

Workshop 2020-10-26 to 2020-10-27: DiversityDescriptions as Research Data Management System (RDMS) – 39. Diversity Workbench Workshop

Management von Forschungsdesign-Daten, Descriptor Trees und Messdaten

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Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Descriptor Project name

Query results 1-92

1 - Project name

2 - Physical unit type
3 - Physical unit status
4 - Physical unit ID
5 - Physical unit origin ID
6 - Physical unit preceding ID
7 - Physical unit external ID
8 - Unit operational agent name
9 - Unit operation workflow segment
10 - Storage container-internal positio
11 - Storage container ID
12 - Storage shelf number
13 - Storage rack ID
14 - Storage device name and ID
15 - Storage room name
16 - GBOL2TP12_environmental oper
17 - GBOL2TP12_host tree individual
18 - GBOL2TP12_host tree organ
19 - GBOL2TP12_environmental sampl
20 - GBOL2TP12_environmental sampl
21 - GBOL2TP12_nucleic acids extrac
22 - GBOL2TP12_nucleic acids extrac
23 - GBOL2TP12_PCR amplification
24 - GBOL2TP12_PCR amplicon purif
25 - GBOL2TP12_Index PCR amplific
26 - GBOL2TP12_Index PCR amplicor
27 - GBOL2TP12_microarray name
28 - GBOL2TP12_microarray manufac
29 - GBOL2TP12_microarray develop
30 - GBOL2TP12_microarray format
31 - GBOL2TP12_microarray design i
32 - GBOL2TP12_microarray design i
33 - GBOL2TP12_microarray design p
34 - GBOL2TP12_microarray design p
35 - GBOL2TP12_microarray design p
36 - GBOL2TP12_microarray device i
37 - Halotolerant-fungi_environmental
38 - Halotolerant-fungi_environmental
39 - Halotolerant-fungi_cultivation cult
40 - Halotolerant-fungi_cultivation cult
41 - Halotolerant-fungi_cultivation cult
42 - Halotolerant-fungi_cultivation cult
43 - Halotolerant-fungi_microbial_culti
44 - Hoehengradient_environmental o
45 - Hoehengradient_soil borehole nu
46 - Hoehengradient_soil horizon type v

order by: Sequence number ▾

Main attributes Categorical states Descriptor tree Modifier/Frequency Resource links

Abbrev.: Project name

Details: Name of project at UBT Mycology

Notes:

Natural language support

Wording:

before:

after:

Descriptor type

Categorical
 Quantitative
 Text
 Sequence

Exclusive
 Mandatory

Descriptor settings

Statistical measurement scale: Nominal
State collection model: OrSet

Repeatability: Standard
Availability: Standard

Measurement data

Prefix: Base:
Unit:
 Unit is prefix
 Values are integer

Minimum: -1,790000E+308
Maximum: 1,790000E+308

Molecular sequence data

Nucleotide sequence
 Protein sequence
 Enable ambiguity symbols
Symbol length: 1
Gap symbol:

Edit descriptors Assigned to more than one project

Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1 - 92

47 - Hoehengradient_environmental sample replicate number
48 - Hoehengradient_environmental sampling
49 - Hoehengradient_nucleic acids extraction
50 - Hoehengradient_nucleic acids extract purification
51 - Hoehengradient_PCR amplification
52 - Hoehengradient_PCR amplicon purification
53 - Hoehengradient_Index PCR amplification
54 - Hoehengradient_Index PCR amplicon purification
55 - LambweValley_environmental operation location
56 - LambweValley_soil borehole number
57 - LambweValley_soil horizon type
58 - LambweValley_environmental sample replicate number
59 - LambweValley_environmental sampling
60 - LambweValley_nucleic acids extraction
61 - LambweValley_nucleic acids extract purification
62 - LambweValley_PCR amplification
63 - LambweValley_PCR amplicon purification
64 - LambweValley_Index PCR amplification
65 - LambweValley_Index PCR amplicon purification
66 - Microplastic_environmental operation location
67 - Microplastic_soil sample number
68 - Microplastic_environmental sampling
69 - Microplastic_soil sample subsample type
70 - Microplastic_cultivation cryoculture origin
71 - Microplastic_cultivation culture generation
72 - Microplastic_cultivation culture medium type
73 - Microplastic_cultivation culture medium type variation
74 - Microplastic_cultivation culture replicate number
75 - Microplastic_microbial_cultivation
76 - Microplastic_nucleic acids extraction
77 - Microplastic_nucleic acids extract purification
78 - Microplastic_PCR amplification
79 - Microplastic_PCR amplicon purification
80 - Microplastic_Index PCR amplification
81 - Microplastic_Index PCR amplicon purification
82 - Waldeck_environmental operation location
83 - Waldeck_lichen thallus individual number
84 - Waldeck_lichen thallus fragment
85 - Waldeck_environmental sample replicate number
86 - Waldeck_environmental sampling
87 - Waldeck_nucleic acids extraction
88 - Waldeck_nucleic acids extract purification
89 - Waldeck_PCR amplification
90 - Waldeck_PCR amplicon purification
91 - Waldeck_Index PCR amplification
92 - Waldeck_Index PCR amplicon purification

