ORUS



Università degli studi "G. d'Annunzio"

Universities for Adaptation: nature-based solutions and skills for resilience

Italy Pavilion

November 15th 2025

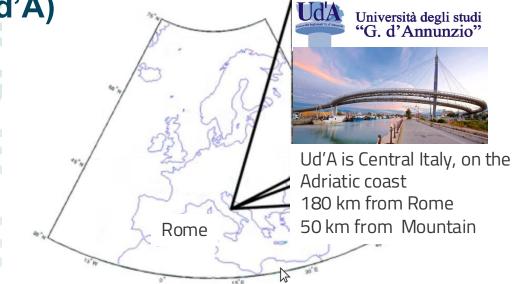
Piero Di Carlo

University 'G. d'Annunzio' of Chieti-Pescara

Ongoing projects (Vitality) and planned infrastructures using nature-based solution for resilience



University 'G. d'Annunzio' of Chieti-Pescara (Ud'A)



133,928 m2 of surface with planted vegetation 24,056 m2 of forest vegetation

Ud'A was estabilished in 1965 and includes **16 Departments and 3 Schools.**

Ud'A has tuo campus: one in **Chieti**, the other one in **Pescara**.

Prof and researchers: 760

AREA SANITARIA

- 14 Corsi di Laurea
- 01 Corsi di Laurea Magistrale
- **04** Corsi di Laurea Magistrale a Ciclo Unico

AREA UMANISTICA

- **05** Corsi di Laurea
- 05 Corsi di Laurea Magistrale

AREA SCIENTIFICA

- 07 Corsi di Laurea
- 07 Corsi di Laurea Magistrale
- **01** Corsi di Laurea Magistrale a Ciclo Unico

AREA SOCIALE

- 09 Corsi di Laurea
- 15 Corsi di Laurea Magistrale

- **Bacelor Degree**
- 28
- Master Degree.

05

Medicine and Dentistry Degree.



- 19
- PhD program
- 09
- Master di I Livello
- 16
- Master di II Livello
- 35
- Scuole di Specializzazione
- 06
- Corsi di Perfezionamento

Chieti Campus Regeneration (ongoing)



- Reduction of potential thermal loads through a series of passive strategies (north-facing offices and south-facing classrooms).
- Production of energy from renewable sources photovoltaic system both on the roof and on the south facade.
- Reduction of the urban heat island effect through the creation of the large canopy green, the presence of vegetation, permeable and reflective materials.

• Decrease in the temperature perceived by users in open spaces thanks to evapotranspiration of vegetation

- High energy efficiency through the optimization of the plant
- Effective management of water resources: collection and reuse of rainwater.



Pescara Campus Regeneration (completed)





68 more trees of various species:

8 red maple

16 laurel

14 birch

14 strawberry tree

16 alder







Vitality: One-Health telemedicine and environment

The project background

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nature

Article | Published: 05 April 2023

Lung adenocarcinoma promotion by air pollutants

William Hill, Emilia L. Lim, Clare E. Weeden, Claudia Lee, Marcellus Augustine, Kezhong Chen, Feng-C

nature

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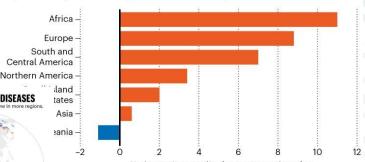
Article | Published: 12 February 2020

Premature mortality related to United States crossstate air pollution

Irene C. Dedoussi, Sebastian D. Eastham, Erwan Monier & Steven R. H. Barrett □

LIVES LOST FROM EXTREME HEAT

People over 65 years old are at greatest risk of mortality from extreme heat.



% change in mortality from extreme heat for people over 65 from 2000-05 to 2017-22

The project backgroun



The contribution of outdoor air pollution sources to

nature

nature > letters > article

Letter | Published: 16 September 2015



Università degli Studi «G. d'Annunzio: Componente 2 - M4C2 Investimento 1.5. Creaz novazione", costruzione di "leader territoriali d

Area newly suitable for transmission*
• Plasmodium falciparum • P. vivax

Uda Conversión degli studi - G. d'Annession

Università degli studi "G. d'Annunzio"

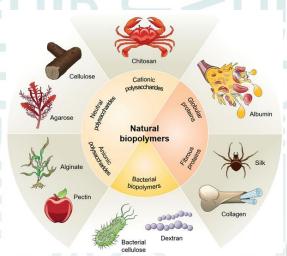




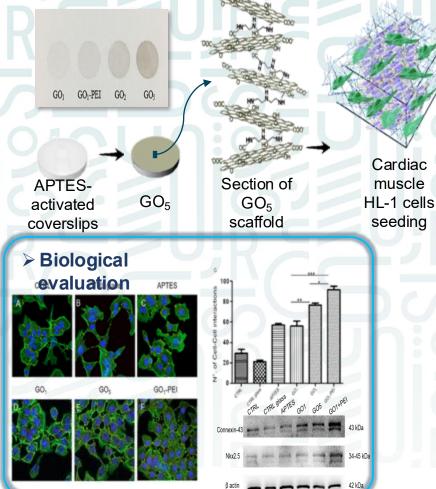




Vitality: Natural – based biomaterials for regeneration and medicine



 Biomaterial for medical, farmaceutical and dentistry application



Hindawi
Mediators of Inflammation
Volume 2021, Article ID 5563240, 9 pages
https://doi.org/10.1155/2021/5562340

Research Article

Assessment of the Vanillin Anti-Inflammatory and Regenerative
Potentials in Inflamed Primary Human Gingival Fibroblast

Erica Costantini , Bruna Sinjari , Katia Falasca , Marcella Reale , Sergio Caputi , Srinivas Jagarlapodii , and Giovanna Murmura , SELECTIVE
BACTERIAL
colonization

SELECTIVE
BACTERIAL
colonization

Pumpulation

Primary Human Gingival Fibroblast

Selective
Bacterial
colonization

Primary Human Gingival Fibroblast

Selective
Bacterial
colonization

Primary Human Gingival Fibroblast

Selective
Bacterial
colonization

Bruna SINJARI: Innovative, Naturalbased, Antioxidant, Spring water Composite membrane for Oral health

Barone A,...., Celia C,... Drug Deliv Transl Res. 2023;13(12):3154-3168. doi: 10.1007/s13346-023-01378-9.