

# Promoting to nature: a solution for human health, development well-being

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## **International Conference of Young Researchers in Psychology**

Promoting exposure to nature: a solution for human health, development and well-being





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# <u>Urbanisation: a growing phenomenon</u>

#### A complex socio-economic process based on:

- the transformation of rural areas into urban areas (expansion of cities),
- the displacement of rural populations to urban areas [1,2].

In 2050, 68% of the world's population is expected to be urban (6.7 billion people) [1].

- Changes in people's habits and life dynamics that could have deleterious physical, mental or social consequences for humans [1].
- **Urban areas:** higher risk of depression, anxiety disorders, psychosis, schizophrenia, dementia or hyperactivity problems [5,6,7,8,9].
- **Possible explanation:** urban dwellers are less exposed to natural areas and therefore benefit less from nature and its emotional, cognitive and behavioural benefits [5,10].



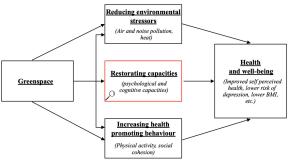
Development innovation hubs, better access to educational, medical and services, etc.

The cities:

favourable to the development of people of all ages

Air and noise pollution, heat islands, sedentary lifestyle, overstimulation,

## The health benefits of nature



In this **biopsychosocial model**, Markevych et al. [11] described three potential mechanisms for the benefits of nature on people's health.



#### The restorative effect of nature

#### Stress Reduction Theory (TRS) [12]

- Older theory with a **psycho-physiological** point of view.
- Nature: decreased physiological activation in stressed and unstressed individuals (lesser effect).
- Automatic response to exposure to nature linked to the importance of natural places in human evolution [13].
- Condition: to be beneficial the environment must be perceived as safe by people [14].

#### Attention Restoration Theory (TRA) [15]

- Urban environments: many stimuli are the cause to depletion of directed attention capacities (impacts other cognitive functions (e.g. working memory) and mood (irritability).
- In contrast, natural environments are considered restorative and allow people to restore their resources to "function" properly.
- A restorative environment has four characteristics: **being away of the** quotidian, being rich and coherent, promoting fascination and being compatible with expectations.

promoting health and helping to control non-

communicable diseases (e.g. mental illness)



# The benefits of nature: health, psychological and cognitive aspects



- improving mood
- improving self-esteem
- reducing stress/anxiety
- reducing ruminations
- promotes recovery from a stressful event
- promoting a state of relaxation (increased parasympathetic activity))
- improving attentional capacity
- improving working memory capacity









limiting the cognitive decline in elderly people Promoting self-regulation

development of children

reducing behavioural difficulties in children and adolescents

Promoting the cognitive, social, language, motor and emotional

reduces ADHD symptoms

enhancing well-being

promoting self-fulfilment

# **Conclusion and perspectives**



The restorative effect of nature is **"robust and generalisable"** [13] as this effect would be identifiable regardless of the study population, duration, means of exposure, or type of natural environments [17].

**Contact with nature:** beneficial effects on individuals in a wide range of domains, from daily life to schooling, work and medical care.

City dwellers are less in contact with real nature, so they regularly use substitutes (photographs, videos, virtual reality) [18].

However, mediatised nature, however effective it may be, does not completely replace 'real' nature [19].



In the

long

term

