Climate change, biodiversity and health

Looking for solutions and co-benefits

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Key topics

- Climate change, biodiversity and health
  - Urgency
  - Intertwined challenges
- Stakeholder engagement
  - Role
  - Key results
- Solutions and co-benefits
  - Research recommendations
  - How can research support policy-making and help to improve policies and practices?
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Climate change, biodiversity and health – urgent and intertwined challenges

- Wicked circle: solving one problem may worsen the other
- Increasingly interrelated in policy
  - IPBES-IPCC Co-Sponsored Workshop Report on Biodiversity and Climate Change (2021)

Wide stakeholder consultation

Exploration stakeholder perspectives:
- key challenges health, environmental climate change nexus
- related development in policies and practices
- related knowledge needs
Key research needs of the stakeholders (1/2)

- Improve knowledge on drivers – impacts – interlinkages
  - Sustainable development – climate mitigation – adaptation – biodiversity

- Include socio-economic and socio-ecological aspects in research and policies
  - (environmental) health risks affect different population groups differently
  - This may produce and maintain social disadvantages and can increase vulnerability
  - How to integrate justice perspectives in research?

- Improve data collection, monitoring and sharing
  - How can research data be better shared and utilized?
  - How can citizen science contribute to data collection and monitoring?
Key research needs of the stakeholders (1/2)

- Encourage integrated/holistic/systemic research approaches
  - To enable transformative change

- Strengthen multi-, inter- and transdisciplinary research
  - Include social and behavioural sciences
  - Integration of natural and social sciences

- Improve stakeholder engagement, develop science-policy interface
  - Include citizen science and participatory methods in research
Transformative change

A JUST TRANSITION TO A SUSTAINABLE FUTURE

Risks and concerns

Co-effects

The current situation

Co-benefits

Risk governance

New pathways

New ways for science and research

Education and awareness raising
From stakeholder perspective to research recommendations
Towards integrated health impact assessment: climate change

- Integrated health impact assessment mitigation and adaptation measures: identify co-benefits and co-harms
  - Special focus on under-researched health impacts (e.g. mental health) and vulnerable population groups in relation to climate change
- Development integrated forecast models and improved surveillance system
- Investigate the interlinkages between biodiversity, ecological integrity and human health and well-being
Nature-based solutions as an example for co-benefits

- Nature-based interventions for encouraging positive biodiversity-health linkages (urban-rural)
- Analysis and quantification of expected health risks and co-benefits from adaptation measures such as green and blue interventions
One health, planetary health

- Framework for exploring nature-related health risks and benefits
- The social-ecology and evolution of biological agents
- Development of European planetary diet
  - Integrating biodiversity, soil health and healthy food
- Towards integrated planetary health monitoring
Effective implementations through improved science-policy-society dialogue

How to achieve societal change and support for a transformation towards more sustainable, healthy and resilient societies?

Development of climate mitigation measures and sustainable technology for health sector
Conclusions: How can research support policy-making and help to improve policies and practices

- Acknowledge urgent need for (integrated) research on climate change, biodiversity and health
- Co-create and implement effective policies and practices on mitigation and adaptation
- Apply holistic approaches such as OneHealth and Planetary health
- Include socio-economic and socio-ecological aspects in climate change and health research and policies on climate change
Thank you

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WP3 team
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