SPEECH INFORMATION (For Conference Program Book)	
Topic	Preserving and Harnessing Microbiome Diversity for Next-Generation Therapies
Abstract	Current microbiome datasets are heavily biased towards North American and European adults, yet most of what we know about microbiome diversity lies outside these populations. In particular, hunter-gatherer populations such as the Hadza have microbiome configurations completely outside what we see even in cultures that have adopted farming, let alone spend their time in air-conditioned rooms isolated from the natural environment. Here I discuss what we have learned from comparing microbiomes from populations around the world, and the built environments that they inhabit, ranging from dwellings made of sticks and straw all the way to the International Space Station. I discuss ways we can harness this expanded microbial knowledge, including the question of whether to focus on re-supplying lost microbes, to encourage the regrowth of vanishingly rare but not absent microbes within the population, or to engineer existing bacteria to resupply functions that have been lost.