

62nd FEFCO

Forest Ecosystem Function Colloquium (FEFCO) は、地域や地球全体のレベルで森林生態系の機能とその持続的活用法を統合的に理解することを目的とし、研究者間の学術交流を推進します。

第62回森林生態系機能コロキウムは、オックスフォード大学よりYadvinder Malhi 教授にご講演いただきます。どなたでも参加できますので、多くの皆様のご参加をお待ちしております。京都大学農学研究科熱帯環境学研究室がホストを務めます。

62nd FEFCO
2023/4/5 16:30 - 18:00
Faculty of Agriculture Main Building, W214



↑ For online registration

Dr. Yadvinder Malhi
(Professor of Ecosystem Science at Oxford University,
Director of the Leverhulme Centre for Nature Recovery and
President of the British Ecological Society)

The productivity, carbon dynamics and energetics of tropical forests: new insights from a global monitoring network

Tropical forests show strong geographical variation in ecosystem functions, but the role of climate, soils and biogeography in shaping these patterns remains unclear. I show results from our studies across the tropics as part of the GEM (Global Ecosystems Monitoring Network), exploring the factors that contribute to geographical variation in productivity and carbon cycling, their link to canopy traits and the possibility of mapping this geographical variation using satellite remote sensing. I then explore a case study along a logging gradient in Malaysian Borneo in more detail, describing how nutrient and carbon cycling vary with logging intensity and also what fraction of productivity ends up in birds and mammals. The energy analysis finds some surprising results, suggesting that logged forests can be more ecologically vibrant than expected and questioning the widespread use of the concept of degradation.