

Training offers by NanoCommons

Events

- ▶ What we had so far?
- ▶ What is planned?

Online available materials

- ▶ Where do I find them?



Martin Himly (PLUS)
Chair WG-A Education,
Training, Communication

www.nanosafetycluster.eu

NanoCommons Webinars & Hackathons, #nanocommons

This project has received funding from the European Union Horizon 2020 Programme (H2020) under grant agreement no. 731032.

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NanoCommons User Guidance Handbook

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NanoCommons
Nano-Knowledge Community

NanoMaterialCommons User Handbook

🔍 Search NanoMaterialCommons User Handbook

Home

Data management

FAIRification

Nanoinformatics

Training courses

NSC day 2021

Nanosafety training school 2021

Demonstration cases

About & partner projects

Complete series of training materials

In addition to structuring the material by topic, as was done in other sections, we list here courses and series of training materials that provide an overview of nanosafety and nanoinformatics useful for beginners or people looking to get an overview of the areas. Parts of these courses are then also linked in the sections that cover the specific topic.



www.nanocommons.eu

📅 NSC day 2021

This day acted as guidance for the entire NanoSafety community, including young researchers, to highlight how individual research projects fit as a puzzle piece into the wider picture. It shall be an orientation-giving and educational event depicting the overall strategy behind NanoSafe(ty). →

📅 Nanosafety training school 2021

The School features keynote speeches a variety of hands-on sessions aimed to transfer state-of-the-art knowledge on a variety of topics from key experts to the new generation of nano-environmental, health and safety, and biomedicine professionals, using interprofessional education. →

Powered by NanoCommons and Seven Past Nine and based on Jekyll and Just the Docs.

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NanoSafety
Cluster



Events



NanoCommons
Nano-Knowledge Community

EU Nanosafety Cluster Education Day @ NanoSAFE 2020 Digital Conference

Webinar, Training, Workshop (organized by NanoCommons)
16 Nov 2020

The University of Birmingham (UoB)
Edelweiss Connect GmbH (EwC)
United Kingdom Research and Innovation (UKRI)
National Technical University of Athens (NTUA)
LEITAT - ACONDICIONAMIENTO TARRASENSE ASSOCIACION (LEITAT)
Universitat Salzburg / Paris Lodron University of Salzburg (PLUS)
NovaMechanics Ltd (NovaM)
Universiteit Maastricht (UM)

2020 U.S.-EU NanoEHS COR Workshop: Bridging Insights and Perspectives

Conference, Workshop
16 - 17 Sep 2020

The University of Birmingham (UoB)
Edelweiss Connect GmbH (EwC)
National University of Ireland Dublin - University College Dublin (NUID-UCD)
Universitat Salzburg / Paris Lodron University of Salzburg (PLUS)
Universiteit Maastricht (UM)

Online Electronic Lab Notebook basics - Hackathon

Webinar, Hackathon, Training, Workshop (organized by NanoCommons)
14 Jul 2020

The University of Birmingham (UoB)
United Kingdom Research and Innovation (UKRI)
BioNanoNet (BIONANONET)
Universitat Salzburg / Paris Lodron University of Salzburg (PLUS)

SmartNanoTox International Online Conference

24 - 24 Jun 2020 / Online

The University of Birmingham (UoB)
BioNanoNet (BIONANONET)

Online Jqpot Hackathon - Take your research from the bench to the

The University of Birmingham (UoB)

December 10, 2020

Presentation Open Access

Edit

New version

EU NanoSafety Cluster Education Day @ NanoSafe 2020

Dr Martin Himly

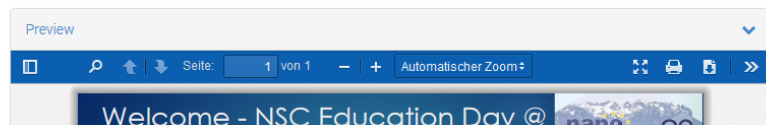
The EU NanoSafety Cluster WG-A on Education, Training, and Communication organized this Education Day on Nov 16 as satellite event of the NanoSafe Digital Congress 2020. This day acted as guidance for the entire NanoSafety community, including young researchers, to highlight how individual research projects fit as a puzzle piece into the wider picture. It was an orientation-giving and educational event depicting the overall strategy behind NanoSafe(ty).

