Dear …

We would like to invite you to participate in the [Global Spectra-Trait Initiative (GSTI)](https://github.com/TESTgroup-BNL/gsti). The aim of this project is to gather paired spectra and trait data related to the photosynthetic capacity of leaves from multiple species and biomes to build generalizable spectra trait PLSR models. The traits that are currently included in the database are the maximum carboxylation rate of rubisco (*Vc*max), the maximum electron transport rate (*J*max), the dark respiration rate (*Rd*ark), as well as the leaf nitrogen content (Narea), leaf mass per area (LMA), and leaf water content (LWC). The repository already includes a diverse range of data, from the Arctic to the tropics, consisting of more than 150 species and more than 1500 leaves.

As you have a history of publishing high quality paired spectra and trait data, we would like to invite you to contribute datasets and be part of this initiative. By contributing your data, you will help to grow this valuable community tool, and ensure participation in any forthcoming publications resulting from this initiative. In fact, we plan to publish a preliminary article associated with this community database in mid 2023.

Requirements for contributed datasets are minimal; we ask for the raw A-Ci data, full range reflectance data, and basic information on your experimental protocol. After data are submitted, we will process the data using a standard processing pipeline. Alliteratively, we welcome participants to process their own data using our standardized data processing scripts. This allows us to homogenize and standardize data measured in different places by different teams.

Detailed information on the GSTI project can be found here: <https://github.com/TESTgroup-BNL/gsti>.

Please, don’t hesitate to contact us if you have questions, and feel free to share this invitation with other researchers. GSTI is a community project, and we need everyone’s help to see it grow

Best regards,

XXXX on behalf of the other co-authors.