



# GENECOIN

**Blockchain for Biodiversity**





## ❖ **Blockchain:**

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- ❖ All transactions within the network are immutable and timestamped;



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- ❖ Blockchain is not Bitcoin;
- ❖ Metaphor: Blockchain as an Excel spreadsheet powered by cryptography;
- ❖ All transactions within the network are immutable and timestamped;
- ❖ In its 10 years of existence, no one has ever successfully hacked Bitcoin's blockchain.



## ❖ Blockchain:

- ❖ Established use cases:
  - Transfer of value;
  - Proof of existence, provenance or ownership;
  - Creation of self-executing and self-enforcing **smart contracts**;



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- ❖ Established use cases:
  - Transfer of value;
  - Proof of existence, provenance or ownership;
  - Creation of self-executing and self-enforcing **smart contracts**;
- ❖ New blockchain protocols don't rely on such heavy computation and/or allow for privacy;



## ❖ **Blockchain for Biodiversity:**

- ❖ Tracking biodiversity assets and auditing their supply chains;



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- ❖ Smart contracts as a tool to set predefined terms for biodiversity access and self-execute compliance to ABS regulations;



## ❖ **Blockchain for Biodiversity:**

- ❖ Tracking biodiversity assets and auditing their supply chains;
- ❖ Smart contracts as a tool to set predefined terms for biodiversity access and self-execute compliance to ABS regulations;
- ❖ Transparent Benefit Sharing.

 Contract forms Verify authenticity Supply Chain Blockchain

# Register **data**

Choose a category to register content.



Species



DNA sequence

Chemical  
analysis result

PI

# Connect **previous records**

Registering documents that are connected? Click here to build a link between them.



 Contract forms Verify authenticity Supply Chain Blockchain

Species scientific name

protium|

Protium Burm.f.

Protium maestrense Bisbe

Protium macrosepala Swart

Protium subacuminatum Swart

Protium robustum (Swart) D.M.Porter

ex: Amazônia

Latitude

ex: 40.714358

Longitude

ex: 40.714358

Document Hash

Enter document hash (SHA 256)



- ❖ Protium sequences 0x2c34c18bb34ccbc79cd33e87346f0142a8863c94
- ❖ Protium chemistry 0x771572c970effe214af280b1be24fb9855630383
- ❖ Preliminary analysis genomics
  - cdhit100: 0x68d781f4f641d0db24f5a0feb4413397e0e73dc1
  - scarf seq: 0x16df6f27c5fbfd7bbfa12831b794266dadc12f28
  - blast: 0x771b3479f1a91e17617a9569103ec79125695e8d
- ❖ Full article (pre print) 0x13054ef4c3059fa633034b69ff97d15bc5764c50

Contract forms

Verify authenticity

Supply Chain

Blockchain

# Visualize the **supply chain**

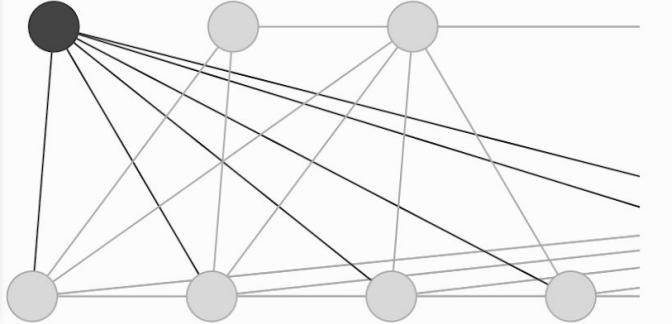
Enter the hash (SHA 256) of your document and visualize the supply chain.



Species scientific name  
Protium kleinii Cuatrec.

GBIF species ID  
3992786

Contract Address  
0x3e9a13d9e7a66ef0c9e6b48e286c0fb556fb75



 Contract forms

 Verify authenticity

 Supply Chain

 Blockchain

# Content **authenticity**

Enter the contract address and validate its autheticity.

Contract Address

Enter contract address

PDF Hash

Enter PDF hash

Verify

 Contract forms Verify authenticity Supply Chain Blockchain

# Visualize the **blockchain system**

Here you can visualize our blockchain system filtering by all or only Genecoin transactions occurring live.



 Contract forms Verify authenticity Supply Chain Blockchain

# Visualize the **blockchain system**

Here you can visualize our blockchain system filtering by all or only Genecoin transactions occurring live.

All  Genecoin





## ❖ Declared data

x

## Non-declared data







GENECOIN

- ❖ **Blockchain powered  
DSI Database**





## ❖ **Blockchain powered DSI Database:**

- ❖ Ownership of data & privacy when necessary
  - Zero proof knowledges;
- ❖ Effortless tracking of all provenance of data used for example;
- ❖ Self-executing and self-enforced benefit sharing;
  - Coding multilateral agreements is as easy as coding bilateral agreements.



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