Means to achieve this included:

- to offer a **WG-overarching education/communication/discussion** event involving the audience *via* interactive sessions;
- to layout ways to **go beyond** with anything the nanosafety community have learned/developed to serve the emerging topics of Horizon Europe (emerging contaminants incl. microplastics, nanomedicine, safety assessment of novel/innovative/advanced materials for tomorrow along their entire life cycle);
- to foster participation in creating better sustainable materials (than e.g. nanosilver in socks), technologies, medical approaches, etc.
- to exhibit the perspectives of the NSC Working Groups and the different currently ongoing projects;
- to be **as interactive as possible** using **hands-on** activities, e.g., by showing **how-to** operate e-tools, upload/retrieve data to/from repositories & perform models;
- to facilitate vivid contribution to discussions using survey tools such as Mentimeter, WooClap, VoxVote, etc.
- to offer different perspectives in **pro/contra discussions**, e.g., by defining **challenger - defender roles taken by experts on specific topics** or evtl. by dividing attendees into zoom breakout rooms
- to show application of emerging NRG frameworks or SbD tools;
- to **request feedback** to user interfaces and enable stakeholder involvement

We herewith share and document the educational materials for later use by the scientific community.

Martin Himly, Chair of the EU NSC Working Group A with gratitude to all presenters for their contributions!



- ### Communities
- EU NanoSafety Cluster [Remove](#)
 - H2020 Infrastructure Project NanoCommons [Remove](#)
 - H2020 NMBP-15 Project SbD4Nano [Remove](#)
 - H2020 Project SABYDOMA [Remove](#)
 - Horizon2020 GRACIOUS [Remove](#)
 - Nano Risk Governance [Remove](#)
 - NanoSolveIT H2020 [Remove](#)
 - Nanoinformatics Project [Remove](#)

35

views

60

downloads

[See more details...](#)

Indexed in

Publication date:

December 10, 2020

DOI:



NanoCommons
Nano-Knowledge Community

... the NC & NSC channels @ YouTube



NanoCommons
Nano-Knowledge Community

The screenshot shows the YouTube channel page for NanoSafety Cluster. At the top, the search bar contains 'nanosafetycluster'. The channel banner features the 'NanoSafety Cluster' logo and a stylized blue figure. Below the banner, the channel name 'NanoSafety Cluster' is displayed with '28 Abonnenten' and a red 'ABONNIEREN' button. Navigation tabs include 'ÜBERSICHT', 'VIDEOS', 'PLAYLISTS', 'KANÄLE', and 'KANALINFO'. The 'Uploads' section is active, showing a list of six videos:

Video Title	Duration	Views	Time Ago
NSC Training Day: (Rm B 3) Stakeholder engagement...	2:13:34	17 Aufrufe	vor 1 Monat
NanoSafety Cluster General Assembly, 16th November...	56:08	13 Aufrufe	vor 1 Monat
NSC Education Day: Session 6 - Elements of Sbd for...	1:08:38	39 Aufrufe	vor 1 Monat
NSC Education Day: Session 5 - Features of nanoRGFs in...	1:07:01	15 Aufrufe	vor 1 Monat
nanoSAFE20 - Introduction to the NanoSafety Cluster...	6:12	11 Aufrufe	vor 1 Monat
NSC Education Day: Session 1 - New developments in...	57:15	15 Aufrufe	vor 1 Monat





Event type

Workshops and courses 12

Meetings and conferences 3

Online

Only show online events

Country

Greece 1

Portugal 1

Organizer

Martin Himly, PLUS, Chair o... 6

www.nanocommons.eu 5

NanoCommons 2

Martin Himly, PLUS, Chair o... 1

City

Athens 1

Braga 1

Sponsor

NanoCommons 5

EU H2020 4

NanoSolveIT 3

EU H2020 NanoCommons 2

Austrian Science Fund grant... 1

NanoRigo 1

Nanocommons 1

RiskGone 1

https://nanorigo.eu/ 1

Target audience

Content provider: **NanoCommons**

Grid

Map

Earliest

Ontological Annotation of Datasets: "1st NanoCommons Hackathon"

