blog.path.org/2016/03/powerful-nutrition-its-in-the-bowl/>