



**Technology Managers and Glocal Humanitarianism (TMGH)**  
**A Multiyear Initiative of CARTHA**  
**September 2011**

**GOALS**

Based on CARTHA's [C2G2 Training Model](#)—Building *Collaborative Competence* (C2) within Multisector Partnerships for *Global Good* (G2)—our initiative titled “Technology Managers and Global Humanitarianism” (TMGH) is designed to serve as a share-and-learn forum:

- ❖ **Tools:** To encourage academic technology transfer and licensing policies, partnering and negotiation strategies, and invention management practices that address humanitarian concerns.
- ❖ **Models:** To feature individuals, programs, and case studies representing the evolving contexts within which we can gain new competencies as academic innovation managers and licensing professionals.
- ❖ **Networks:** To design academic innovation management frameworks to leverage cross-sector networks for advancing global health and related humanitarian causes.
- ❖ **Practice:** To improve understanding of the ongoing challenges and opportunities of being engaged in local, regional, or transnational initiatives aimed at promoting humanitarianism of the “glocal” kind.

**VISION**

Global health technology transfer presents a challenging and complex environment, particularly with regard to invention and intellectual property management issues. Evolving practice arenas such as global health technology transfer can only benefit from the experience and expertise of a diverse body of professionals. As new discoveries and inventions arise, academic technology managers have to keep joining forces with others inside and outside of their own institutions to together identify, develop and implement new and creative strategies to promote global health equity. Additional resources for professional training and development have to be garnered, including for appropriate infrastructure and networking that supports individual and collective efforts in these fields. There is a growing need for a cadre of well-trained and well-connected innovators to advance both technological and social innovations for greater societal benefit, particularly when certain scientific advances—such as vaccines for neglected diseases afflicting millions of poorer populations—may make for great societal impacts but not produce enormous financial returns.

From 2001 on, several groups began raising awareness for global health issues in the context of intellectual property management. The Technology Managers for Global Health group was first formulated in 2003 as a collegial network and led by [Usha R. Balakrishnan](#) (who later founded CARTHA) to raise awareness about global health disparities and highlight opportunities for individual academic technology managers to explore practical ways to extend the impact of their professional work. Because the group was formed as a "Special Interest Group" within the [Association of University Technology Managers](#) (AUTM), the annual meetings from 2004-2011 were held in conjunction with the AUTM Annual Meeting. Numerous workshops and seminars were organized by volunteers at venues within and outside of AUTM (see Appendix B).

Evolving from the work of the Technology Managers for Global Health, several networking events and training programs were promoted in conference settings and campus seminars. These dialogues, in part, continue to help identify how academic licensing policies and management practices might be refined. For example, it has now become more common to consider institutionalizing policies for us of humanitarian licensing provisions in patent licensing agreements. Global health technology transfer topics are now routinely featured in many university-based seminars, professional society meetings, and public forums. With your support, CARTHA can continue to organize thought leadership dialogues under TMGH to promote continuous interaction between technology managers and academic scholars and researchers from different regions of the world. Our founder's personal appeal appears on the next page.

## A PERSONAL APPEAL FOR YOUR SUPPORT

Dear Friends,

My own efforts with TMGH since 2003 offered me perhaps some of life's best lessons. I am very grateful to those within MIHR and AUTM who encouraged me to form TMGH. I am also grateful for the financial support-received for the mobilization of TMGH volunteers and development of new training curricula-from the Rockefeller Foundation (2004-2006), the Ewing Marion Kauffman Foundation (2005-2006), and the Bill & Melinda Gates Foundation (2006). This journey of "advancing global good" the global health technology transfer partnerships has greatly broadened the contexts and connections born initially through TMGH.

Since 2002, several TMGH participants have volunteered in designing and conducting workshops at key conferences to heighten awareness of global health related technology transfer topics. Summaries of some of these workshops—many of the early ones being the “first-ever” global health technology transfer sessions at such conferences at the time they were held—are included in the next pages.