9 October 2018

Athens, Greece



EU Nanosafety Cluster Training Day @ NanoSAFE 2020 Digital Conference

23 November 2020



Online MIE Prediction Tool Webinar

18 May 2021



Interactive Workshop: If you want to go far go together - Collaborative research supported by NanoCommons transnational access

9 November 2021



The NanoCommons Knowledge Base: how to find all data for one nanomaterial across multiple data sources

2 December 2021



Annotating Your Experimental Data workshop

28 April 2020



EU Nanosafety Cluster Education Day @ NanoSAFE 2020 Digital Conference

16 November 2020



Online QSAR Modelling Hackathon by Easy Access to Jaqpot

13 April 2021



56th Eurotox Conference - Personalized nano-immunotoxicology for the workplace

27 September 2021



Assessing ethical impacts of nanomaterials in dentistry

18 November 2021



Online Jaqpot Hackathon

3 June 2020



Getting into using ELNs for experimental and computational workflows

14 July 2020



Online SPARQL Access to WikiPathways and AOP-Wiki Webinar

23 March 2021



Risk Governance Session at the 10th Nanosafety Training School

24 June 2021



Total NanoSafe Hybrid Conference - From Molecules to Public Health

11 - 12 November 2021

Braga, Portugal

Nanosafety and the semantic web: from natural language to computational processing

8 - 9 December 2021



Nanosafety Training School: From Basic Science To Risk Governance

Event Date: 21st June 2021 - 25th June 2021
Online



Nanosafety Training School: From Basic Science To Risk Governance

Interprofessional Education Training School

Organisers



NANO RIGO



PATROLS
Advanced Tools for NanoSafety Testing



SIGN UP FOR OUR
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SEND

TOPICS:

- Hazard to Human Health & Environment
- Fate & Exposure Assessment
- Nanomedicine: from the lab to the market
- Modelling
- Grouping & Read Across Approaches
- **Risk Governance Session**



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Nano-Knowledge Community

The NanoCommons Knowledge Base



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Nano-Knowledge Community



BioXM™ Knowledge Portal

Username:

Password:

Log in



NanoCommons

Nano-Knowledge Community

You don't have an account yet? Please [register here](#).

[Forgot password?](#)

Contact Biomax if you need help support@biomax.com

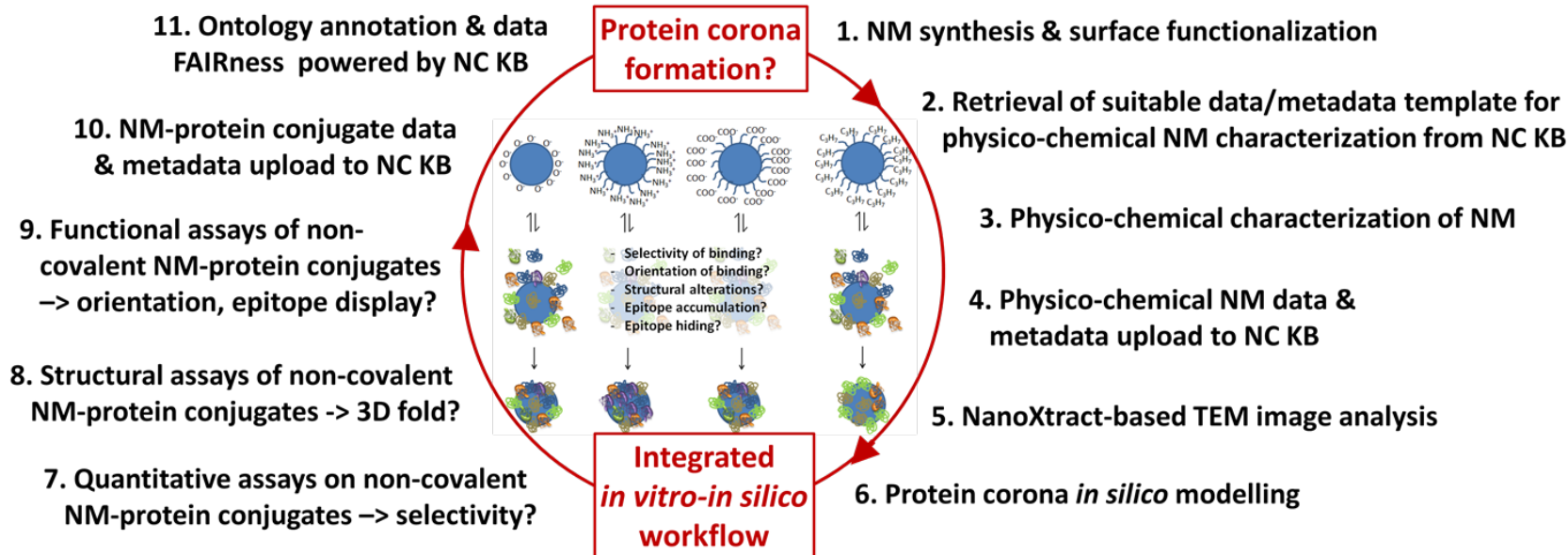
Copyright © 2020 by [Biomax Informatics AG](#). All rights reserved.

