

## Dennis Carroll, PhD

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Dr. Dennis Carroll has over 30 years of leadership experience in global health and development. He formerly served as the Director of the U.S. Agency for International Development's (USAID) Emerging Threats Division providing strategic and operational leadership for the Agency's programs in addressing new and emerging disease threats. He currently serves as Distinguished Professor, School of Global Health, Faculty of Medicine, Chulalongkorn University, Thailand; Senior Advisor on Global Health Security at URC; and the Chair of the Leadership Board for the Global Virome Project, an international partnership to build the systems and capacities to detect and characterize future viral threats.

## One Health in the Age of Pandemics and Climate Change

As the world navigates the third year of the COVID19 pandemic it is simultaneously grappling with the intensifying consequences of climate change. While on the surface pandemics and extreme weather events may seem totally unrelated, they in fact share a common underlying driver. Both the rising threats of pandemics and changing climates are direct consequences of how human populations are dramatically altering our planet's ecosystems. As our populations continue to grow (we will have exceeded 8 billion by the end of this year) and we build our cities, expand our agricultural production, and increase our energy consumption to meet the needs of this expanding population we are not only altering the dynamic interplay between human and animal populations elevating the risks of disease outbreaks, we are profoundly changing the earth's atmosphere driving a steady increase in extreme weather events. Over the past two decades the One Health movement has made significant strides in building a more resilient workforce that is mindful of the interconnectedness of human, animal and environmental health.

Tackling climate change also requires building a more professional workforce that understands interconnectedness across multiple sectors. The dual challenges of pandemics and climate change will require even more expansive multi-sectoral partnerships – spanning not only animal and human health but energy, trade, natural resources, urban planning, and financing, as well. The next generation of leaders will only be prepared to meet these dual challenges if our One Health vision is ready for the future. This talk will explore the necessary evolution of One Health from pandemic prevention to a comprehensive approach to address planetary health.