order by: Sequence number

Descriptor

Project name

Descriptor: Project name No: 1 ID: 1059003

Main attributes Categorical states Descriptor tree Modifier/Frequency Resource links

Descriptor tree

- Project name
- Field workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Laboratory workflow segments
- MI - Method information
- Repository workflow segments
- OD - Operation design - Transaction - Storage
- GBOL2TP12 - Chip design
- Halotolerant fungi - Workflow design
- General
- Project name
- Field workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Laboratory workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Repository workflow segments
- OD - Operation design - Transaction - Storage
- Hoehengradient - Workflow design
- General
- Project name
- Field workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Laboratory workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Repository workflow segments
- OD - Operation design - Transaction - Storage
- Waldeck - Workflow design
- General
- Project name
- Field workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Laboratory workflow segments
- MI - Method information
- Repository workflow segments
- OD - Operation design - Transaction - Storage
- Project
- Descriptor tree
- Descriptor tree node
- Descriptor

Recommended statistical measure

- Lower range limit (human estimate)
- Upper range limit (human estimate)
- Central or typical value (human estimate)
- Lower range limit (legacy data stat. meth. unknown)
- Upper range limit (legacy data stat. meth. unknown)
- Central or typical value (legacy data stat. meth. unknown)
- Minimum value
- Maximum value
- Mean (= average)
- Harmonic mean
- Geometric mean
- Mode
- Median
- Interquartile mean (= average)
- Variance (sample df = n-1)

Recommended modifier

Recommended frequency

Edit descriptors Assigned to more than one project

Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1 - 92

47 - Hoehengradient_environmental sample replicate number
48 - Hoehengradient_environmental sampling
49 - Hoehengradient_nucleic acids extraction
50 - Hoehengradient_nucleic acids extract purification
51 - Hoehengradient_PCR amplification
52 - Hoehengradient_PCR amplicon purification
53 - Hoehengradient_Index PCR amplification
54 - Hoehengradient_Index PCR amplicon purification
55 - LambweValley_environmental operation location
56 - LambweValley_soil borehole number
57 - LambweValley_soil horizon type
58 - LambweValley_environmental sample replicate number
59 - LambweValley_environmental sampling
60 - LambweValley_nucleic acids extraction
61 - LambweValley_nucleic acids extract purification
62 - LambweValley_PCR amplification
63 - LambweValley_PCR amplicon purification
64 - LambweValley_Index PCR amplification
65 - LambweValley_Index PCR amplicon purification
66 - Microplastic_environmental operation location
67 - Microplastic_soil sample number
68 - Microplastic_environmental sampling
69 - Microplastic_soil sample subsample type
70 - Microplastic_cultivation cryoculture origin
71 - Microplastic_cultivation culture generation
72 - Microplastic_cultivation culture medium type
73 - Microplastic_cultivation culture medium type variation
74 - Microplastic_cultivation culture replicate number
75 - Microplastic_microbial_cultivation
76 - Microplastic_nucleic acids extraction
77 - Microplastic_nucleic acids extract purification
78 - Microplastic_PCR amplification
79 - Microplastic_PCR amplicon purification
80 - Microplastic_Index PCR amplification
81 - Microplastic_Index PCR amplicon purification
82 - Waldeck_environmental operation location
83 - Waldeck_lichen thallus individual number
84 - Waldeck_lichen thallus fragment
85 - Waldeck_environmental sample replicate number
86 - Waldeck_environmental sampling
87 - Waldeck_nucleic acids extraction
88 - Waldeck_nucleic acids extract purification
89 - Waldeck_PCR amplification
90 - Waldeck_PCR amplicon purification
91 - Waldeck_Index PCR amplification
92 - Waldeck_Index PCR amplicon purification

order by: Sequence number

Descriptor

Project name

Descriptor: Project name No: 1 ID: 1059003

Main attributes Categorical states Descriptor tree Modifier/Frequency Resource links