Supporting experimental-2-informatics workflows



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The NanoCommons Knowledge Base (NC KB) integrates reliable experimental in vitro data on nanomaterials (NMs), ontology-annotated & metadata-supplemented, with in silico prediction tools



The NanoCommons Knowledge Base



NanoCommons
Nano-Knowledge Community

YouTube AT

Suchen

BiOM - Redirect:Characterisation

Object: NP01155_pH7

Files

Protocol file	NP01155.NTA.metadata.xlsx	🗑️
	NP01155.DLS.metadata.xlsx	🗑️
	NP01155.TEM.metadata.xlsx	🗑️
	NP01155.ZEP.metadata.xlsx	🗑️
	Add more values	

Raw data

	NP01155.NTA.rawdata.xlsx	🗑️
	Add more values	

Software

Software version

HM Type

Comp. Branches

peloton ratio

X dimension sigma

Y dimension sigma

Thresholding Method

Threshold Value

Distance Merge Threshold

Gauss Size

Size Merge Threshold

Minimum Segment Area (pixels)

Maximum Segment Area (pixels)

Automatically remove outliers

.TEM (Experiment data entry for TEM in NP01155_pH7)

num	50.8
text	

TEM.SD (Experiment data entry for TEM.SD in NP01155_pH7)

38:44 / 1:32:04

Nanosafety Training School 2021 Session 8 Risk Governance

42 Aufrufe · 02.10.2021

👍 0 💬 0 ➦ TEILEN ➦ SPEICHERN ...



