

Phylotastic Web Services Documentation

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Web Service 1.

Service Name: Find Scientific Names on web pages

Service Description: A service to find scientific names on web pages, PDFs, Microsoft Office documents, images.

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_url

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

Name: url
Category: mandatory
Data Type: string
Description: an encoded URL for a web page, PDF, Microsoft Office document, or image file

Examples:

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_url?url=http://en.wikipedia.org/wiki/Ant

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_url?url=https://en.wikipedia.org/wiki/Plain_pigeon

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_url?url=http://www.fws.gov/westvirginiafieldoffice/PDF/beechnridgehpc/Appendix_D_Table_D-1.pdf

Citation: <http://gnrd.globalnames.org/>

Service Quality:

Restrictions on capacity:
Restrictions on scope:
Expected response time: 5s~12s

Informative message:

- i) when service is down -
- ii) when malformed input is provided -

Uptime:

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Web Service 2.

Service Name: Find Scientific Names on free-form text

Service Description: A service to find scientific names on free-form text.

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_text

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

Name: text
Category: mandatory
Data Type: string
Description: text content

Examples:

[http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_text?text=The lemon dove \(Columba larvata\) is a species of bird in the pigeon family Columbidae found in montane forests of sub-Saharan Africa.](http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_text?text=The%20lemon%20dove%20(Columba%20larvata)%20is%20a%20species%20of%20bird%20in%20the%20pigeon%20family%20Columbidae%20found%20in%20montane%20forests%20of%20sub-Saharan%20Africa.)

[http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_text?text=Formica polycтена is a species of European red wood ant in the genus Formica. The pavement ant, Tetramorium caespitum is an ant native to Europe. Pseudomyrmex is a genus of stinging, wasp-like ants. Adetomyrma venatrix is an endangered species of ants endemic to Madagascar. Carebara diversa is a species of ants in the subfamily Formicinae. It is found in many Asian countries.](http://phylo.cs.nmsu.edu:5004/phylotastic_ws/fn/names_text?text=Formica%20polycтена%20is%20a%20species%20of%20European%20red%20wood%20ant%20in%20the%20genus%20Formica.)

Citation: <http://gnrd.globalnames.org/>

Service Quality:

Restrictions on capacity:

Restrictions on scope:
Expected response time: 5s~12s
Informative message:
i) when service is down -
ii) when malformed input is provided -
Uptime:

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Web Service 3.

Service Name: Resolve Scientific Names with Open Tree TNRS

Service Description: A service which resolves lists of scientific names against known sources.

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/ot/resolve

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

<i>Name:</i>	names
<i>Category:</i>	mandatory
<i>Data Type:</i>	string
<i>Description:</i>	list of scientific names delimited by pipe " "

Examples:

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/ot/resolve?names=Setophaga striata|Setophaga megnolia|Setophaga angilae|Setophaga plumbea|Setophaga virens

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/ot/resolve?names=Formica polycтена|Formica exsectoides|Formica pecefica

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/ot/names

HTTP Method: POST

Input Format: application/json

Output Format: application/json

Parameters:

Name: scientificNames
Category: mandatory
Data Type: list of string
Description: list of scientific names to be resolved

Examples:

```
curl -X POST "http://phylo.cs.nmsu.edu:5004/phylostatic_ws/tnrs/ot/names" -H "content-type:application/json" -d '{"scientificNames": ["Formica exsectoides", "Formica pecefica", "Formica polycтена"]}'
```

Citation: <https://github.com/OpenTreeOfLife/opentree/wiki/Open-Tree-of-Life-APIs#tnrs>

Service Quality:

Restrictions on capacity:
Restrictions on scope:
Expected response time: 3s~10s
Informative message:
i) when service is down -
ii) when malformed input is provided -
Uptime:

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Web Service 4.

Service Name: Resolve Scientific Names with GNR TNRS

Service Description: A service which resolves lists of scientific names against known sources.

Resource URI: http://phylo.cs.nmsu.edu:5004/phylostatic_ws/tnrs/gnr/resolve

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

Name: names
Category: mandatory
Data Type: string
Description: list of scientific names delimited by pipe "|"

Examples:

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/gnr/resolve?names=Setophaga striata|Setophaga megnolia|Setophaga angilae|Setophaga plumbea|Setophaga virens

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/gnr/resolve?names=Formica polycтена|Formica exsectoides|Formica pecefica

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/gnr/names

HTTP Method: POST

Input Format: application/json

Output Format: application/json

Parameters:

Name: scientificNames
Category: mandatory
Data Type: list of string
Description: list of scientific names

Examples:

```
curl -X POST "http://phylo.cs.nmsu.edu:5004/phylotastic_ws/tnrs/gnr/names" -H "content-type:application/json" -d '{"scientificNames": ["Formica exsectoides", "Formica pecefica", "Formica polycтена"]}'
```

Citation: <http://resolver.globalnames.org/>

Service Quality:

Restrictions on capacity:
Restrictions on scope:

Expected response time: 2s~10s

Informative message:

i) when service is down -

ii) when malformed input is provided -

Uptime:

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Web Service 5.

