

Project EarthRise

9th Annual Conference
inVIVO PLANETARY
2020 HEALTH

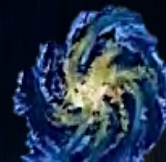
FINAL PROGRAM

DECEMBER 2020



People. Place. Purpose. Planet.

Welcome to inVIVO 2020



It Is Time...

Indeed, there could not be a more important time to imagine a better world, and fundamentally question the way we choose to live on our planet. That includes how we see ourselves. How we treat others. How we care for our place and our communities. Even the way that we approach our problems.

In an era of so many “**broken systems**” it is time to equally address the crisis of our “**broken spirit**”. It is becoming clear how much we have neglected and devalued the power of “**the best**” of human nature—the very things that **unite**, **empower** and **refocus priorities** of individuals and societies—arguably our greatest asset in overcoming our grand challenges.

With this in mind, the theme of **our first virtual** meeting, **Project Earthrise**, takes inspiration from one of the most transcendent moments in modern history—when we first saw the Earth across the void of space. One planet. For all people. Igniting profound wonder and awe, it inspired a renewed desire for **peace, unity, kindness, justice** and **appreciation** and care for **nature**. We believe that this reveals that we are more aligned in our vision and **desire for a better world** than our current polarized social climate suggests—especially when we are inspired.

Imagining the future is the first step to getting there.

We might all begin by asking ourselves:

“What kind of world do we want to live in?”



Meeting Chairs,
Prof Susan Prescott (President and Director),
Prof Ganesa Wegienka (Vice President and Director),
Prof Remco Kort (acknowledging his work for the
pre-COVID Amsterdam program that had to be cancelled)
and **the inVIVO Board of Directors:**



Susan Prescott
President and
Director, inVIVO



Ganesa Wegienka
V/President and
Director, inVIVO



Remco Kort,
Meeting Chair,
(Amsterdam)



**Dianne
Campbell**
Australia



**Chris
Lowry**
USA



**John
Penders**
Netherlands



**John
Holloway**
UK



**Anita
Kozyrskyj**
Canada



**Cecilie
Svanes**
Norway



**Harald
Renz**
Germany



**Alan
Logan**
USA



**Ralph
Nanan**
Australia



**Jake
Robinson**
UK

Opportunity through connectivity and imagination:

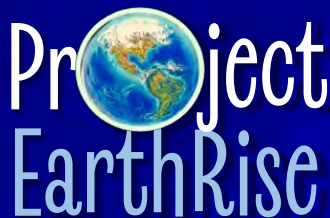
Our **grandest challenges** in the **Anthropocene** ultimately stem from **human attitudes** to **each other** and to **our environment**. However, solutions **rarely confront** the underlying **value systems** that created these interconnected problems, or the attitudes that perpetuate them. We call to **normalize more creative, mutualistic approaches**—including the perspectives of **traditional** and **indigenous** cultures—to positively influence normative value systems. We revisit the power of inspiration of “Earthrise” which galvanized a fledgling planetary health movement over 50 years ago. We explore the ways in which the awe of Earthrise—and contemporary science and creativity—might **reinvigorate imagination, kindness and mutualism**.

For more, see: Project Earthrise: Inspiring Creativity, Kindness and Imagination in Planetary Health by Alan C. Logan, Susan H. Berman, Brian M. Berman and Susan L. Prescott Challenges 2020, 11(2), 19

Our agenda underscores the imperative for **creative ecological solutions** for challenges in all systems and all scales with **advancing global urbanization** in the **digital age**— for **personal, environmental, economic** and **societal** health alike. We aim to bring together diverse perspectives from across many dimensions of the **arts** and the **sciences**, as we explore **novel solutions** and **new normative values**.

We will extend the many discussions we had planned for Amsterdam, prior to the pandemic, and view them through this lens—recognising that to overcome our greatest challenges we must address the **value systems** that **created them in the first place**.

This continues to reflect our focus on understanding and improving the complex relationships between human health and planetary health. We seek to emphasize the **socio-eco-biological interactions** in our living environment (including **urbanization, food** systems, **education, social** inequity, **climate** change, **biodiversity** loss, and **microbial ecology**) impact **physical, mental** and **spiritual** well-being, together with the wider **community** and **societal** factors that govern these. We continue to have a long-range vision which includes **transgenerational** and ‘**life-course**’ approaches to **disease prevention** and **environmental restoration**.



Project
EarthRise

“For the world
we want to live in”



Registration and Membership:

Membership:

We greatly appreciate everyone's contributions to inVIVO. A much-valued aspect of our meetings is that we have not relied on commercial sponsorship. To make this possible our goal is to cover the costs of our annual meetings with the registration fee. The membership fee allows us to cover our increasing administrative costs as we continue to grow. Thank you all for your continued support.

- We **invite all attendees to join as members** (for US\$110), to support running costs of inVIVO.
- **Student membership is free.**

Member benefits include reduced registration fees and discount journal submission to the **International Journal of Environmental Research and Public Health (IJERPH)** – (IF 2.849) our new journal partner, and to our journal **Challenges**.

Registration:

In view of the pandemic, we are **heavily discounting all registration** fees this year. Although there are considerable costs of running the virtual platform we have decided to subsidise at well below cost. Your registration will include full access to **all live sessions** (more than 120 speakers), to **all recordings after the event**, and a viewing of the movie *"Guardians of the Grassland."* If you are not already a member, we invite you to join. Thank you for your investment!

