HEALTH SOLUTIONS

GHS is currently assembling four comprehensive "workpackages" to address unmet health needs in the developing world.



1. Using metabolomic technology to develop sustainable, locally-produced therapeutic nutrition to combat acute malnutrition in the developing world.



2. Developing a "Super-ORS," an improved oral rehydrating solution (ORS) formulation, to address dehydration associated with diarrheal disease.



3. Using plant-produced, recombinant anti-rabies monoclonal antibodies for effective passive immunization against rabies virus.



 Using immunotherapies adapted to low-income, rural settings to improve herd animal health and milk quality. GHS is funded by the Center of Excellence for Nutritional Genomics at University of California, Davis. For more information about GHS, please visit our website: http://nutrigenomics.ucdavis.edu/ghs

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GLOBAL HEALTHSHARE®



INCREASING GLOBAL ECONOMIC CITIZENSHIP, ONE HEALTHY VILLAGE AT A TIME

nutrigenomics.ucdavis.edu/ghs

THE POWER OF SHARING

GHS members and partners are committed to sharing their collective assets, (e.g., expertise, experience, intellectual property, materials, infrastructure, research, and production capacity) to promote global health and wellness in developing and low-income countries. As an international consortium of researchers, healthcare professionals, business leaders, and policy makers, GHS's ever-expanding membership currently includes over 40 members from 30 institutions in seven countries on three continents.

"In developing countries, nutrition and immunity cannot be separated."

- William Langridge, GHS Member



OUR MISSION

GHS is dedicated to promoting global health and wellness in through the power of sharing knowledge, technology, and resources. Our goal is to bridge the gaps that have prevented proven healthcare products and services from reaching those who need them the most — women, children, the poor, and the underserved.

OUR PLAN

Identify solutions that will benefit large, underserved populations currently neglected by profit-driven organizations.

Collaborate nationally and internationally with academic institutions, renowned scientists, physicians, international anchor institutions, and private sector partners to secure the clinical trial and production facilities needed to produce and deliver safe, effective and affordable healthcare technologies.

Create shared intellectual property arrangements with GHS members and partners that permit the use of proprietary knowledge, materials, and technologies to advance the mission and goals of the GHS.

Deliver health solutions and disseminate knowledge to enable self-sufficient production in targeted populations after GHS involvement.

Leverage the resources needed to support downstream development (i.e. product formulation, clinical trials, distribution systems, etc.) instead of discovery research or major capital expenditures.

Expand the GHS team to include economists, social scientists, formulation specialists and additional international collaborators to ensure GHS's vision is translated into practical and sustainable health solutions in an efficient and timely manner.

GHS takes start-to-finish responsibility for each nutrition and immunity-based health solution. Projects are chosen based on large, unmet health needs in thriving and emerging markets in developing and low-income countries and are designed to fight the most prevalent and neglected diseases with effective and practical approaches.

NUTRITIONAL IMMUNITY

A multidisciplinary approach to fighting infectious and chronic disease with improved nutrition

GHS believes that good nutrition is essential for healthy, productive and prosperous communities. We have identified severe acute malnutrition (SAM) and SAM-related immunosuppression as two problems that if addressed, could dramatically reduce the incidence of communicable and non-communicable disease in the developing world. GHS is currently exploring novel ways to combine vaccines, antimicrobial proteins, and micronutrients into next-generation therapeutic nutrition. We call this approach Nutritional Immunity, or the modulation of human immunity by delivering immunogens in a nutritional context. GHS leverages the collective assets of its members to deliver nutritional and immunity-based health solutions which are tailored to ethnically and culturally diverse populations and are safe, effective, and affordable.

Our **Nutrition Team** focuses on fighting malnutrition with therapeutic nutrition, including food bioactives and micronutrient supplements containing essential zinc, iron, and antioxidants.

Our **Immunity Team** is developing oral vaccines that do not require refrigeration and can be produced with minimal cost and infrastructure in developing and low-income countries.