I have continued, through both TMGH and CARTHA, to incorporate such topics into presentations and outreach activities that reach out to audiences large and small, in local community settings as well as at international gatherings. We encourage technology transfer and other professionals to explore, organize, and participate in such dialogs and add your unique voice in these dialogs.

Through TMGH, I discovered an enabling and empowering platform to reach out to find, and join up with, other passionate and action-oriented colleagues in so many sectors and in so many disciplines. The special energy of this collective momentum spurred me to explore new ways of linking, thinking, doing, and bridging among professionals and academics. It led me to founding a global nonprofit organization called [CARTHA](#) in 2006. CARTHA now supports therefore the ongoing evolution of TMGH as the Technology Managers for Global Humanitarianism initiative.

I hope you find these few pages on TMGH and its story inspiring to you in unique ways. To allow the gifts of science and research to be eventually translated in a way that actually improves the lives of the underprivileged, we, as trained professionals, can do so only by taking a broader, longer term view of the impacts from our work today. However, this requires us to connect with those who might help us today to maintain our resilience and resolve to make a bigger difference throughout our professional lives. Regardless of what you are currently involved in, please know that there are those colleagues and friends and kindred spirits out there who care deeply about these topics and also recognize the practical professional and personal dilemmas that arise when one aspires to "change the world"! So, please keep up your collaborative spirit alive!

If you are interested in learning more about our activities or supporting them in any way, please contact me. Likewise, I would love to learn about the nature of your interests in these fields. Please feel free to call me or email me.

Sincerely,



[Usha R. Balakrishnan](#), Founder and Board Chair, CARTHA  
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## TMGH-RELATED WORKSHOPS, OUTREACH, AND PUBLICATIONS

### 2011

- **March 2, 2011** – The 8th annual meeting of the Technology Managers for Global Health at AUTM 2011 in Las Vegas. [Click here for the meeting agenda.](#)

### 2010

- **March 20, 2010** – The 7th annual meeting of the Technology Managers for Global Health at AUTM 2010 in New Orleans. [Click here for the meeting agenda.](#)

### 2009

- **November 2009** – A thought piece about CARTHA’s founding rationale (including TMGH) was published in the 2009 Update of the Global Forum for Health Research based in Geneva, Switzerland. Titled “Healthful Academic Translations: Cultivating Collaborative Doers as Innovation Managers for Societal Well-Being” by Usha R. Balakrishnan, this paper is accessible [here](#). CARTHA’s vision and work to be shared among a worldwide audience participating in the 2009 GFHR annual conference “Innovating for the Health of All” in Havana, Cuba, [read more](#). We continue to receive feedback about our paper that is allowing us to shape our 2010 initiatives.
- **November 4-6, 2009** – At the invitation of University of California-Santa Barbara’s Center for Nanotechnology (Richard Appelbaum and Rachel Parker), CARTHA founder participated in the Emerging Technologies/Emerging Economies: (Nano)technology for Equitable Development Conference at the Woodrow Wilson Institute for International Scholars, see [this link](#).
- **February 16-20, 2009** – Based on CARTHA founder’s presentation in Recife, Brazil in November 2008, she was invited by Professor Rodrigo Correa Oliveira and Professor Bianca Zingales to participate in and speak about CARTHA’s efforts at a week-long meeting of the South-South Initiative for Tropical Diseases Research (SSI-TDR) hosted by the World Health Organization at the Bellagio Rockefeller Study Center in Italy, see details [here](#). The South-South Initiative launched in 2001 and supported by UNICEF/UNDR/World Bank/World Health Organization Special program for research and training in tropical diseases (TDR) facilitates sharing of resources and scientific expertise, and promotes collaborations between investigators and institutions in Africa, Asia and Latin America. CARTHA continues to work with scientists identified at this meeting as prospective collaborators.
- **February 14, 2009** – CARTHA founder organized and led a symposium titled “[Thirsting for Daily Sustenance: Public-Private Partnerships for Global Water-Access](#)” at the 2009 Annual Meeting of the American Association for the Advancement of Science (AAAS), Chicago.
- **February 12th, 2009** – The 6th annual meeting of the Technology Managers for Global Health at AUTM 2009 in Orlando. [Click here for the meeting agenda.](#)