Visit the
website for
registration
options

Student registration: US\$20.00

Member registration: US\$40.00

Non-member registration: US\$200.00 (we invite all attendees to become members)



Early Career Network

We have a dynamic network of early career members! Please visit their [website](#) and contact them if you want to join!

Our students also edit a quarterly inVIVO student newsletter **THE PLANET**. The latest editions are also on their website.



2020 early career researcher (ECR) Travel Awards:

We are proud to announce the successful travel awards for early career researchers:

- Camilla Allen (UK)
- Chris Buse (Canada)
- Phanie Charest (Canada)
- Zoe Davis (Canada)
- Bahrul Fikri (Indonesia)
- Yogi Hendlin (Netherlands)
- Vivien How (Malaysia)
- Aaron Jenkins (Australia)
- Ingrid Jarvis (Canada)
- Danica-Lea Larcombe (Australia)
- Kyo Lee (USA)
- Danielle MacCarthy (Northern Ireland)
- Anna Ojo (South Africa)
- Sagun Paudel (Nepal)
- Manila Poudel (Nepal)
- Kristina Rueter (Australia)
- Amandine Selle (France)
- Hildy Steinacker (UK)
- Alex Wacoo (Uganda)
-

These will be honored in future face-to-face meetings.



Conference format: **join the conversation**

Conference format

General Format

- We have decided to run the conference **over 2 weeks** because there is so much to cover!
- **You can watch at any time after the session goes 'live'**—either during live 'broadcast' or afterwards at your convenience, given time zone challenges!
- There will be **10 sessions of content**—people sharing their work and perspectives.
- We will **ALSO** have **2 LIVE interactive "around the campfire" discussions** — to share ideas, thoughts, and opportunities arising from any session.

Session Format (content sessions)

- We have scheduled roughly **2-hour blocks of short-style talks**—as in our in-person meetings.
- For logistic reasons, we will **NOT** have discussion at the end of each session. Instead we will have **SEPARATE** interactive discussions. But you will be able to submit comments or suggestions to the chair to bring to the discussion session or wait to make your comments at the "campfire".

Campfire Discussions

- These 'campfires' are opportunities for everyone to share thoughts and ideas that have arisen from the conference so far.
- They will both be in **WEEK 2** to allow everyone who missed anything to catch up with the content sessions over the weekend before the live discussions.
- The chairs of each session will present comments they have collected during their sessions.
- Anyone else can also present their thoughts or ideas to add to the discussion.



Session times



SESSION 1: Broadening our vision to set the stage for change

Wednesday Dec 2
 3pm GMT (4pm CET)

10am EST
 7am PST
 +2am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 2: What kind of world do we want to live in? Urban and social systems for health and fulfilment on all scales

Wednesday Dec 2
 8pm GMT (9pm CET)

3pm EST
 12pm PST
 +7am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 3: Food systems from the ground up Can food solutions also be climate solutions?

Thursday Dec 3
 3pm GMT (4pm CET)

10am EST
 7am PST
 +2am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 4: Building mutualism through nature connectedness - inspiring well-being, meaning, social and environmental responsibility

Thursday Dec 3
 8pm GMT (9pm CET)

3pm EST
 12pm PST
 +7am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 5: Ecological Foundations: Rewilding Environmental Microbiomes - Implications for human and microbial ecology

Friday Dec 4
 3pm GMT (4pm CET)

10am EST
 7am PST
 +2am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 6: Personal ecology in a rapidly changing exposome - what next!? Health and fulfilment in a changing physical, emotional, social and political environment

Friday Dec 4
 8pm GMT (9pm CET)

3pm EST
 12pm PST
 +7am AEDT
 (N.America)
 (N.America)
 (Australia)

Around the campfire – LIVE INTERACTIVE SESSION –to discuss ideas, thoughts, and opportunities arising from any session so far!

Monday Dec 7
 3pm GMT(4pm CET)

10am EST
 7am PST
 +2am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 7: Across the Ages – Transgenerational and Life-course Opportunities to improve health (Developmental Origins – part 1)

Monday Dec 7
 8pm GMT (9pm CET)

3pm EST
 12pm PST
 +7am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 8: Healthier Beginnings: Early Life interventions (Developmental Origins – part 2)

Tuesday Dec 8
 3pm GMT (4pm CET)

10am EST
 7am PST
 +2am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 9 From the Grassroots: Change through Communities and Networks

Tuesday Dec 8
 8pm GMT

3pm EST
 12pm PST
 +7am AEDT
 (N.America)
 (N.America)
 (Australia)

SESSION 10: Taking it Forward – Project Earthrise

Wednesday Dec 9
 3pm GMT (4pm CET)

10am EST
 7am PST
 +2am AEDT
 (N.America)
 (N.America)
 (Australia)

Around the campfire – LIVE INTERACTIVE SESSION –to discuss ideas, thoughts, and opportunities arising going forward!

