



Terminology Services 4 NFDI

Roman Baum

on behalf of the project team:

K. Bailly, S. Bouazzouni, K. Frey, N. Karam, A. Kesper,
O. Koepler, T. Mühlhaus, P. Oladazimi, J. Sasse, J. Voß

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Services Roadshow by



May 27, 2025

TS4NFDI - Terminology Service Suite (TSS)

TSS Demo

Outlook

TS4NFDI

Terminology Service Suite (TSS)

- information about TS4NFDI could be found in the previous roadshow



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- request of practical examples of the basic services



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- focus on the Terminology Service Suite



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- request of practical examples of the basic services
- focus on the Terminology Service Suite
- React + JavaScript based widgets



TS4NFDI

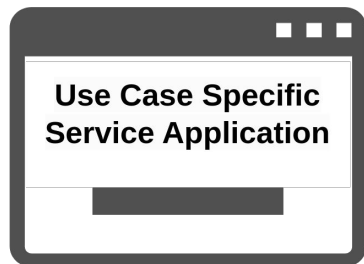
Terminology Service Suite (TSS)

- information about TS4NFDI could be found in the previous roadshow
- request of practical examples of the basic services
- focus on the Terminology Service Suite
 - React + JavaScript based widgets
 - integration of terminology data to third party (web) applications

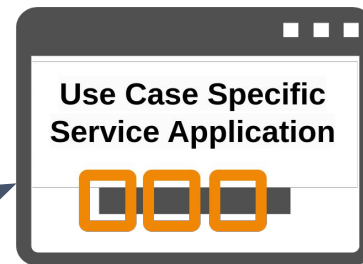
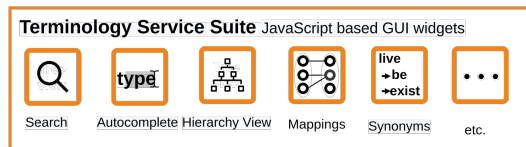


TS4NFDI

Terminology Service Suite (TSS)



- web services with data
 - annotation service
 - search engine
 - data repository



- FAIR web services with semantic data
 - annotation service
 - search engine
 - data repository

- **direct integration of terminologies to web services through widgets**

TS4NFDI

Terminology Service Suite (TSS)

preVIEW: COVID-19 ABOUT TUTORIAL CONTACT LOGIN

Refine your search. Currently 2,743 documents are matched

< 1 2 3 4 5 ... 138 > Documents per page: 20

Publication Date ?

Availability of peer-reviewed version

No peer-reviewed article

Linked through Crossref/preprint server

Found by Pre2Pub algorithm

Classification ?

Long COVID

Semantic Classifications

MESH > **D017563**

Lung Diseases, Interstitial

<http://uri.bioontology.org/ontology/MESH/D017563>

A diverse group of lung diseases that affect the lung parenchyma. They are characterized by an initial inflammation of PULMONARY ALVEOLI that extends to the interstitium and beyond leading to diffuse PULMONARY FIBROSIS. Interstitial lung diseases are classified by their etiology (known or unknown causes), and radiological-pathological features.

Alternative Names Hierarchy Cross references

- Pneumonia interstitialis (DE)
- Interstitial Pneumonitides
- Lung Disease, Interstitial
- Pneumonitis, interstielle (DE)
- Pneumonia, Interstitial
- Pneumonitis, Interstitial
- Diffuse Parenchymal Lung Diseases
- Interstitial Pneumonitis

COMPARATIVE CHARACTERISTICS OF THE ACCUMULATION OF DIFFERENT VARIANTS OF THE SARS-COV-2 VIRUS (WUHAN, DELTA, OMICRON) IN THE ORGANS OF MODEL ANIMALS

... Savenko, Veronika Schukina, Svetlana Loginova, Ivan Smirnov,

Source: biorxiv

... has proven to be extremely high, and the emergence of new strains raises ... and ability to bypass responses of the body's immune system induced by ... tasks is to study the pathogenesis of various variants of the virus using ... methods and approaches to fighting new viruses. Methods: 60 humanized ... WPRE-polyA) line (hACE2) were used. Mice were infected intranasally at ... Wuhan, Delta and Omicron. Results: We showed that humanized hACE2 virus, showed typical pathological changes in lung consistency comparable to ... interstitial pneumonia, characterized by inflammatory cell infiltration and ... image. Conclusions: At a dose of 4 lg plaque-forming unit (PFU), all variants ... shed only for the Wuhan and Delta variants. In a comparative assessment of ... house model of hACE2, it was found that the Delta variant leads to more

Highlight semantic concepts ?