Descriptor tree

- Project name
- Field workflow segments
- OD - Operation design - Transformation - Measure
- MI - Method information
- Laboratory workflow segments
- MI - Method information
- Repository workflow segments
- OD - Operation design - Transaction - Storage
- GBOL2TP12 - Chip design
- Halotolerant fungi - Workflow design
- General
 - Project name
- Field workflow segments
 - OD - Operation design - Transformation - Measure
 - MI - Method information
- Hoehengradient
 - General
 - Project name
 - Field workflow segments
 - OD - Operation design - Transformation - Measure
 - MI - Method information
 - Laboratory workflow segments
 - MI - Method information
 - Repository workflow segments
 - OD - Operation design - Transaction - Storage
- Project

Recommended statistical measure

- Lower range limit (human estimate)
- Upper range limit (human estimate)
- Central or typical value (human estimate)
- Lower range limit (legacy data stat. meth. unknown)
- Upper range limit (legacy data stat. meth. unknown)
- Central or typical value (legacy data stat. meth. unknown)
- Minimum value
- Maximum value
- Mean (= average)
- Harmonic mean
- Geometric mean
- Mode
- Median
- Interquartile mean (= average)
- Variance (sample df = n-1)

Projektzu-
ordnung

Recommended modifier

Recommended frequency

Edit descriptors Assigned to more than one project

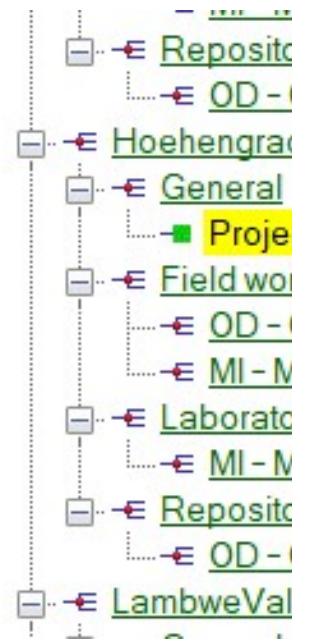
Studie ‚Hoehengradient‘

- Sampling Design hierarchy
 - Sites
 - 8 (Passau, Grafenau, and Bodenmais areas)
 - Plots
 - 144 (18×8)
 - Sampling holes per plot
 - 3
 - Horizons per sampling hole
 - 3
 - Replicates
 - 1 per soil horizon
 - Total number of soil samples
 - 1,296



Workflow Segment Design

42 - Halotolerant-tungi_cultivation culture medium type variation level 2
43 - Halotolerant-fungi microbial cultivation
44 - Hoehengradient_environmental operation location
45 - Hoehengradient_soil borehole number
46 - Hoehengradient_soil horizon type
47 - Hoehengradient_environmental sample replicate number
48 - Hoehengradient_environmental sampling
49 - Hoehengradient_nucleic acids extraction
50 - Hoehengradient_nucleic acids extract purification
51 - Hoehengradient_PCR amplification
52 - Hoehengradient_PCR amplicon purification
53 - Hoehengradient_Index PCR amplification
54 - Hoehengradient_Index PCR amplicon purification
55 - LambweValley_environmental operation location
56 - LambweValley_soil borehole number
57 - LambweValley_soil horizon type



Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1 - 92

Descriptor: Hoehengradient_environmental operation location No: 44 ID: 1058907

Main attributes Categorical states Descriptor tree Modifier/Frequency Resource links

No.	Categorical state	Abbreviation	Details	Wording
1	136001	136001.xxx	4581304; 5439412; Rießloch; ...	
2	136001a	136001a.xxx	4584539; 5440597; Rießloch; ...	
3	136001b	136001b.xxx	4581738; 5440468; Rießloch; ...	
4	136003	136003.xxx	4581687; 5439428; Rießloch; ...	
5	136003a	136001a.xxx	4580164; 5439874; Rießloch; ...	
6	136003b	136001b.xxx	4582332; 5439658; Rießloch; ...	
7	136004	136003.xxx	4581307; 5439239; Rießloch; ...	
8	136004a	136003a.xxx	4579549; 5441485; Rießloch; ...	
9	136004b	136003b.xxx	4580337; 5440450; Rießloch; ...	
10	136005	136004.xxx	4581485; 5439448; Rießloch; ...	
11	136005a	136004a.xxx	4582929; 5436636; Rießloch; ...	
12	136005b	136004b.xxx	4579952; 5439868; Rießloch; ...	
13	136006	136005.xxx	4581721; 5439251; Rießloch; ...	
14	136006a	136005a.xxx	4581926; 5439037; Rießloch; ...	

State resource links

http://www.google.com/maps/place/49.08660853,13.11162769

Resources

No.	Resource name	Ranking	Role	URL	Type	Variant
1	136001		unkno...	http://www.google.com/maps/plac...	mediu...	