Wednesday Dec 9
 8pm GMT (9pm CET)

3pm EST
 12pm PST
 +7am AEDT
 (N.America)
 (N.America)
 (Australia)

Session One

Broadening our vision to set the stage for change

Wednesday Dec 2
(and any time thereafter)

Susan Prescott



Opening video and Welcome

Susan Prescott

Messages from the Elders and Dedication of our meeting to Mother Earth

from the Dene Peoples, and the Arctic Wellness Foundation, Canada

Nicole Redvers
Be'sha Blondin

from the Mardoowarra People, and Nulungu Research Institute, Australia

Anne Poelina
Marlikka Perdrisat

Project Earthrise: Setting the scene to inspire change

Susan Prescott
(Australia)

KEYNOTE LECTURE:

Beyond polarity: Seeking unity of spirit across ideologies. A legacy of telling the truth and bearing witness to love and justice for people, place and planet.

[Cornel West](#) is an acclaimed American philosopher, political activist, social critic, author and public intellectual. He is Professor of the Practice of Public Philosophy at Harvard and as an Professor Emeritus at Princeton University. He has also taught at Union Theological Seminary, Yale, Harvard, and the University of Paris. He graduated Magna Cum Laude from Harvard and obtained his M.A. and Ph.D from Princeton. He has written 20 books and has edited 13. He is a frequent guest on the Bill Maher Show, CNN, C-Span and Democracy Now. He made his film debut in the [Matrix](#) – and was the commentator on the official trilogy released in 2004. He has appeared in over 25 documentaries and films. He has a passion to communicate to a vast variety of publics to keep alive the legacy of Martin Luther King, Jr.

Cornel West
(USA)



Making connections, finding balance: remembering the social and spiritual dimensions of ecology

Trevor Hancock
(UK)

The lowest common denominator: shifting the underlying value systems that undermine planetary health on all fronts

Rob Moodie
(Australia)

Marketing and advertising-based artificial selection: intended and unintended consequences of mass mimicry in contemporary culture

Yogi Hale Hendlin
(Netherlands)

The Crossroads of the Planetary Health Paradigm:
An Indigenous Perspective on Land Based Healing

Nicole Redvers
(Canada/USA)

Rising the Feathered Serpent: Indigenous Contemplative Traditions

Yuria Celidwen
(Mexico, USA)

Every species has a song: Plant intelligence and the importance of imagination in science

Monica Gagliano
(Australia)

Cont...

5 minute stretch break – we will play photo albums from our last meetings! ☺

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Planetary Health: An Emerging Public Health Concern in Nepal

Sagun Paudel
(Nepal)

Planetary Health Perceptions Versus Priorities in Fijian Communities

Sarah Nelson
(Australia)

Transforming Ecological Grief Through Hypnotherapeutic
Storytelling Traditions

Ryan Jenkins
(Australia)

Interplanetary health equity: implications of dominant value systems in
space exploration for human cultural identity and equitable survival

Evelyn de Leeuw
(Australia)

Biomimicry and Nature as Symposiosis: A Case Study into Living
Machines

Laetitia Van den
Bergen
(Netherlands)

The Reciprocal Requirements for Undisciplined Cross-sectoralism

Aaron Jenkins
(Australia)

**Group discussions will be deferred to “Around Campfire” live interactive
discussions. You can submit comments to the chair of this session now,
or wait to bring your ideas to the “campfire”**

Session close

Session Two

What kind of world do we want to live in?

Urban and social systems for health and fulfilment on all scales

Wednesday Dec 2
(and any time thereafter)



Welcome to Session (Chair)

David Nelson

Rethinking social change: regenerative sustainability, reciprocity and joy

Blake Poland
(Canada)

Addressing the “Social Dilemma”: can we realign digital technology with humanity's best interests

Dave Nelson
(Canada)

Managing the digital environment for our children: physical, mental and social implications for a post COVID generation

Desiree Silva
(Australia)

Nature as an antidote to digital displacement: Increasing the awareness of nature-based solutions for human health in urban settings post COVID

Matilda van den Bosch
(Canada/Spain)

The future of urban systems: saving our cities to save our health in the post COVID era.

Mark J Nieuwenhuijsen
(Spain)

Inspiring children to imagine the future: what they can teach us through art

Alanna Berman
(USA)

Imagining our future: comparing green and sci-fi utopian themes and effects on social change motivation

Julian Fernando
(Australia)

The Artist as Rebel: Enhancing awe, wonder and connectivity to people, places and planet

Catherine Sarah Young
(Australia/
Philippines)

(all these talks are scheduled for 10 minutes each)

Cont...

5 minute stretch break – we will replay photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Parent use of smartphones and tablet computers and prenatal attachment

Rebecca Hood
(Australia)

'Desirable green': Informing design guidelines for restorative small urban green spaces

Hildy Steinacker
(UK)

Knowledge Translation in the Response to the COVID-19 and Climate Change Co-Emergencies of our Time

Cecilia Sierra-Heredia
(Canada)

A history of the psychologies of the environment

James Dunk
(Australia)

Change in complex systems: Lessons about policy and practice for healthy, sustainable healthcare

Sarah Walpole
(UK)

Strategies Caregivers Use to Support Adolescents Who Experience Climate Grief

Taylor Hirschberg
(USA)

Designing a Carbon Neutral Health System Through Sustainable Quality Improvement

Kathleen Leedham-Green
(UK)

Implementation of an Air Quality Forecasting Operating System for Health Surveillance and Sustainability in the Salvador Metropolitan Region, Brazil

Nelzair Vianna
(Brazil)

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Session close

Session Three

Food systems From the ground up

Can food solutions also
be climate solutions?