- ☒ HUGO Gene Nomenclature Committee
- ☒ Medical Subject Headings - Diseases
- ☒ SARS-CoV-2 Proteins
- ☒ SARS-CoV-2 virus variants

[deselect all](#)

Sort by: publication date, descending

Source ?

Source	Count
researchsquare	474
medrxiv	304
proquest.org	174
arxiv	48
bioRxiv	34
bioRxiv	1,522

ANTI-INFLAMMATORY SMALL MOLECULES FOR COVID-19 ROACHES

... Olha O. Mykhailenko, Serhiy M. Kovalenko, Larisa V. Yeuslieva

TS4NFDI

Terminology Service Suite (TSS)

[About](#) [Tutorial](#)

Data overview

Delete all annotations

Data will be lost on software updates. Please export your data!

Export

Current variable

What is you sex?

< Previous variable

Annotation

No items found

Next variable >

Suggestion

Search

Search

Sex/gender |

- Sex MESH > D012723
- Sex MESH > D012723
- ✓ Sex/gender MAELSTROM > ZBMED_MS_0000000003
- Sexual behaviours and orientation MAELSTROM > ZBMED_MS_00000000026
- Sexual and Gender Disorders MESH > D019968
- Sexuality MESH > D019529
- Sexual and Gender Disorders MESH > D019968

Concept Information

MAELSTROM > ZBMED_MS_0000000003

http://semanticlookup.zbmed.de/km/MAELSTROM/ZBMED_MS_0000000003

Sex/gender

Information about sex (e.g. biological characteristics) or gender identity.

Alternative Names

Hierarchy

Cross references

Sex

Feedback

The screenshot displays the ChEBI (Chemical Entities of Biological Interest) web interface. At the top, there is a navigation bar with links to EMBL-EBI home, Services, Research, Training, About us, and a search icon. Below this, the ChEBI logo is visible on the left, and a search bar with the placeholder text "Enter your search term" and a "Search" button is on the right. The main content area is titled "CHEBI:24431 - chemical entity". On the right side of this area, there is a sidebar with the heading "On this page" and links to "Intro", "Ontology", and "Names". The main content area contains a table with the following information:

ChEBI ID	CHEBI:24431
ChEBI Name	chemical entity
Stars	★★★
Definition	A chemical entity is a physical entity of interest in chemistry including molecular entities, parts thereof, and chemical substances.
Last Modified	31 March 2015

Below the table, there is a section titled "ChEBI Ontology" with two tabs: "TEXT" and "TREE VIEW". The "TREE VIEW" tab is selected, showing a hierarchical tree structure of the ontology. The tree is highlighted with a blue box and contains the following items:

- chemical entity (199.266)
 - atom (278)
 - chemical substance (1.336)
 - group (3.102)
 - molecular entity (195.011)

At the bottom right of the page, there is a "Back to top" button.

TS4NFDI

Terminology Service Suite (TSS)

TS4NFDI

dan

Dandy-Walker syndrome **EFO** > EFO_1000890 ⓘ

A congenital abnormality of the central nervous system marked by failure of the midline structures of the cerebellum to develop, dilation of the fourth ventricle, and

dantrolene **EFO** > CHEBI_4317 ⓘ

The hydrazone resulting from the formal condensation of 5-(4-nitrophenyl)furfural with 1-aminohydantoin. A ryanodine receptor antagonist used for the relief of ch

danazol **EFO** > CHEBI_4315 ⓘ

Danio rerio **EFO** > NCBITaxon_7955 ⓘ

Danaus plexippus **EFO** > NCBITaxon_13037 ⓘ



Hands-On Workshop FDM@Campus - Göttingen - 24.09.2024

In den vergangenen zehn Jahren lässt sich eine signifikante Zunahme der Bedeutung und Wertschätzung für ein nachhaltiges Forschungsdatenmanagement (FDM) beobachten. Ein solches FDM ist von grundlegender Bedeutung, um die Auffindbarkeit, Identifizierbarkeit und Nachnutzbarkeit von Forschungsdaten im Sinne der FAIR-Prinzipien zu gewährleisten. Die korrekte Verwendung von Terminologien und deren Einbettung in Metadaten sind von entscheidender Bedeutung für ein strukturiertes, nachhaltiges Forschungsdatenmanagement.

