

Putting DNA & Stable Isotopes Timber Tracking Technologies into Practice

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and Origins**

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Improving lives through biodiversity research

Range of differentiation provided by DNA & stable isotopes

Level	DNA	Stable isotopes
1. Species check - Verify species identity	X	
2. Individual log tracking - Verify chain-of-custody	X	
3. Concession of origin - Verify sustainable source	X	X
4. Regional origin - Verify country source	X	X



Some features of DNA & stable isotopes timber tracking

- Control of **traits inherent to the wood**
(manipulation not possible)
- Applicable to **processed wood**
- Control **rapid** and **cost-effective**
- No **substitution** with *existing CoC timber tracking systems*



Project “Identification of Timber Species and Origins”

Objective

To facilitate the practical application of timber tracking tools using DNA and stable isotope fingerprints for a number of priority timber species



Federal Ministry
of Food, Agriculture
and Consumer Protection



Tasks & responsibilities

1. Coordination and networking
2. International standard setting
3. International open access database



1. Coordination and networking

Create and maintain a network of experts and institutes that have research and/or are implementing activities in the fields of:

- Identifying origin of timber with DNA-based methods, stable isotopes and wood anatomical identification)
- Phylogeographic studies of timber species

2. International standards

Standards for:

- Sampling design,
- Sampling methods,
- Samples storage and documentation,
- DNA extraction and genotyping techniques,
- Stable isotopes fingerprinting,
- Data analysis.

3. International open access database

- Development and maintenance of an online **database** with geo-referenced data on genetic structure and stable isotopes of priority species,
- Development of **agreement** for data input and use of the database,
- Elaboration of **accreditation** systems for private and public labs.



Global Timber Tracking Network (GTTN)

Goal

To promote the integrated use of innovative control tools (including DNA & stable isotope fingerprinting techniques) with the existing timber tracking systems, certification standards, regulations and legislation to ensure legal timber trade and curb illegal and unsustainable logging.





Past & coming events

- Inception Workshop, KL, 24-25 May
- 1st Steering Committee Meeting, KL, 26 May
- Side event in Kumassi (23rd May 2012)
- Regional workshop for Asia-Pacific (End August 2012)
- Regional workshop Americas (March 2013)

www.globaltimbertrackingnetwork.org

Thank you

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