Thursday Dec 3
(and any time thereafter)



"Kiss the Ground"

Welcome to Session (Chair)

Invitation for all delegates to watch film "Guardians of the Grasslands" documentary as part of the registration package (at leisure)

Anita Kozyrskyj
(Canada)

Rules of Resilience: a guide to developing solutions that cultivate social-ecological resilience

Laura Lengnick
(USA)

From the ground up: soil microbes, carbon fixing and regenerative agriculture from a grass roots perspective

Sarah Hargreaves
(Canada)

The future of food: addressing value chains and value systems

Sabine Gabrysch
(Germany)

The challenge of transforming food systems in an 'ultra-processed' society prone to corporate capture and overconsumption

Jean-Claude
Moubarac (Canada)

The implications of ultra-processed diets and food additives for the gut microbiome

Laurence Macia
(Australia)

Multi-dimensional advantages of beneficial microbes for food solutions: from nutrition to prosperity and empowerment of women in developing regions

Gregor Reid
(Canada)

Beneficial Microbes in Apiculture: A Multi-Purpose Solution to Improve Honey Bee Health and Reduce the Environmental Spread of Antimicrobial Resistance

Brendan Daisley
(Canada)

(all these talks are scheduled for 10 minutes each)

Cont...

5 minute stretch break – with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Biochar-Urine Nutrient Cycling for Health:
A carbon intelligence project

Jillian Waid
(Germany)

A real-life nutritional study and a double-blind placebo-controlled nutritional trial on health outcomes of a probiotic yoghurt intervention among schoolchildren from three to six years old in Southwest Uganda

Nieke Westerick
(Uganda/
Netherlands)

Probiotic approach for mitigation of the risk effects of aflatoxin: The application of *Lactobacillus rhamnosus* yoba to enrich and decontaminate aflatoxins in fermented foods

Alex Paul Wacoo
(Uganda)

Bacterial Community Diversity in Gundruk –
The Naturally Fermented Food from Nepal.

Prajwal
Rajbhandari
(Nepal)

Microbial Characterization of Kefir From Raw Milk Fermented by a Commercial Culture or a Symbiotic Consortium of Bacteria and Yeast.

Luuk van Ooijen
(Netherlands)

Screening of β -galactosidase Production from Lactic Acid Bacteria Isolated from Different Livestock of Nepal

Manila Poudel
(Nepal)

From Agricultural Health to Climate Change's Health Threat among Farmers and their Families

Vivien How
(Malaysia)

The under-appreciated role of tropical forests in nutrition and food security

Sarah Gergel
(Canada)

Protein for a healthy future: How to increase protein intake in an environmentally sustainable way in older adults in the Netherlands

Alessandra
Grasso
(Netherlands)

An integrated scalar analysis of the cumulative health impacts of multiple landuses: Focus on British Columbia, Canada

Chris Buse
(Canada)

Altered Eating in the Anthropocene and Brain 'Injuries': Is it fundamentally altering our senses?

Duika Burges
Watson (UK)

Group discussions will be deferred to “Around Campfire” live interactive discussions. You can submit comments to the chair of this session now, or wait to bring your ideas to the “campfire”

Session close

Session Four

Building mutualism through nature connectedness

inspiring well-being,
meaning, social and
environmental
responsibility

Thursday Dec 3
(and any time thereafter)



Welcome to Session (Chair)

Chris Lowry (USA)

Imagining new ways of living: at the intersection of art, nature and health

Sara Warber
(USA)

The Green Road Project a therapeutic nature space veterans struggling with the unseen injuries of war

Built in the woodlands of the National Military Medical Complex in Bethesda, in collaboration with The Institute for Integrative Health, Baltimore

The Institute for
Integrative
Health, Baltimore
(USA)
(Fred Foote /
Brian Berman)

Group activities in nature: growing resilience and buffering adversity

Melissa Marselle
UK/Germany)

Let nature be thy medicine: a socio-ecological exploration of green prescriptions in the UK.

Jake Robinson
(UK)

Can nature contact build character strengths: wider implications for environmental education?

Amparo Merino
(Spain)

Nature and spiritual well-being: a simple path to improving human potential

Margaret Hansen
(USA)

(all these talks are scheduled for 10 minutes each)

Cont...

5 minute stretch break - with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Bac2Nature - Biodiversity is at the core of our health and happiness: An explanatory animation

Marco van Es
(Netherlands)

Do Natural Environments Promote Childhood Mental Health and Development? A Systematic Review and Assessment of Different Exposure Measurements

Zoe Davis
(Canada)

Childhood experiences of nature influence outdoor preferences as adults

Shinya Numata
(Japan)

The Allure of Healing Nature: Examining the impact of light on mental health

Brent Erickson
(USA)

The influence of different types of natural environments on self-reported health and mental illness

Ingrid Jarvis
(Canada)

Walking the Talk - putting healthy and ecologically mindful living into practice

Sheelin Coates
(Australia)

Nature nearby and its association with physical activity in older adults in Delhi, India.