NanoSafety Cluster
56 Abonnenten

ABONNIEREN

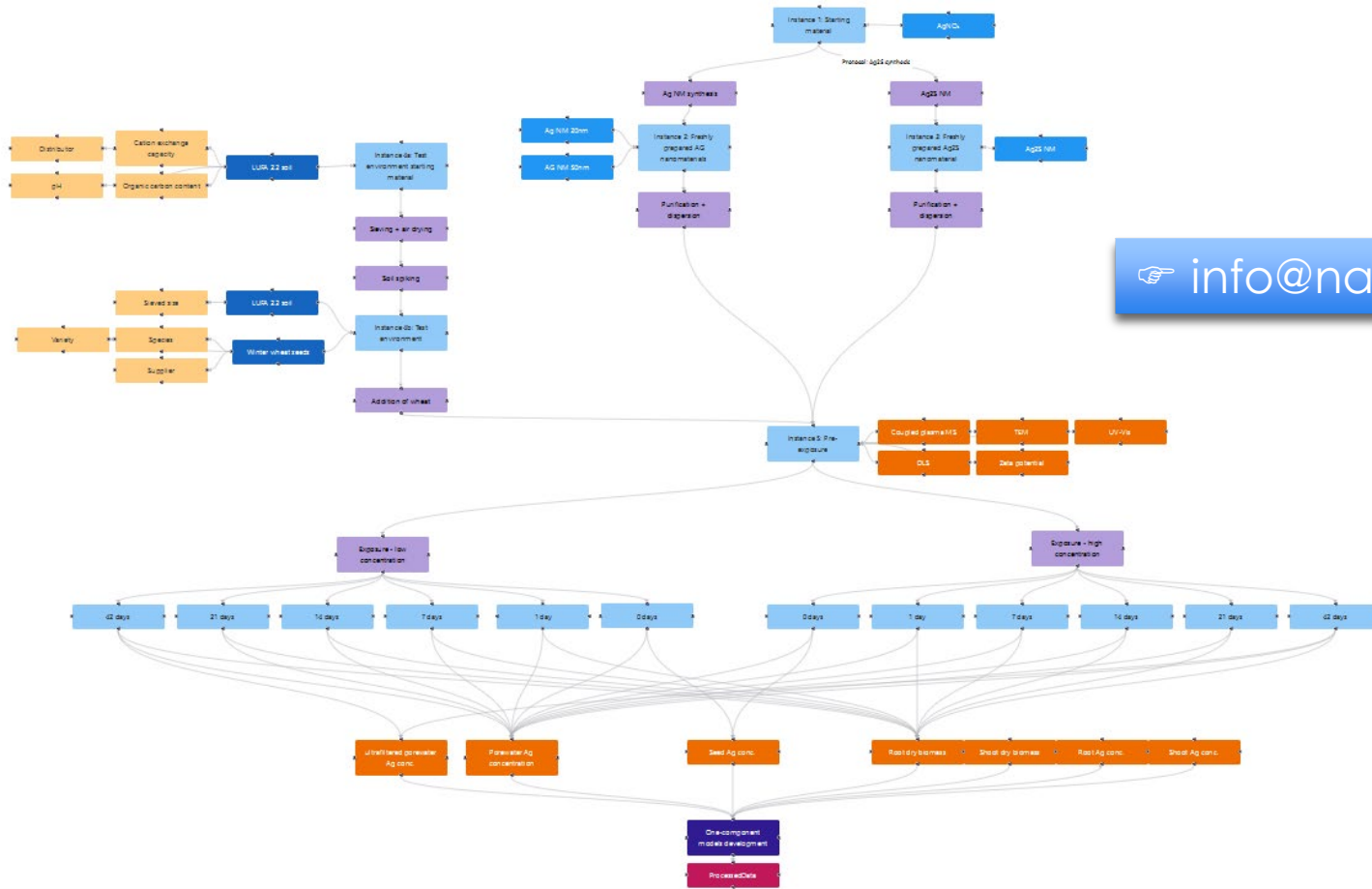
This year the Venice Nanosafety Training School 2021 celebrated its 10th anniversary in a one-of-a-kind, large-scale event organised by the EC funded H2020 projects: Biorima, Gov4Nano, Gracious, NanoInformaTIX, NANORIGO, PATROLS, and RiskGONE.



Friday trainings on instance mapping



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info@nanocommons.eu



Upcoming training events – Nov 18, 15-17 h CET



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Nano-Knowledge Community

The Ethics Impact Assessment Tool showcasing nano in dentistry


YouTube

Suchen

have your say and join the Stakeholder Community For subscribing press here 1:07:39

Nano-Ethics – Risk Governance Framework

<http://enaloscloud.novamechanics.com/riskgone/thresholdanalysis>
And <http://enaloscloud.novamechanics.com/riskgone/riskbenefit/>




Demonstrating the EIA screening tool on a case study of nanovaccines in fish farming (Myhr & Myskja, 2011): <https://link.springer.com/article/10.1007/s11569-011-0112-4>

Issue:	Health	Privacy	Liberties	Equality	Common good	Environment	Sustainability	Military dual use	Misuse
Risk	Yes	No	No	No	No	Yes	Yes	No	No
Severity	2	0	0	0	0	3	3	0	0

Three ethical risks are identified, including two medium. This results in a **medium scale EIA**.

Issue:	Health	Privacy	Liberties	Equality	Common good	Environment	Sustainability	Military dual use	Misuse
Benefit	Yes	No	No	No	No	No	Yes	No	No
Strength	3	0	0	0	0	0	3	0	0

 This project has received funding from the European Union's Horizon 2020 programme: grant agreement 814425.

