Healthy Urban Microbiome Initiative
Pathway to a Climate-Resilient Future

Interconnected Global Challenges
The Healthy Urban Microbiome Initiative (HUMI) addresses interconnected global challenges. We are focusing on the role environmental microbiomes are now known to play in the causal pathway between biodiversity loss and the rise in immune-system-related disease in humans that diminishes urban population health. These global challenges are made more urgent by drivers of change: environmental degradation, climate change and population driven urbanisation.

Goal
To integrate recent developments in microbiome science into a population health approach that delivers sustainable and biodiverse urban green space for health improvement.

Objectives
1. To identify and measure local biodiversity and associated environmental microbiomes in local urban green spaces with civic and community participation (Research & Health service-led)
2. To design and restore (or create) biodiverse urban green spaces (BUGS) that improve population health and create innovative educational and employment opportunities (Community-led)
3. To foster and evolve local best practice implementation of BUGS that maximises population health improvement and associated educational and employment opportunities (Civic-led)

HUMI 2020 CHALLENGE
Our challenge for “Global Biodiversity for Health”: 20 cities in 20 countries developing HUMI Partnership Projects before the 2020 COP15 in China

Transfer of Environmental Microbes to Humans in Urban Green Space Environments
![Graph showing transfer of environmental microbes to humans in different urban green space environments]

SCRD-HUMI Partnership
The Secretariat for the Convention on Biological Diversity and the Healthy Urban Microbiome Initiative have partnered to improve population health through the restoration and creation of biodiverse urban green space around the world.

HUMI addresses UN SDGs
Improving the health of urban populations through the restoration of biodiverse environments supports many sustainable development goals:
- 3 – Good health and wellbeing
- 10 – Reduced inequalities
- 11 – Sustainable cities and communities
- 13 – Climate action
- 15 – Life on land
- 17 – Partnerships for the goals

Get involved
Develop your own place-based biodiverse urban green space interventions and join HUMI to evaluate our collective progress. The Healthy Urban Microbiome Initiative (HUMI) is modelled on a place-based population health approach and is science-led, community-focused and enabled by civic-leadership. We are scientists, local government and public health professionals working in partnership with community-led groups to improve the health of our populations and environment, concurrently.

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