Danielle MacCarthy
(N. Ireland)

Therapeutic landscapes in Brussels city for human health promotion and disease prevention

Vitalija Povilaityte Petri
(Belgium)

A biography of Richard St. Barbe Baker's 1950 New Earth Charter; an ecological manifesto calling for harmony between people and nature

Camilla Allen
(UK)

Important Park Features for Encouraging Adolescents' Park Visitation, Physical Activity and Social Interaction: A Conjoint Analysis

Elise Rivera
(Australia)

Urban landscape multifunctionality : Integrating socio-cultural values to ensure sustainable urban futures. *

Elizabeth Schrammeijer
(Netherlands)

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*written abstract only (no presentation)

Session close

Friday Dec 4
(and any time thereafter)

Session Five

Targeting Ecological Foundations: Rewilding Environmental Microbiomes

Implications for
human health and
microbial ecology



Welcome to Session (Chair)

Jake Robinson

“Earth” rise: soil ecosystems connecting the health of people, place and planet (celebrating World Soil Day today!)

Janet Jansson
(USA)

Soils and forest materials to rewild the human microbiome:
using environmental microbes in topical preparations

Aki Sinkkonen
(Finland)

Restoring the environmental microbiome - a public health intervention?

Martin Breed
(Australia)

Transfer of environmental microbes to the skin and respiratory tract
of humans after urban green space exposure

Caitlin Selway
(Australia)

Health-associated Microbiome is Altered in Urban Environments:
Daycare biodiversity interventions improve children's microbiome
and immune regulation

Marja Roslund
(Finland)

Urban rewilding by green printing: ecological restoration
of microbial diversity on city walls

Remco Kort
(Netherlands)

Fear and the city: how exposure to environmental microbes
enhances fear extinction

Chris Lowry
(USA)

Urbanized early life microbiota increases the risk of
asthma and atopic traits

Jenni Lehtimäki
(Finland)

What is a Healthy Skin Microbiome? Leveraging ancestral microbiomes
for guidance in restoration of a healthy western skin microbiota.

Julia Durack
(USA)

(all these talks are scheduled for 10 minutes each)

Cont...

5 minute stretch break - with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Urban Green Space Aerobiomes: Exposure to Airborne Bacteria Depends Upon Vertical Stratification and Vegetation Complexity

Jake Robinson
(UK)

Using the Human Skin Microbiota to Measure Nature Exposure in a Longitudinal Study

Danica-Lea
Larcombe
(Australia)

Investigating the Effect of Chlorinated Drinking Water on the Assembly of the Infant Gut Microbiome

Kimberley Parkin
(Australia)

Algae as Allies: Learning Algal Patterns to Better Understand Ecosystem Health

Yogi Hendlin
(Netheralnds)

Insights into the Circadian rhythms on Parasitic Infections and Planetary Health

Mona El-Sherbini
(Egypt)

Can soil microbes modulate the plasma metabolome in an animal model?

Saydie Sago
(USA)

Do soil microbes influence stress coping behaviors and cognitive performance in an animal model?

Kyo Lee
(USA)

Effects of soil microbe *Mycobacterium vaccae* on faecal microbiomes: investigating effects in an animal model *

Evan Schaefer
(USA)

Effects of *M. vaccae*, a Bacterium with Anti-Inflammatory and Immunoregulatory Properties, on Circadian Rhythms of Locomotor Activity in Mice Experiencing Circadian Disruption *

M. C. Flux
(USA)

Group discussions will be deferred to “Around Campfire” live interactive discussions. You can submit comments to the chair of this session now, or wait to bring your ideas to the “campfire”

*written abstract only (no presentation)

Session close

Session Six

Friday Dec 4
(and any time thereafter)

Personal ecology in a rapidly changing exposome – what next!?

Health and fulfilment in a changing physical,
emotional, social and political environment

Welcome to Session (Chair)

David Nelson

KEYNOTE:

Reimagining Humanity: Promoting self-awareness, connectivity and mutualistic value systems for healing person, place and planet

Deepak Chopra, founder of The Chopra Foundation, a non-profit entity for research on well-being and humanitarianism, is a world-renowned pioneer in integrative medicine and personal transformation. He is a Clinical Professor of Family Medicine and Public Health at the University of California, San Diego and serves as a senior scientist with Gallup Organization. He is the author of over 90 books, including numerous New York Times bestsellers. For the last thirty years, Chopra has been at the forefront of the meditation revolution working to help achieve new dimensions of stress-free living and joyful living. TIME magazine has described Dr. Chopra as "one of the top 100 heroes and icons of the century."

Deepak Chopra
(USA)

Making planetary health personal: promoting the understanding that it goes both ways!

Jeff Bland
(USA)

Increases in depression during the COVID-19 pandemic:
Socio-economic gradient of mental health impact

Catherine Ettman
(USA)

Happiness as fairness: The relationship between national life satisfaction and social justice in EU countries

Salvatore
Di Martino (UK)

The COVID-19 Pandemic and Perinatal Mental Health in Sweden

Emma Bränn
(Sweden)

Framing the Discussion of Microorganisms as a Facet of Social Equity in Human Health

Suzanne Ishaq
(USA)

Resilience through nutrition: buffering stress and adversity through personal ecology

Pedro Carrera
Bastos (Portugal)

Gut Microbiome in Children from Indigenous and Urban Communities in México: selective pressures of Western diet and lifestyles

Isaac G-Santoyo
(México)

Restoring our inner wisdom: microbes modulate oxytocin compassion and prosocial behavior

Susan Erdman
(USA)