Ineke MALSCH
Director, Malsch TechnoValuation
NanoSafe 2020 - Online, 16-23 11 2020

Ineke Malsch

AV POD

CHAT


Antreas Afantitis
The Ethical tool : enaloscloud.novamechanics.com/riskgone/thresholdanalysis The risk-benefit tool : enaloscloud.novamechanics.com/riskgone/riskbenefit/

Stella
Flemming, the survey was run in the platform so we cannot show it now

Nanosafety Cluster
Ineke requests feedback from the tools: malschtechnovaluation@xs4all.nl

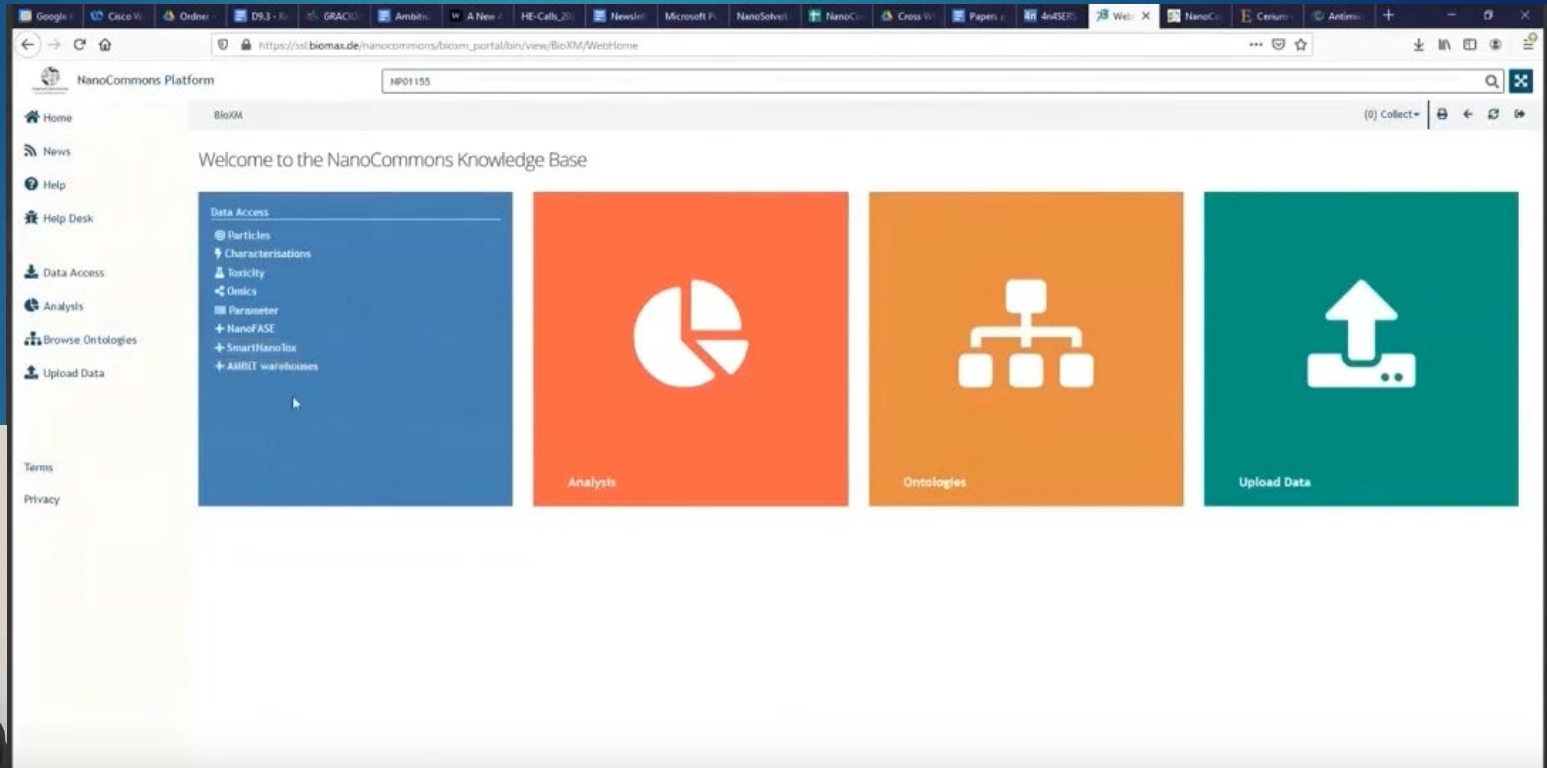
Claire Mays
Are these adapted from typical tools used in many areas, or an original approach authored by RiskGone?