Der Basisdienst Terminology Services 4 NFDI (TS4NFDI) unterstützt Kurator:innen sowie Wissenschaftler:innen bei ihrer Arbeit mit grafischen Webkomponenten aus der Terminologie Service Suite (TSS), um Forschungsdaten mit Terminologien zu annotieren und durchsuchbar zu machen. Der vorliegende Beitrag bietet eine Einführung in die Terminologie Service Suite und erläutert die zugrunde liegenden Motive, den strukturellen Aufbau sowie die praktische Anwendung. Im Folgenden werden konkrete Anwendungsbeispiele für die Einbindung von Terminologien in Webservices präsentiert, welche die Auffindbarkeit und Durchsuchbarkeit von strukturierten Forschungsdaten unterstützen.

Beispielhaftes Eingabeformular für FDM Daten aus RDMO

Wie lautet die primäre Forschungsfrage des Projektes?

Bitte beschreiben Sie kurz das Projekt und dessen Ziele.

Bitte geben Sie einige Schlagworte zur Forschungsfrage an.

Bitte nutzen Sie für die Einträge jeweils eine eigene Zeile. Sie können weitere Einträge mit dem grünen Button hinzufügen und mit dem blauen Kreuz (x) entfernen.

water|

Water

NCIT

>

NCIT_C65147

H₂O, a clear, colorless, odorless, taste...

water

CHEBI

>

CHEBI_15377

An oxygen hydride consisting of an oxyge...

water

FOODON

>

CHEBI_15377

An oxygen hydride consisting of an oxyge...

Water

LOINC

>


MTHU001475

TS4NFDI - Terminology Service Suite (TSS)

TSS Demo


Outlook

TSS Demo

RoadshowTSS DemoTSS Documentation [↗](#)Demo Repository [↗](#)About TS4NFDI [↗](#)People [↗](#)

Terminology Service Suite Demo @ 2nd Base4NFDI Roadshow

This is a mockup for the roadshow. In the background a small database is provided with some metadata and some mockup data.



number of search results: 3


• data item T4FS > T4FS_0000226 ⓘ

Type of data element that expresses a proposition that binds one or more property values to ...

• data item T4FS > IAO_0000027 ⓘ

An information content entity that is intended to be a truthful statement about something (m...


Title of some sam



This is description of the first entry of the mockup database. The picture of the left indicates that it contains a text document which was created with text editor such as Microsoft Word. But it would be also possible to create or edit this document with Libre Office Writer.

Keywords: [data](#)


Usage of terminology services @ NFDI



This [spreadsheet](#) provides an overview of terminology services integration in different application use cases which are used in the NFDI consortia. For an use case application some information like used terminology service are listed.

Keywords: [data item](#) [controlled vocabulary](#)


Another title for an entry with two keywords



This is description of the third entry of the mockup database. The picture of the left indicates that it contains a zip archive. Note: If you want to see more results in this list change the database from **sample-data.json** to **sample-data-large.json** in the file **0-demo-start-query-db.js**.

Keywords: [data item](#) [archive](#)

TSS Demo

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<> Code Issues Pull requests Actions Projects Security Insights

main 1 Branch 0 Tags Go to file <> Code ▾

 rombaum chore:initial commit 43b9374 · 8 minutes ago 1 Commit

css	chore:initial commit	8 minutes ago
data	chore:initial commit	8 minutes ago
demo-pages	chore:initial commit	8 minutes ago
images	chore:initial commit	8 minutes ago
js	chore:initial commit	8 minutes ago
.gitignore	chore:initial commit	8 minutes ago
LICENSE	chore:initial commit	8 minutes ago
README.md	chore:initial commit	8 minutes ago
index.html	chore:initial commit	8 minutes ago

README MIT license

2nd Base4NFDI Services Roadshow - Terminology Service Suite Demo

About

This repository integrate widgets of the terminology service suite in a demo project. The demo was shown at the 2nd Base4NFDI Roadshow im May 2025

www.base4nfdi.de/?view=article&id=...

- Readme
- MIT license
- Activity
- Custom properties
- 0 stars
- 0 watching
- 0 forks

Report repository

Languages

JavaScript	60.3%	HTML	27.9%	CSS	11.8%
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TS4NFDI - Terminology Service Suite (TSS)

TSS Demo

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Incubator Projects - What is an incubator for TS4NFDI?

- **a service/research project**
 - which want to **interact with at least one terminology service**
 - **want to have support** by this task
 - has one of the following goals:
 - Hosting of terminologies
 - Setup a terminology service
 - Adding terminology services to the API Gateway
 - Adding mappings to the mapping service
 - Integration of TSS widgets

Outlook


Incubator Projects - What is an incubator for TS4NFDI?