Transcending chaos: Spirituality and coping in the aftermath of disaster

Susan Young
(New Zealand)

5 minute stretch break - with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Unintended Consequences From The COVID19 Response

Jacinta Ryan
(Australia)

Canadian Public Health Measures for SARS-CoV-2 Targeting Children During the Early Days of the COVID-19 Pandemic

Rachel Livergant

TSUNAMI: An environment wide association study of diabetes burden in India

Puja Chebrolu
(India/USA)

A Live Probiotic Sunscreen to Protect Against Skin Neoplasia

Tina Varkevisser
(Netherlands)

Metabolic Diversity amongst Lactobacillus Crispatus Isolates for Probiotic Purposes

Rosanne
Hertzberger
(Netherlands)

The brain-gut axis organoid model, creation of an organoid-organoid connection of the intestine and brain

Job Schlösser
(Netherlands)

Hyphae-active: mycelia-inspired participatory Service Design for healthier people and places - Inspired by Nature's Internet.

April Rose Presto

Strategies to reduce antibiotic usage by targeting bacterial quorum sensing: the Q-Patch

Annika Dokter
(Netherlands)

Group discussions will be deferred to “Around Campfire” live interactive discussions. You can submit comments to the chair of this session now, or wait to bring your ideas to the “campfire”

Session close

Conversation at the Campfire



LIVE INTERACTIVE DISCUSSION

Monday Dec 7 ONLY

JOIN US LIVE to discuss ideas,
questions and opportunities
arising from any session so far!

Monday Dec 7

3pm UTC	(GMT)
4pm CET	(Europe)
10am EST	(N.America)
7am PST	(N.America)
11pm AWST	(Australia)
+2am AEDT	(Australia)

Like our in-person meetings, we aim to encourage organic interactions and opportunities for everyone to share their thoughts and ideas. The goal is to explore the space “between siloes” of expertise, and find new opportunities through the connectivity of our community.

As always, we welcome new members and value the thoughts of early career researchers as much as those who have been around for a while.

To get the ball rolling we will ask the chairs of each session so far (sessions 1-6) to share their thoughts and feedback from participants during their session, inviting further comment from others.

There are no obligations or expectations – whatever happens is right.

Whoever comes to the campfire is meant to be there.

If people choose to come and go that is ok.

The conversation takes us wherever we want it to go.

It lasts for as long as long we want it to last.

*“Imagining the future is the first step to
getting there. Sharing it helps make it real”*



Session Seven

Across the Ages – Transgenerational and Life-course Opportunities to improve health

Developmental Origins of
Health and Disease – part 1

Monday Dec 7
(and any time thereafter)

Welcome to Session (Chair)	Ganesa Wegienka (USA)
Across the generations: a traditional perspective from the longest surviving culture on Earth	Sandra Eades (Australia)
From Mother to Child: How, when and why we need to optimise the developing microbiome.	Maria-Carmen Collado (Spain)
From Father to Child: Transgenerational effects of toxic environmental exposures in Arctic populations	Janice Bailey (Canada)
Early-Life Exposome and Industrial Chemical Emissions	Charlene Nielsen (Canada)
A nudge from evolution: Sex and birth order influence how mothers eat and offspring grow	Ralph Nanan (Australia)
The burden of maternal depression in pregnancy: implications for psycho-emotional and physical development of next generations	Alkistis Skalkidou (Sweden)
Ecology of the microbial mother-newborn dyad	Nelly Amenyogbe (Australia)
Life in our gut: the impact of birth mode, diet and social interactions in shaping the microbiome during early life	John Penders (Netherlands)
Reduced microbial richness in breast milk associates with increased risk of immune disease	Maria Jenmalm (Sweden)
Human Breast Milk Bacterial Dysbiosis is Associated with Lactose Fermentation and Poor Breast-feeding Outcomes	Anna Ojo (South Africa)

(all these talks are scheduled for 10 minutes each)

5 minute stretch break - with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

A prospective study of persistent organic pollutants and body mass index trajectories among Black women

Xiaoxia (Sasha)
Han (USA)

Gut Microbiota Signature Based On Sex and the Presence of Siblings in 2 Years Old Japanese Children

Bahrul Fikri
(Japan/Indonesia)

The role of early-life gut microbiota maturation in allergy predisposition: Higher risk of sensitization among Asian-Canadian children

Hein Min Tun
(Hong Kong)

Ancestral Paternal Exposure to Arctic Pollutants Impairs Placental and Fetal Developmental Outcomes Without Protective Effect from Folic Acid Supplementation*

Phanie L.Charest
(Canada)

Group discussions will be deferred to “Around Campfire” live interactive discussions. You can submit comments to the chair of this session now, or wait to bring your ideas to the “campfire”

*written abstract only (no presentation)

Session close

Session Eight

Healthier Beginnings: Early Life interventions

Developmental Origins of
Health and Disease – part 2

Tuesday Dec 8
(and any time thereafter)



Welcome to Session (Chair)

John Penders
(Netherlands)

Can rewilding the microbiome ameliorate the effects of early life stress
and transgenerational vulnerability?