1:40:08 / 3:43:45



Upcoming training events – Dec 2, 15-17 h CET

"NC KB: how to find all data for one nanomaterial across multiple data sources"



The screenshot shows the NanoCommons Platform web interface. The browser address bar displays https://ssl.biomax.de/nanocommons/biom_portal/bin/view/BioXM/WebHome. The page title is "NanoCommons Platform" and the search bar contains "NP01155". The main content area is titled "Welcome to the NanoCommons Knowledge Base" and features four large colored tiles: "Data Access" (blue), "Analysis" (orange), "Ontologies" (orange), and "Upload Data" (teal). The "Data Access" tile is expanded to show a list of categories: Particles, Characterisations, Toxicity, Omics, Parameter, NanoFASE, SmartNanoTox, and AMBIT wafersizes. A left sidebar contains navigation links: Home, News, Help, Help Desk, Data Access, Analysis, Browse Ontologies, Upload Data, Terms, and Privacy.



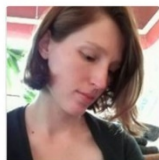
Upcoming training events – Dec 8&9, 13-17 h CET



NanoCommons
Nano-Knowledge Community

Nanosafety and the semantic web: from natural language to computational processing

8th and 9th of December 13.00-17.00h



Day 1 - Wednesday 8th of December 2021

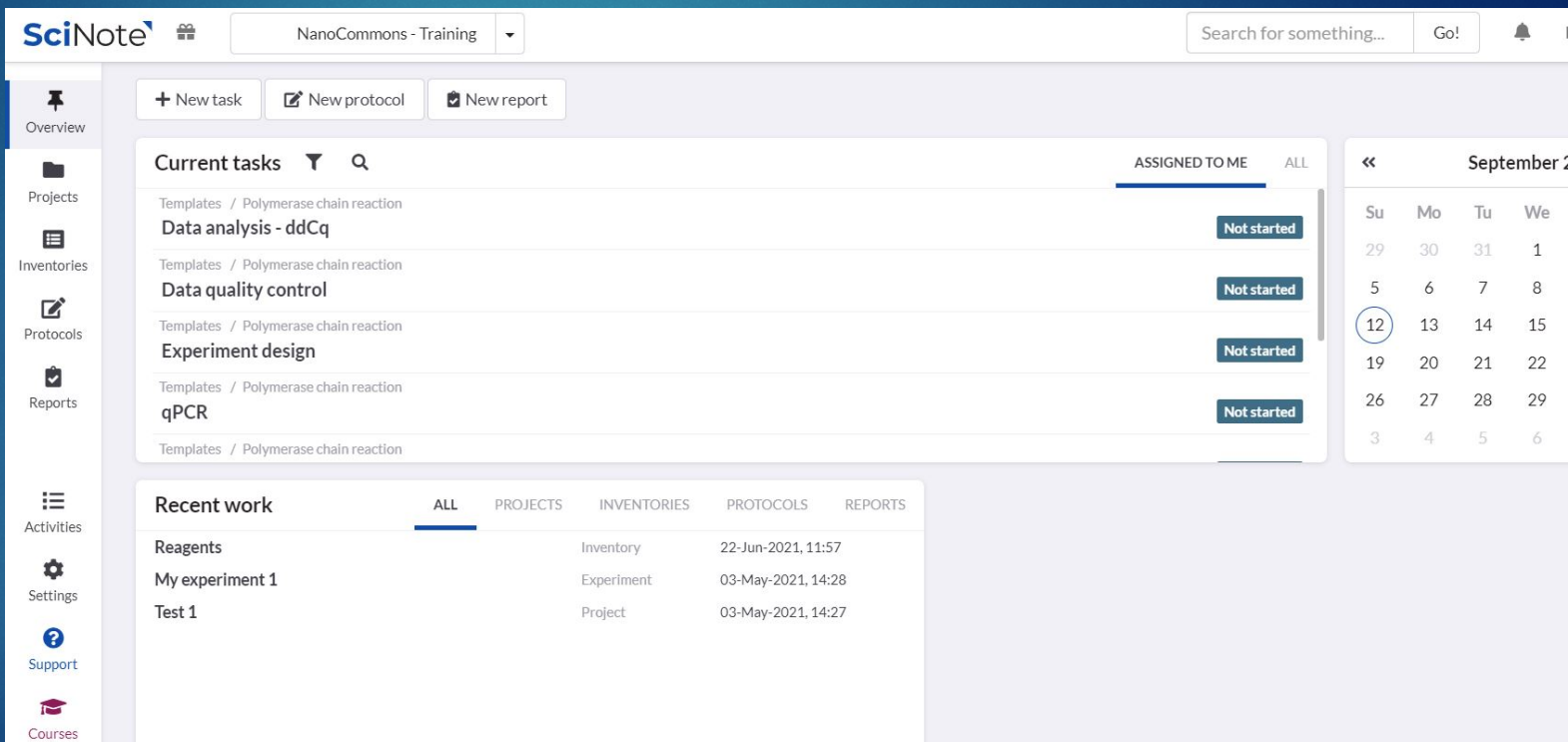
13.00 - 13.15	Welcome
RDF and SPARQL	
13.15 - 13.45	Introduction to RDF and SPARQL - Lecture (Denise Stenter)
13.45 - 14.15	Gene variants in Wikidata - Hands on session
14.15 - 14.45	Drug Targets in Wikidata - Hands on session
14.45 - 15.15	Break
15.15 - 16.00	Overview of our SPARQL endpoints - Lecture (Marvin Martens) <ul style="list-style-type: none">WikiPathwaysChEMBLAOP-Wiki / AOP-DBNanosafetyLandscape
16.00 - 16.45	Querying your SPARQL endpoint of choice - Hands on session