URL: http://www.google.com/maps/place/49.08660853,13.11162769 Size: Width: Height: Duration: Behalten

Edit descriptors

Deskriptor für die Identität der Beprobungsfläche

Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1 - 92

Descriptor: Hoehengradient

Main attributes Categorical state

No.	Categorical state	Abbreviation	Details
1	HG_ES protocol transformation		Soil corer (Bohrer) 0-30 cm (E...)
2	HG_ES protocol measurement		Nokia Lumia 630
3	HG_ES protocol transaction		

State resource links

Resources

No.	Resource name	Ranking	Role
1	modco:unit physical tran...	sk:nar...	▼
2	modco:unit physical tran...	sk:nar...	▲
3	modco:unit physical tran...	sk:nar...	▼
4	modco:unit physical tran...	unkno...	▼
5	modco:unit physical tran...	unkno...	▼
6	Ehlert und Partner GbR	unkno...	▼

URL: https://www.mod-co.net/wiki/modco:unit_physical_transformation_p Type: application Variant: tiny sa...
Size: Width: Height: Duration: Behalten

Auswahl zwischen den Elementaroperationen

Details

Deskriptor für spezifische Operation

Daten-Resourcen

Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1 - 92

21 - GBOL2TP12_nucleic acids extraction
22 - GBOL2TP12_nucleic acids extract purification
23 - GBOL2TP12_PCR amplification
24 - GBOL2TP12_PCR amplicon purification
25 - GBOL2TP12_Index PCR amplification
26 - GBOL2TP12_Index PCR amplicon purification
27 - GBOL2TP12_microarray name
28 - GBOL2TP12_microarray manufacturer
29 - GBOL2TP12_microarray development generation
30 - GBOL2TP12_microarray format
31 - GBOL2TP12_microarray design identifier internal
32 - GBOL2TP12_microarray design identifier external
33 - GBOL2TP12_microarray design probe row value
34 - GBOL2TP12_microarray design probe column value
35 - GBOL2TP12_microarray design probe ID
36 - GBOL2TP12_microarray device identifier
37 - Halotolerant-fungi_environmental operation location
38 - Halotolerant-fungi_environmental sampling
39 - Halotolerant-fungi_soil borehole number
40 - Halotolerant-fungi_soil horizon type
41 - Halotolerant-fungi_soil replicate number
42 - Halotolerant-fungi_soil sampling
43 - Halotolerant-fungi_soil type
44 - Hoehengradient_nucleic acids extraction
45 - Hoehengradient_nucleic acids extract purification
46 - Hoehengradient_PCR amplification
47 - Hoehengradient_Index PCR amplification
48 - Hoehengradient_Index PCR amplicon purification
49 - Hoehengradient_nucleic acids extraction
50 - Hoehengradient_nucleic acids extract purification
51 - Hoehengradient_PCR amplification
52 - Hoehengradient_Index PCR amplicon purification
53 - Hoehengradient_Index PCR amplification
54 - Hoehengradient_Index PCR amplicon purification
55 - LambweValley_environmental operation location
56 - LambweValley_soil borehole number
57 - LambweValley_soil horizon type
58 - LambweValley_environmental sample replicate number
59 - LambweValley_environmental sampling
60 - LambweValley_nucleic acids extraction
61 - LambweValley_nucleic acids extract purification
62 - LambweValley_PCR amplification
63 - LambweValley_PCR amplicon purification
64 - LambweValley_Index PCR amplification
65 - LambweValley_Index PCR amplicon purification
66 - Microplastic_environmental operation location

order by: Sequence number

Art der Elementaroperation

Deskriptor zur DNA-Extraktion

Verbrauchsmittel, Geräte, Literatur

Protokoll

Main area

No: 49 ID: 1060449

Resource links

Resources

No.	Resource name	Ranking	Role
1	Dopheide, A., Xie, D., B...	unkno...	▼
2	Soil Ex Kit NucleoSpin®...	unkno...	▲
3	NucleoSpin® Soil (MAC...	unkno...	▼
4	Thermo Savant FastPre...	unkno...	▼

URL: <https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/2041-210X.13086>

Size: Width: Height: Duration:

Edit descriptors

Workflow Segment Design

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1 - 92

Descriptor: Hoehengradient_nucleic acids extract purification

Main attributes Categorical states Descriptor tree Modifier/Frequency Resource links

No.	Categorical state	Abbreviation	Details	Wording
1	HG_NAP protocol transformation			
2	HG_NAP protocol measurement		NA concentration [ng/ml]	
3	HG_NAP protocol transaction			

State resource links

URL	Type	Variant
https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/2041-210X.13086	application	tiny sa...