Service Name: Get Phylogenetic Trees from Open Tree of Life

Service Description: A service to get Phylogenetic Trees from Open Tree of life.

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/gt/ot/get_tree

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

Name: taxa

Category: mandatory

Data Type: string

Description: list of resolved scientific names delimited by pipe "|"

Examples:

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/gt/ot/get_tree?taxa=Crabronidae|Ophiocordyceps|Megalyridae|Formica polyctena|Tetramorium caespitum|Pseudomyrmex|Carebara diversa|Formicinae

http://phylo.cs.nmsu.edu:5004/phylotastic_ws/gt/ot/get_tree?taxa=Setophaga striata|Setophaga magnolia|Setophaga angelae|Setophaga plumbea|Setophaga virens

Resource URI: http://phylo.cs.nmsu.edu:5004/phylotastic_ws/gt/ot/tree

HTTP Method: POST

Input Format: application/json

Output Format: application/json

Parameters:

Name: resolvedNames
Category: mandatory
Data Type: list of string
Description: list of resolved scientific names

Examples:

```
curl -X POST "http://phylo.cs.nmsu.edu:5004/phylostatic_ws/gt/ot/tree" -H "content-type:application/json" -d '{"resolvedNames": [{"match_type": "Exact", "resolver_name": "OT", "matched_name": "Setophaga striata", "search_string": "setophaga striata", "synonyms": ["Dendroica striata", "Setophaga striata"], "taxon_id": 60236}, {"match_type": "Fuzzy", "resolver_name": "OT", "matched_name": "Setophaga magnolia", "search_string": "setophaga magnolia", "synonyms": ["Dendroica magnolia", "Setophaga magnolia"], "taxon_id": 3597209}, {"match_type": "Exact", "resolver_name": "OT", "matched_name": "Setophaga angelae", "search_string": "setophaga angelae", "synonyms": ["Dendroica angelae", "Setophaga angelae"], "taxon_id": 3597191}, {"match_type": "Exact", "resolver_name": "OT", "matched_name": "Setophaga plumbea", "search_string": "setophaga plumbea", "synonyms": ["Dendroica plumbea", "Setophaga plumbea"], "taxon_id": 3597205}, {"match_type": "Fuzzy", "resolver_name": "OT", "matched_name": "Setophaga virens", "search_string": "setophaga virens", "synonyms": ["Dendroica virens", "Setophaga virens"], "taxon_id": 3597195}]}'
```

Citation: https://github.com/OpenTreeOfLife/opentree/wiki/Open-Tree-of-Life-APIs#tree_of_life

Service Quality:

Restrictions on capacity:
Restrictions on scope:
Expected response time: 3s~10s
Informative message:
i) when service is down -
ii) when malformed input is provided -
Uptime:

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Web Service 6.

Service Name: Get all Species from a Taxon

Service Description: A service to get all Species that belong to a particular Taxon.
[source: Open Tree of Life]

Resource URI: http://phylo.cs.nmsu.edu:5004/phyLOTASTIC_ws/ts/all_species

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

<i>Name:</i>	taxon
<i>Category:</i>	mandatory
<i>Data Type:</i>	string
<i>Description:</i>	name of a taxon

Examples:

http://phylo.cs.nmsu.edu:5004/phyLOTASTIC_ws/ts/all_species?taxon=Vulpes

http://phylo.cs.nmsu.edu:5004/phyLOTASTIC_ws/ts/all_species?taxon=Canidae

Citation: <https://github.com/OpenTreeOfLife/opentree/wiki/Open-Tree-of-Life-APIs#taxonomy>

Service Quality:

Restrictions on capacity:

Restrictions on scope:

Expected response time: 3s~12s

Informative message:

i) when service is down -

ii) when malformed input is provided -

Uptime:

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Web Service 7.

Service Name: Get all Species from a Taxon filtered by country

Service Description: A service to get all Species that belong to a particular Taxon and established in a particular country.
[source: Open Tree of Life, INaturalist]

Resource URI: http://phylo.cs.nmsu.edu:5004/phylo.tastic_ws/ts/country_species

HTTP Method: GET

Input Format: application/x-www-form-urlencoded

Output Format: application/json

Parameters:

Name: taxon
Category: mandatory
Data Type: string
Description: name of a taxon

Name: country
Category: mandatory
Data Type: string
Description: name of a country

Examples:

http://phylo.cs.nmsu.edu:5004/phylo.tastic_ws/ts/country_species?taxon=Panthera&country=Bangladesh

http://phylo.cs.nmsu.edu:5004/phylo.tastic_ws/ts/country_species?taxon=Felidae&country=India

Citation: <https://github.com/OpenTreeOfLife/opentree/wiki/Open-Tree-of-Life-APIs#taxonomy>

<http://www.inaturalist.org/pages/api+reference#get-places>

Service Quality:

Restrictions on capacity:

Restrictions on scope:

Expected response time: 3s~20s

Informative message:

i) when service is down -

ii) when malformed input is provided -

Uptime:

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