Bridget Callaghan
(USA)

Born to be Wise: Impact of Modifiable Early-life Environmental
Exposures on the Health and Development of Children

Matilda van den Bosch
(Canada)

**ActEARLY: How can we keep our young people happy, health and
physically active?** A multi-method, multi- disciplinary community
priority setting exercise in the City of Bradford, United Kingdom

Rosie McEachan
(UK)

Breast milks as personalised preventive medicines: implications of
environmental changes in the Anthropocene

Valerie Verhasselt
(Australia)

Breastfeeding and planetary diets: why breast milk substitutes should
have the same aspirations for people, place and planet

Daniel Munblit (UK)

The benefits of spending time in nature for infant gut health—
overcoming the increasing use of disinfectants in the post-COVID era

Anita Kozyrskyj
(Canada)

Improved eating habits and active playtime though connecting
preschool children to nature: preliminary results of
a randomized controlled trial

Tanja Sobko
(Hong Kong)

(all these talks are scheduled for 10 minutes each)

Cont...

5 minute stretch break - with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Impact of COVID-19 on families: comparison of birth cohorts in Australia and the UK (collaboration between ORIGINS and Born in Bradford)

Bridget Lockyer
(UK)

Urban Children's Well-Being Factors and Qualities of *Being* and *Doing* in Natural Space

Misako Nagata
Patricia Liehr
(Japan/USA)

The Influence of Early Vitamin D Supplementation and UV light Exposure on Allergic Disease Outcome in Infancy: A Double-Blinded Randomized Controlled Trial

Kristina Rueter
(Australia)

Exploring the Experience and Engagement of Perinatal Women in Online Emotional Wellbeing Training

Jacqueline Davis
(Australia)

Modulation of the Immune System in Feto-Maternal Tissues by Prebiotics Supplementation During Pregnancy: a Future Strategy for Allergy Prevention

Carole Brosseau
(France)

Impact of Prebiotics Supplementation During Pregnancy on Food Allergy Development in Offspring

Amandine Selle
(France)

Short chain fatty acids augment differentiation and function of human induced regulatory T cells

Mingjing Hu
(Australia)

Does Dairy Fat Alters the Gut Microbiome of Australian Children? A Randomised Controlled Trial*

Claus Christophersen
(Australia)

Group discussions will be deferred to “Around Campfire” live interactive discussions. You can submit comments to the chair of this session now, or wait to bring your ideas to the “campfire”

*written abstract only (no presentation)

Session close

Session Nine

From the Grassroots: Change through Communities and Networks

Tuesday Dec 8
(and any time thereafter)



Welcome to Session (Chair)

Susan Berman

Inspiring hope through stories of grassroots action: using impact-driven film to accelerate change. A message from the Redford Center

Founded by Robert Redford and son James Redford, The Redford Center uses film and media to accelerate environmental and climate justice, solutions and repair—balancing out the pervasive, alarmist environmental narrative with stories of individuals, communities and organizations taking action to protect and restore the planet.

Jill Tidman
Executive Director
(USA)

Galvanising action towards justice in a greener and healthier future – addressing Health disparities created by COVID-19 in Detroit

Nicholas
J. Schroeck (USA)

Co-creating multi-system human and planetary resilience with nature: Using ecology, campaigns and activism for transformation

Robert Verkerk
(UK)

Life knowledge for preventing lifestyle diseases: Experiential culinary and lifestyle learning for medical students

Chris D'Adamo
(USA)

Mission Thrive Community-Based programs: empowering youth, families, and communities to make lifestyle changes that support their health and well-being.

A collaboration between The Institute for Integrative Health and Civic Works Real Food Farms, Baltimore

Brian Berman and
The Institute for
Integrative Health
(USA)

Mindfulness at Patterson Partnership: impact of a school-wide mindfulness program on attitudes, behavior and performance

Brandin Bowden
(USA)

(all these talks are scheduled for 10 minutes each)

Cont...

...Cont.

Taking the planetary health pledge:

University of Minnesota School of Nursing leads by example

Courtesy of Teddie M. Potter and the students and staff at Minnesota School of Nursing

Engaging Healthcare Professionals in the planetary health narrative:
development and rationale for a planetary health pledge

Kathy Wabnitz
(UK)

5 minute stretch break - with replay of photo album from last meetings!

LIGHTNING TALKS – presenters have been asked to tell their story in 3 minutes with 1 bonus minute to explain the wider relevance and what they would personally love to see in the future

Narrative Medicine and Planetary Health: Promoting Physician Wellness in the Shadow of a Pandemic

Mona El-Sherbini
(Egypt)

A Case Study on Impacts of Student Organizations Focused on Planetary Health

Taylor Hirschberg
(USA)

240 seconds of Lockdown: A short film, giving a “lightning” perspective on the opportunities of the COVID-19 Pandemic for the greater good of our world and planet.

