

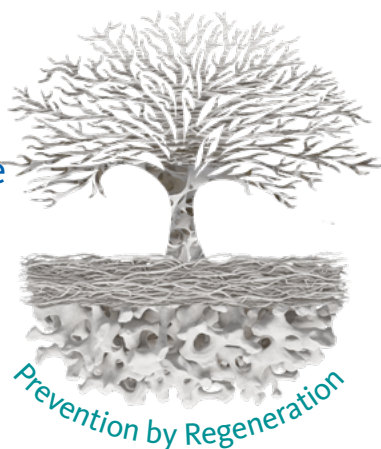


Prevention by Regeneration

Keep Australia cool in a warmer future!

Geistlich Pharma Australia has partnered with Carbon Neutral** to support landscape restoration and regeneration of a natural ecosystem in Australia.

For **EVERY 3** Geistlich products purchased during March - May'20, Geistlich Pharma AU will plant a tree on behalf of your practice and send you a certificate of appreciation from Carbon Neutral*.



How do trees change the climate?

Land clearing releases greenhouse gases into the atmosphere, but the effect of land clearing on climate goes well beyond carbon emissions. It causes warming locally, regionally and even globally, and it changes rainfall by altering the circulation of heat and moisture. Trees evaporate more water than any other vegetation type – up to 10 times more than crops and pastures. This is because trees have root systems that can access moisture deep within the soil. Crops and pastures have 70% of their roots in the top 30cm of the soil, while trees and other woody plants have 43% of their roots in the deeper part of the soil. The increased evaporation and rough surface of trees creates moist, turbulent layers in the lower atmosphere. This reduces temperatures and contributes to cloud formation and increased rainfall. The increased rainfall then provides more moisture to soils and vegetation.

More trees, cooler moister climate

Replanting trees could increase summer rainfall by 10% overall and by up to 15.2% in the southwest. The study proves that soil moisture would increase by around 20% in replanted regions. It doesn't mean replanting all farmed land with trees, just areas that are less productive and less cost-effective to farm intensively. The areas that are restored in western Queensland and NSW would need a tree density of around 40%, which would allow a grassy understorey to be maintained. This would allow some production to continue such as cattle grazing at lower numbers or carbon farming.

Full article: <https://theconversation.com/stopping-land-clearing-and-replanting-trees-could-help-keep-australia-cool-in-a-warmer-future-63654>

Published on The Conversation by Clive McAlpine, Professor, The University of Queensland; Jozef Syktus, Principal Research, Fellow, Global Change Institute, The University of Queensland; Leonie Seabrook, Landscape Ecologist, The University of Queensland.



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*Not applicable for Government and Corporate accounts.
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*Valid between 1st March – 31st May 2020

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