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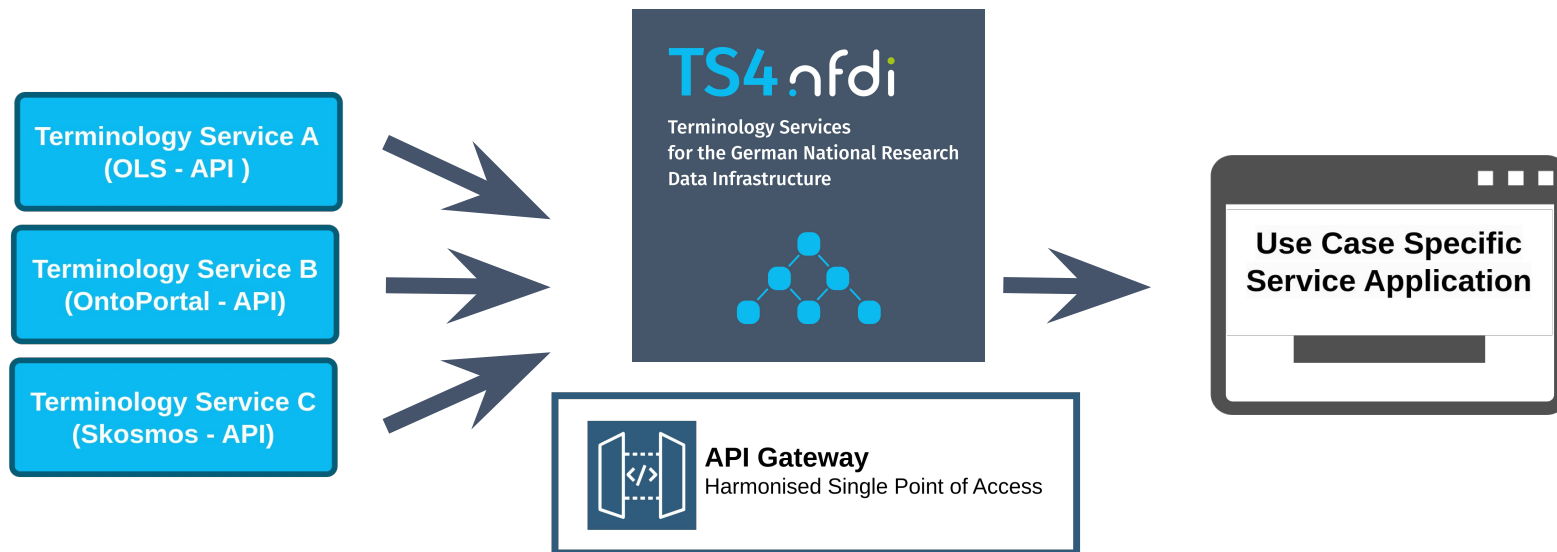
- has one of the following tasks

- Hosting a terminology service
- Setup a terminology service
- Adding terminology services to the API Gateway
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- Integration of TSS widgets

	2nd Incubator Cycle submit until 20.06.2025
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Outlook

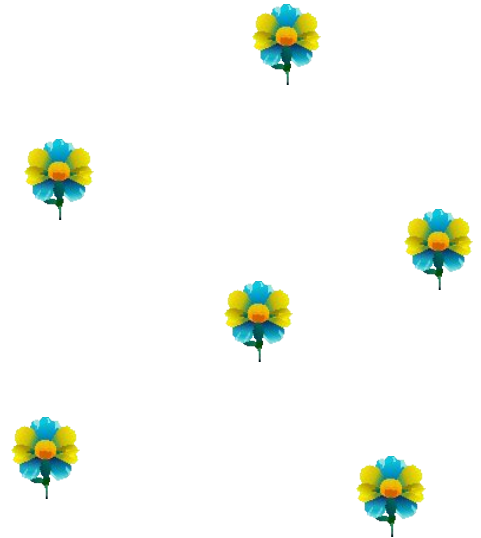
TS4NFDI API Gateway



- **one single API** for different Terminology Services

How could the Terminology Service Suite support other applications?

- D)** Tracking information
- E)** Providing (information about) standardised Identifier
- F)** Creating FAIR Digital Objects



Thank you!
Questions?



ts4nfdi@lists.nfdi.de



base4nfdi-servicestewards@lists.nfdi.de for general inquiries



terminology.services.base4nfdi.de

**Idea for an
own incubator project?**

Contact us:



ts4nfdi@lists.nfdi.de