Resources

No.	Resource name	Ranking	Role
1	Dopheide, A., Xie, D., B...	unkno...	
2	NucleoSpin® Soil (MAC...	unkno...	
3	NucleoSpin® Soil (MAC...	unkno...	
4	Centrifuge 5417R/F45-3...	unkno...	

order by: Sequence number

Edit descriptors ▾

URL <https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/2041-210X.13086> Size Width Height Duration

Behalten

Workflow Segment Descriptions

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1-4177

32d6d4f3
32e0b385
32f4ba65
32f5eb6b
32fa89ad
3305f24f
33069961
330809a6
33142e69
331ca95e
333bf53a
334a7275
338317e8
33887b34
339a857e
33b7bd62
...

order by: Description

Query conditions

Description

- Title ~ []
- Details ~ []
- Project = UBTMYCoperationsdesc

Description resource

Title ~ []

Descriptor

Categorical = []

Quantitative = []

Text = []

Sequence = []

Data status

Scope

Taxon ~ []

Geography ~ []

Specimen ~ []

Reference ~ []

Description

Description: 33887b34

http://snsb.diversityworks.org/Descriptor/33887b34

Project: UBTMYCoperationsdesc

Language: en

ID: 1068533

Descriptor für Projektzuordnung

No.	Type	Descriptor name
1	categorical	Project name
2	categorical	Physical unit type
3	categorical	Physical unit status
4	text	Physical unit ID
5	text	Physical unit origin ID
6	text	Physical unit preceding ID
7	text	Physical unit external ID
8	categorical	Unit operational agent name
9	categorical	Unit operation workflow segment
10	text	Storage container-internal position
11	text	Storage container ID
12	categorical	Storage shelf number
13	text	Storage rack ID
14	categorical	Storage device name and ID
15	categorical	Storage room name
16	categorical	GBOL2TP12_environmental oper...
17	categorical	GBOL2TP12_host tree individual ...
18	categorical	GBOL2TP12_host tree organ
19	quantitative	GBOL2TP12_environmental sampli...
20	categorical	GBOL2TP12_environmental sampli...
21	categorical	GBOL2TP12_nucleic acids extrac...
22	categorical	GBOL2TP12_nucleic acids extrac...
23	categorical	GBOL2TP12_PCR amplification
24	categorical	GBOL2TP12_PCR amplicon purifi...
25	categorical	GBOL2TP12_Index PCR amplific...
26	categorical	GBOL2TP12_Index PCR amplic...

Categorical states

x	No.	State	Notes
<input type="checkbox"/>	1	GBOL2TP12	
<input type="checkbox"/>	2	HalotolerantFungi	
<input checked="" type="checkbox"/>	3	Hohengradient	
<input type="checkbox"/>	4	LambweValley	
<input type="checkbox"/>	5	Microplastic	
<input type="checkbox"/>	6	SootyMoulds	
<input type="checkbox"/>	7	Waldeck	

State collection model: OrSet

Status data

x	ID	Status	Notes
<input type="checkbox"/>	!	To be checked	
<input type="checkbox"/>	ø	Not to be recorded	
<input type="checkbox"/>	-	Not applicable	
<input type="checkbox"/>	?	Data unavailable	
<input type="checkbox"/>	#	Not interpretable	
<input type="checkbox"/>	§	Data withheld	
<input type="checkbox"/>	0	Missing data	

Descriptor tree: [] Restricted

Edit descriptions

Behalten

Workflow Segment Descriptions

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration Help

Query results 1-4177

32d6d4f3
32e0b385
32f4ba65
32f5ebef
32fa89ad
3305f24f
33069961
330809a6
33142e69
331ca95e
333bf53a
334a7275
338317e8
33887b34
339a857e
33b7bd62

order by: Description

Query conditions

Description

- Title ~
- Details ~
- Project = UBTMYCoperationsdesc

Description resource

Title ~

Descriptor

- Categorical =
- Quantitative =
- Text =
- Sequence =

Data status

Scope

- Taxon ~
- Geography ~
- Specimen ~
- Reference ~

Description tree:

Description: 33887b34

AID: [] ID: 1068533

Project: UBTMYCoperationsdesc Language: en

http://snsb.diversityworkbench.de/Descriptions/1068533

Main attributes Descriptor view Continuous view Resource links Sample data

No.	Type	Descriptor name
38	categorical	Halotolerant-fungi_environmental ...
39	categorical	Halotolerant-fungi_cultivation cult...
40	categorical	Halotolerant-fungi_cultivation cult...
41	categorical	Halotolerant-fungi_cultivation cult...
42	categorical	Halotolerant-fungi_cultivation cult...
43	categorical	Halotolerant-fungi_cultivation cult...
44	categorical	Halotolerant-fungi_cultivation cult...
45	quantitative	Halotolerant-fungi_cultivation cult...
46	categorical	Hoehengradient
47	quantitative	Hoehengradient_environmental s...
48	categorical	Hoehengradient_environmental s...
49	categorical	Hoehengradient_nucleic acids ex...
50	categorical	Hoehengradient_nucleic acids ex...
51	categorical	Hoehengradient_PCR amplificati...
52	categorical	Hoehengradient_PCR amplicon ...
53	categorical	Hoehengradient_Index PCR amp...
54	categorical	Hoehengradient_Index PCR amp...
55	categorical	LambweValley_environmental op...
56	quantitative	LambweValley_soil borehole nu...
57	categorical	LambweValley_soil horizon type
58	quantitative	LambweValley_environmental sa...
59	categorical	LambweValley_environmental sa...
60	categorical	LambweValley_nucleic acids extr...
61	categorical	LambweValley_nucleic acids extr...
62	categorical	LambweValley_PCR amplification
63	categorical	LambweValley_PCR amplicon p...

Categorical states

x	No.	State	Notes
<input checked="" type="checkbox"/>	1	GBOL2TP12	
<input type="checkbox"/>	2	HalotolerantFungi	
<input checked="" type="checkbox"/>	3	Hoehengradient	
<input type="checkbox"/>	4	LambweValley	

Descripteur für Umweltprobe

State collection model: OrSet

Status data

x	ID	Status	Notes
<input checked="" type="checkbox"/>	!	To be checked	
<input type="checkbox"/>	ø	Not to be recorded	
<input type="checkbox"/>	-	Not applicable	
<input type="checkbox"/>	?	Data unavailable	
<input type="checkbox"/>	#	Not interpretable	
<input type="checkbox"/>	§	Data withheld	
<input type="checkbox"/>	0	Missing data	

Descriptor tree: [] Restricted

Edit descriptions

Behalten

Workflow Segment Descriptions

93014b. 1. 3. 1

The diagram illustrates a workflow segment description process. It starts with a main table containing descriptor names and their types. A specific row (descriptor 44) is highlighted in blue. This row points to a 'Categorical states' dialog box, which lists various state numbers. One entry (93014b) is checked. From this dialog, a yellow arrow points to a 'Statistical measures' dialog box, where measure number 3 is selected. Another yellow arrow points from this dialog to a second 'Categorical states' dialog box, which lists three items: HG_plant litter, HG_organic litter, and HG_mineral litter. The third item is checked.

No.	Type	!	Descriptor name
39	categorical	x	Halotolerant-fungi_cultivation culture generation
40	categorical	x	Halotolerant-fungi_cultivation culture medium type
41	categorical	x	Halotolerant-fungi_cultivation culture medium type variation level 1
42	categorical	x	Halotolerant-fungi_cultivation culture medium type variation level 2
43	categorical		Halotolerant-fungi_microbial_cultivation
44	categorical	•	Hoehengradient_environmental operation location
45	quantitative	•	Hoehengradient_soil borehole number
46	categorical	•	Hoehengradient_soil horizon type
47	quantitative	•	Hoehengradient_environmental sample replicate number
48	categorical		No. Type ! Descriptor name
49	categorical		39 □ categorical x Halotolerant-fungi_cultivation culture generation
			40 □ categorical x Halotolerant-fungi_cultivation culture medium type
			41 □ categorical x Halotolerant-fungi_cultivation culture medium type variation level 1
			42 □ categorical x Halotolerant-fungi_cultivation culture medium type variation level 2
			43 □ categorical x Halotolerant-fungi_cultivation culture medium type variation level 1
			44 □ categorical • Halotolerant-fungi_cultivation culture generation
			45 □ quantitative • Halotolerant-fungi_cultivation culture medium type
			46 □ categorical • Halotolerant-fungi_cultivation culture medium type variation level 1
			47 □ quantitative • Halotolerant-fungi_cultivation culture medium type variation level 2
			48 □ categorical • Halotolerant-fungi_microbial_cultivation
			49 □ categorical • Hoehengradient_environmental operation location
			50 □ quantitative • Hoehengradient_soil borehole number
			51 □ categorical • Hoehengradient_soil horizon type
			52 □ quantitative • Hoehengradient_environmental sample replicate number
			53 □ categorical • Hoehengradient_environmental sampling
			54 □ categorical • Hoehengradient_nucleic acids extraction

Categorical states		
x	No.	State
<input type="checkbox"/>	66	93009b
<input type="checkbox"/>	67	93013
<input type="checkbox"/>	68	93013a
<input type="checkbox"/>	69	93013b
<input type="checkbox"/>	70	93014
<input type="checkbox"/>	71	93014a
<input checked="" type="checkbox"/>	72	93014b
<input type="checkbox"/>	73	94004

Statistical measures		
x	No.	Measure
<input checked="" type="checkbox"/>	3	[*] Central or typ... 3
<input type="checkbox"/>	9	Mean (= aver...