Abdelrahman
Ahmed El-Badry
(Egypt)

Influence of Community Governance on Planetary Health in Fiji

Sarah Nelson
(Australia)

The Watershed Interventions for Systems Health in Fiji project: a Model for Adaptive Management of Catchment-to-Reef Social-Ecological Systems

Aaron Jenkins
(Australia)

Making planetary health part of professional health care: Blurring the Boundaries between Patient, Professional, Personal, Body, and Healthcare Practice as a Way of Life

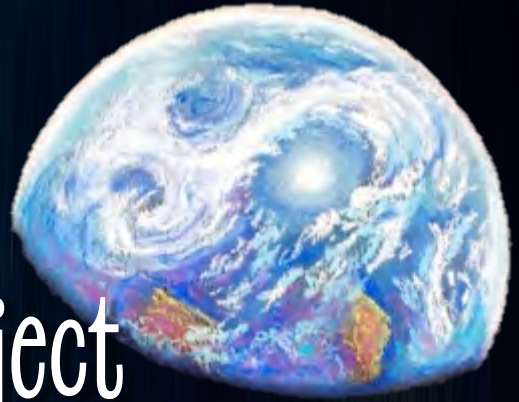
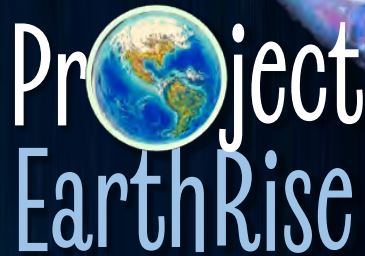
Filip Maric
(Norway)

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Session close

Session Ten

Taking it forward



Wednesday Dec 9
(and any time thereafter)

Earthrise video and Welcome to Session (Chair)	Susan Prescott
Taking the leap of faith	Cornel West
Inspiring social and cultural change: the importance of imagination	Blake Poland
Creating new narratives for systemic solutions: co-creating a story to enliven connectivity between individuals, communities and the planet	Jamie Harvie
Touchpoints for action: interwoven global conversations and threads connecting different global efforts	Margot Parkes
Putting it Back Together to Move Forward	George Kaplan
From “Me” to “We” – How to Promote Wellness and Fairness for People, Places and the Planet	Isaac Prilleltensky
Towards more mindful societies —political discourse that tackles societal challenges at the level of the human heart and mind	Jamie Bristow
Are we being good ancestors —for our grand children's grand children?	Brian Berman
Depolarizing the cultural divide: A path for social healing	Kirk Schneider
Starting a much bigger conversation:	
Taking it Forward – Project Earthrise	Susan Prescott
Conclusion and thanks, including where we take it from here!	Susan Prescott

Conversation at the Campfire (2)

LIVE INTERACTIVE
DISCUSSION

Wednesday Dec 9 ONLY



JOIN US LIVE to discuss ideas, questions from any session so far and opportunities arising as we take this forward to 2021 and beyond!

Wednesday Dec 9

8pm UTC	(GMT)
9pm CET	(Europe)
3pm EST	(N.America)
12pm PST	(N.America)
+4am AWST	(Australia)
+7am AEDT	(Australia)

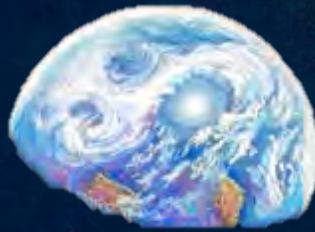
This is another opportunity for everyone to share their thoughts, ideas and reflections, after the full conference program has been completed. In particular, we invite people to share ideas on how to take emerging themes and ideas forward, including how they would like our network to evolve.

As in our previous "campfire", we will ask the chairs of each session (7-10) to get the ball rolling so far to share their thoughts and feedback from participants during their session, inviting further comment from others.

Again, there are no obligations or expectations – whatever happens is right.

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It lasts for as long as long we want it to last.

"Visualizing possibility is fundamental for flourishing—creating imaginative solutions while generating hope and enthusiasm to energise action towards transformation"



Publish **your work!**

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1. New *IJERPH* Special Issue



International Journal of
*Environmental Research
and Public Health*

We have a new PubMed indexed special issue on [Planetary Health](#) to celebrate our 2020 meeting in *IJERPH*. We encourage submissions related to any relevant topics, particularly those submitted for our 2020 meeting. **NOW OPEN (until October 2021).**
https://www.mdpi.com/journal/ijerph/special_issues/PlanetaryHealth

**All inVIVO members receive a 20%
discount on Article Processing Charges.**

2. Submit to *Challenges*



challenges
an Open Access Journal by MDPI

Our own multidisciplinary journal *Challenges* encourages diverse work spanning all the Grand Challenges of our time - an ideal fit for inVIVO. This is a **open access** peer-review journal that promises very rapid publication – this will **remain free of charge** for inVIVO members in 2020.

Please visit the [Challenges website](#) for more information, or contact our Editor-in-Chief, Professor Susan Prescott.

For more on our philosophies: Please see the [Canmore Declaration](#), which was a key outcome of our 2018 conference. This is intended to be both a foundation and a “way-finder” for our network going forward, and articulates the 10 principles for planetary health, that guide the inVIVO vision.

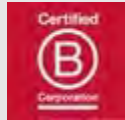
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inVIVO favors Certified B Corporations

About B Corps: Society's most challenging problems cannot be solved by government and nonprofits alone. B Corps form a community of leaders and drive a **global movement** of people **using business as a force for good**. B Corps are accelerating a **global culture shift** to redefine success in business and build a more **inclusive** and **sustainable** economy. These businesses meet the highest standards of verified **social** and **environmental** performance, public **transparency**, and legal accountability to **balance profit and purpose**. The B Corp community works toward reduced inequality, lower levels of poverty, a **healthier environment**, stronger **communities**, and the creation of more high quality jobs with dignity and purpose. By harnessing the power of business, B Corps use profits and growth as a means to a greater end: positive impact for their employees, communities, and the environment.

We invite new B-Corp partners, and we encourage all our members to choose B-Corp products and services.