### 2008

- **December 2008** – [Anu Idicula](#), who was introduced at TMGH 2008 by [Steve Sencer](#) included CARTHA Board Member [Tom Mercolino](#) as one of the judges for the BioBusiness Plan competition held in Johannesburg under the aegis of the Emory University/South Africa Innovation Fund Partnership.
- **November 11-12, 2008** – [Carlos Lucena de Aguiar](#) who attended TMGH 2008 as a recipient of the AUTM Developing Countries Scholarship, subsequently followed up with TMGH founder Usha Balakrishnan to co-organize the first Health Technology Innovation Workshop. Focused on stimulating new forms of international cooperation to advance new vaccines and diagnostics development for neglected diseases, this Workshop was held on November 11-12, 2008 in Recife, Brazil with the sponsorship of the Aggeu Magalhaes Research Center of Fiocruz-Pernambuco and the Brazilian Health Ministry. The Workshop was attended by over 110 scientists, research administrators, corporate executives, and policymakers from different parts of Brazil. CARTHA’s work and TMGH were featured in a panel where Carlos Lucena, Tom Mercolino (VP for

Business Development at Global Vaccines, Inc.), and Usha Balakrishnan spoke under the theme "Building Bridges for Health Technology Innovation."

- **February 28, 2008** – The 5th annual meeting of the Technology Managers for Global Health was held at AUTM 2008 in San Diego. About 42 professionals attended this meeting. [Click here for the meeting agenda.](#)
- **February 20, 2008** – Inaugural event "Women in Academic Licensing" organized in New York by Sadhana Chitale (New York University) and Kathleen Dennis (Rockefeller University). TMGH founder Usha Balakrishnan spoke at this event along with TMGH volunteer Tari Suprpto (Rockefeller University). About 30 women professionals and technology transfer interns participated from academic institutions in the New York area.

## 2007

- **March 9, 2007** - The 4th annual meeting of the Technology Managers for Global Health group was held during [AUTM 2007 \(San Francisco\)](#). For the first time, the meeting included a guest speaker, [Linda Harrar](#), an Emmy award-winning documentary producer, who shared her perspectives on the interactions of science, technology, society and global health. Click here to see the announcement in the AUTM Program Materials [click here](#), the [meeting agenda](#) and Usha Balakrishnan's [Opening Remarks](#).
- **March 9, 2007** - AUTM 2007 Session titled "Best Practices in Humanitarian Licensing of Intellectual Property," organized by Richard Wilder
  - [Session Summary](#)
  - Usha Balakrishnan's presentation titled "Global Health Technology Transfer is NOT Business as Usual" -- [click here to download PPT file](#) and [accompanying script](#)

## 2006

- **November 14, 2006** - **Alliance for the Commercialization of Canadian Technology (Toronto, Ontario, Canada) Second Annual Conference**
    - ["Technology Transfer: Making a Local and Global Difference"](#)
  - **August 2006** - A booklet titled ["Academic Licensing to Global Health Product Development Partnerships"](#) was produced and distributed to all AUTM members in October 2006.
  - **May 30-June 2, 2006** - **Global Health Council annual conference** (Washington DC)
    - ["New Technologies: The Role of the Private Sector"](#)
  - **May 12, 2006** - [Perspectives and Issues in Building Global Health Alliances](#) LES/AUTM 2006 Spring Meeting, Philadelphia
  - **April 26, 2006** - AUTM [Newsletter](#) of TMGH 3rd annual meeting
  - **March 23, 2006** – Panel co-organized by Cale Lennon of Emory University and Usha Balakrishnan at the Centers for Disease Control (CDC)-BioSouth Technology Forum in Atlanta, Georgia.
- AUTM 2006 (Orlando) had numerous sessions of interest. See [www.autm.net](http://www.autm.net) for further details.
- **March 3, 2006** - AUTM 2006 (Orlando) had numerous sessions of interest. See [www.autm.net](http://www.autm.net) for further details.
    - [TMGH 3rd annual meeting](#)
    - ["Social Innovations in University Technology Management"](#)
  - **March 2, 2006** - ["Licensing to Global Product Development Partnerships"](#)