Categorical states		
x	No.	State
<input type="checkbox"/>	1	HG_plant litter...
<input type="checkbox"/>	2	HG_organic litter...
<input checked="" type="checkbox"/>	3	HG_mineral litter...

Statistical measures		
x	No.	Measure
<input checked="" type="checkbox"/>	3	Central or typ... 1
<input type="checkbox"/>	9	Mean (= aver...

Workflow Segment Descriptions

No.	Type	!	Descriptor name
39	categorical	x	Halotolerant-fungi_cultivation culture generation
40	categorical	x	Halotolerant-fungi_cultivation culture medium type
41	categorical	x	Halotolerant-fungi_cultivation culture medium type variation level 1
42	categorical	x	Halotolerant-fungi_cultivation culture medium type variation level 2
43	categorical		Halotolerant-fungi_microbial_cultivation
44	categorical	•	Hoehengradient_environmental operation location
45	quantitative	•	Hoehengradient_soil borehole number
46	categorical	•	Hoehengradient_soil horizon type
47	quantitative	•	Hoehengradient_environmental sample replicate number

Categorical states		
x	No.	State
<input type="checkbox"/>	66	93009b
<input type="checkbox"/>	67	93013
<input type="checkbox"/>	68	93013a
<input type="checkbox"/>	69	93013b
<input type="checkbox"/>	70	
<input type="checkbox"/>	71	
<input checked="" type="checkbox"/>	72	
<input type="checkbox"/>	73	

93014b. 1. 3. 1



93014b.3.3.1

33887b34-31f1-46cb-928b-e099d51cccd5c

No.	Type	!	Descriptor name
39	categorical	x	Halotolerant-fungi_cultivation culture generation
40	categorical	x	Halotolerant-fungi_cultivation culture medium type
41	categorical	x	Halotolerant-fungi_cultivation culture medium type variation level 1
42	categorical	x	Halotolerant-fungi_cultivation culture medium type variation level 2
43	categorical		Halotolerant-fungi_microbial_cultivation
44	categorical	•	Hoehengradient_environmental operation location
45	quantitative	•	Hoehengradient_soil borehole number
46	categorical	•	Hoehengradient_soil horizon type
47	quantitative	•	Hoehengradient_environmental sample replicate number
48	categorical	•	Hoehengradient_environmental sampling
49	categorical		Hoehengradient_nucleic acids extraction

Statistical measures		
x	No.	Measure
<input checked="" type="checkbox"/>	3	Central or typi... 1
<input type="checkbox"/>	9	Mean (= aver...

Workflow Segment Descriptions

Project UBTMYCoperationsdesc

Matches: 432

Show matches

30 s 30 s

Query parameter

Add description Add scope Add descriptor Remove |

Descriptor: Projectname

& Categorical states &

GBOL2TP12

HalotolerantFungi

Hoehengradient

LambweValley

Microplastic

SootyMoulds

Descriptor: Hoehengradient_soil horizon type

& Categorical states &

HG_plant litter (mid)

HG_organic layer (mid of 0 to 5 cm)

HG_mineral layer (mid of 5 to 20 cm)

Data status &

invert

invert

invert

invert

invert

invert

invert

To be checked

Not to be recorded

Not applicable

Data unavailable

Not interpretable

Data withheld

Missing data

Result list

all none swap

0027fa56

002a3b81

00b51a51

01189fb

01936956

019fabfb

01a5d11b

026f250d

02942fbc

039ec140

03c58821

071294ac

0820d224

086ddaa8a

08a387ef

0a8fe6d7

0ab96ec1

0abb633c

0ad145ed

0aedd672

0b0459a1

0c063adb

0c7636b6

0d1a0ea1

0d7a2a9e

0d81b21c

0df8e41a

0f9080d1

0fd77d96

1015b987

113cedb7

11d24e80

1211b952

126cb631

133304ee

1360e4c4

14eb5136

1550d1hf1

View in separate window

Workflow Segment Descriptions

DiversityDescriptions

Project: UBTMMyoperationsdesc (432)

Descriptor tree: Descriptor tree for UBTMMyoperationsdesc.Hoehengradient - Workflow design.Field workflow segment

From descriptor: 0 to descriptor: 99

Separate quantitative measures

 Display description table

Description: **0027fa56**

Descriptor:

	44	45	46	47	
	Description title	Hoehengradient - Workflow design Field workflow segments OD - Operation design - Transformation - Measurement Hoehengradient_environmental operation location	Hoehengradient - Workflow design Field workflow segments OD - Operation design - Transformation - Measurement Hoehengradient_soil borehole number	Hoehengradient - Workflow design Field workflow segments OD - Operation design - Transformation - Measurement Hoehengradient_soil horizon type	Hoehengradient - Workflow design Field workflow segments OD - Operation design - Transformation - Measurement Hoehengradient_environmental sample replicate number
32e0b385	140	3	2	*	
331ca95e	66	1	2	*	
33db1592	126	1	2	*	
34739fdd	48	1	2	*	
367d73e5	84	2	2	*	
3681e530	18	2	2	*	
375062cc	126	3	2	*	
38f4e3f0	100	3	2	*	
39d00512	9	1	2	*	
3aa8b207	100	1	2	*	
3ce743e7	38	3	2	*	
3e07ba8f	29	1	2	*	
3e660b29	83	3	2	*	
3e99b66c	142	3	2	*	

Cancel **OK**

Workflow Segment Measurements

DiversityDescriptions v. 4.2.9

Connection Edit Grid Query Data Administration

Description

Query results 1 - 74

066d1eed
075b9b00
0ce37918
0e7b609f
14bb1c54
1565b1a3
15dbedf3
16cb759a
1e28d61b
2275f2cd
26fc7f73
27c9dfa3
2d5dc71e
39c74d5b
3c149d81
3e2d025f

order by: Description

Query conditions

Description

Title ~
Details ~
Project = UBTMYCc

Description resource

Title ~

Descriptor

Categorical =
Quantitative =
Text =
Sequence =

Data status

= +

Scope

Taxon ~
Geography ~
Specimen ~
Reference ~

Descriptor tree: Restricted

Edit descriptions

Deskriptoransicht

Description: 1e28d61b

Main attributes Descriptor view Continuous view Resource links Sample data

No.	Type	Descriptor name
1	categorical	Project name
2	categorical	Unit elementary type
2	categorical	Unit physical type
4	text	Unit origin sample type
5	text	Unit physical ID
6	text	Unit digital URI
7	text	Unit taxon name
8	text	Unit taxon name ID
9	text	Unit taxon identification agent name
10	text	Unit taxon identification date
11	text	Unit physical generation date
12	categorical	Unit physical generation agent name
13	categorical	Unit measurement agent name
14	text	Unit measurement gene locus sequence data
15	text	Unit me... result
16	text	Unit me... result
17	text	Unit me... result
18	text	Unit me... result
19	text	Unit me... result
20	text	Unit me... measurement Unit
21	quantitative	Unit measurement [num]
22	text	Unit measurement [txt]

Messkampagne

Statistical measures

x	No.	Measure	Value	Notes
<input checked="" type="checkbox"/>	6	Central or typical value (legacy da... result		

Status data

x	ID	Status	Notes
<input checked="" type="checkbox"/>	!	To be checked	
<input type="checkbox"/>	o	Not to be recorded	
<input type="checkbox"/>	-	Not applicable	
<input type="checkbox"/>	?	Data unavailable	
<input type="checkbox"/>	#	Not interpretable	
<input type="checkbox"/>	\$	Data withheld	
<input type="checkbox"/>	0	Missing data	

Workflow Segment Measurements

Messreihen

Screenshot of a software interface for managing measurement data. The interface includes a navigation bar, a search bar, and various configuration panels. A yellow speech bubble highlights the word "Messreihen".

The main area displays a table of measurement data with the following columns:

Sampling unit ID	Unit physical generation agent name	Unit measurement agent name	Unit measurement gene locus sequence data	Unit measurement date	Unit measurement time	Unit measurement location coordinates	Unit measurement type	Unit measurement measurement unit	Unit measurement [nm]	Unit measurement [μd]
2989									0.589	
2990									11.329	
2991									30.041	
2992									72.378	
2993									136.6	
2994									279.2	
2995									326.3	
2996									403.1	
2997									477.8	
2998									546.6	

A yellow speech bubble highlights the word "Messwerte".

Reference

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Article Contents

FAIR digital objects in environmental and life sciences should comprise workflow operation design data and method information for repeatability of study setups and reproducibility of results

Janno Harjes, Anton Link, Tanja Weibulat, Dagmar Triebel, Gerhard Rambold

Database, Volume 2020, 2020, baaa059, <https://doi.org/10.1093/database/baaa059>

Published: 20 August 2020 **Article history** ▾

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