## 2005

- **October 20, 2005** - Phoenix Add-On Panel titled "Emerging Strategies and Structures in Global Health Partnerships" at Licensing Executive Society (LES) Annual Meeting.
  - [Session Summary](#)
  - [Session Report](#)
- **August 2005** - Results of Global Health Technology Transfer survey of AUTM members.

- [Summary](#)
- Article titled "[Surveying the Need for "Technology Management for Global Health" Training Programs](#)"
- **June 2005** - Global Health Track Session titled "[Innovative Approaches in Technology Transfer for Global Health](#)" at BIO 2005.
- **May 2005** - A booklet titled "[Global Health Partnerships and Academic Technology Transfer](#)" was produced and widely distributed.
- **May/June 2005** - Global Health and Technology Transfer Survey of AUTM Director-level managers.
- **February 2005** - Second annual meeting of TMGH held at AUTM 2005, Phoenix.
- [Agenda](#)
- [Newsletter](#)
- **February 2005** - AUTM 2005 Educational Track on "Socially Responsible Licensing" organized by Cathy Garner.
- **February 2005** - AUTM 2005 workshop titled, "Mission Creep" or "Good Neighbors": Understanding the strategic boundaries for university interface functions in technology transfer, outreach, and economic and social development.
  - [AUTM 2005 Session Speaker Objectives](#)
  - [AUTM 2005 Session Details](#)



## 2004

- **December 2004** - Several TMGH participants came together to form the Curriculum Planning Workgroup to implement efforts under the [Rockefeller Foundation grant](#) support.
- **October 2004** - AUTM Executive Forum session titled, "[Redefining the Social Quotient in Academic Technology Transfer through Social Entrepreneurship](#)".
- **September 2004** - The Rockefeller Foundation provides a grant of \$50,000 to the University of Iowa to support the MIHR-TMGH collaboration to develop training curricula for US and Canadian technology managers to handle inventions, discoveries and patents in a way that promotes global health equity.
- **April 2004** - MIHR and the University of Iowa enter into a Memorandum of Understanding to mutually advance TMGH goals.
- **March 2004** - [Inaugural Meeting of the TMGH group at AUTM 2004, San Antonio](#)
- [AUTM Newsletter](#)
- AUTM 2004 workshop titled, "[The University's Role in Promoting Global Health Partnerships: Building Bridges between Technology Management and International Development organizations](#)"

## 2003

- **September 2003** - AUTM and MIHR professionals gathered at the Gordon Research Conference, Big Sky, Montana and discussed the goals and set out an early [workplan](#).
- Workshop titled "Drug Discovery/Health R&D Partnerships"
- [Workshop Summary and Speakers](#)
- **April 2003** - Proposal to AUTM for the formation of a Special Interest Group called "Technology Transfer Professionals for Global Health"
- **February 2003** - AUTM 2003 Inaugural workshop on global health topics, Orlando

## 2002

- **March 2002** - Maria Freire's influential [speech](#) at AUTM 2002, San Diego
- See Bayh-Dole award recipient remarks . Dr. Freire's speech — underscoring global health as the "next frontier" for academic technology transfer — inspired Usha Balakrishnan to begin her interactions with MIHR. The inaugural workshop in 2003 to address global health topics at AUTM attracted over 40 enthusiastic participants. This produced the momentum for the formation of the AUTM Special Interest Group, Technology Managers for Global Health.