16.45 - 17.00	Closing remarks

Day 2 - Thursday 9th of December 2021

13.00 - 13.15	Welcome and recap Day 1
Ontologies	
13.15 - 13.45	Introduction to ontologies - Lecture (Egon Willighagen)
13.45 - 14.10	Using the eNanoMapper ontology - Hands on session
14.10 - 14.30	Extending the eNanoMapper ontology - Hands on session
14.30 - 14.45	Entering and analysing nano safety data - Hands on session
14.45 - 15.15	Break
15.15 - 15.45	SbD4Nano landscape - Lecture (Jeaphianne van Rijn)
15.45 - 16.15	Querying the SbD4Nano SPARQL endpoint - Hands on session
16.15 - 16.45	Q&A session
16.45 - 17.00	Closing remarks

Upcoming training events – Jan 13, 15-17 h CET

“Electronic Lab Notebooks - Demo of NanoCommons-powered Features”



The screenshot displays the SciNote web interface. At the top, there is a search bar and a navigation menu. The main content area is divided into several sections:

- Current tasks:** A list of tasks with a 'Not started' status button for each. The tasks are:
 - Templates / Polymerase chain reaction: **Data analysis - ddCq** (Not started)
 - Templates / Polymerase chain reaction: **Data quality control** (Not started)
 - Templates / Polymerase chain reaction: **Experiment design** (Not started)
 - Templates / Polymerase chain reaction: **qPCR** (Not started)
 - Templates / Polymerase chain reaction: (No title visible)
- Recent work:** A table showing recent activities across different categories.

	ALL	PROJECTS	INVENTORIES	PROTOCOLS	REPORTS
Reagents			Inventory	22-Jun-2021, 11:57	
My experiment 1			Experiment	03-May-2021, 14:28	
Test 1		Project		03-May-2021, 14:27	

On the right side, there is a calendar for September 2021, with the 12th highlighted.

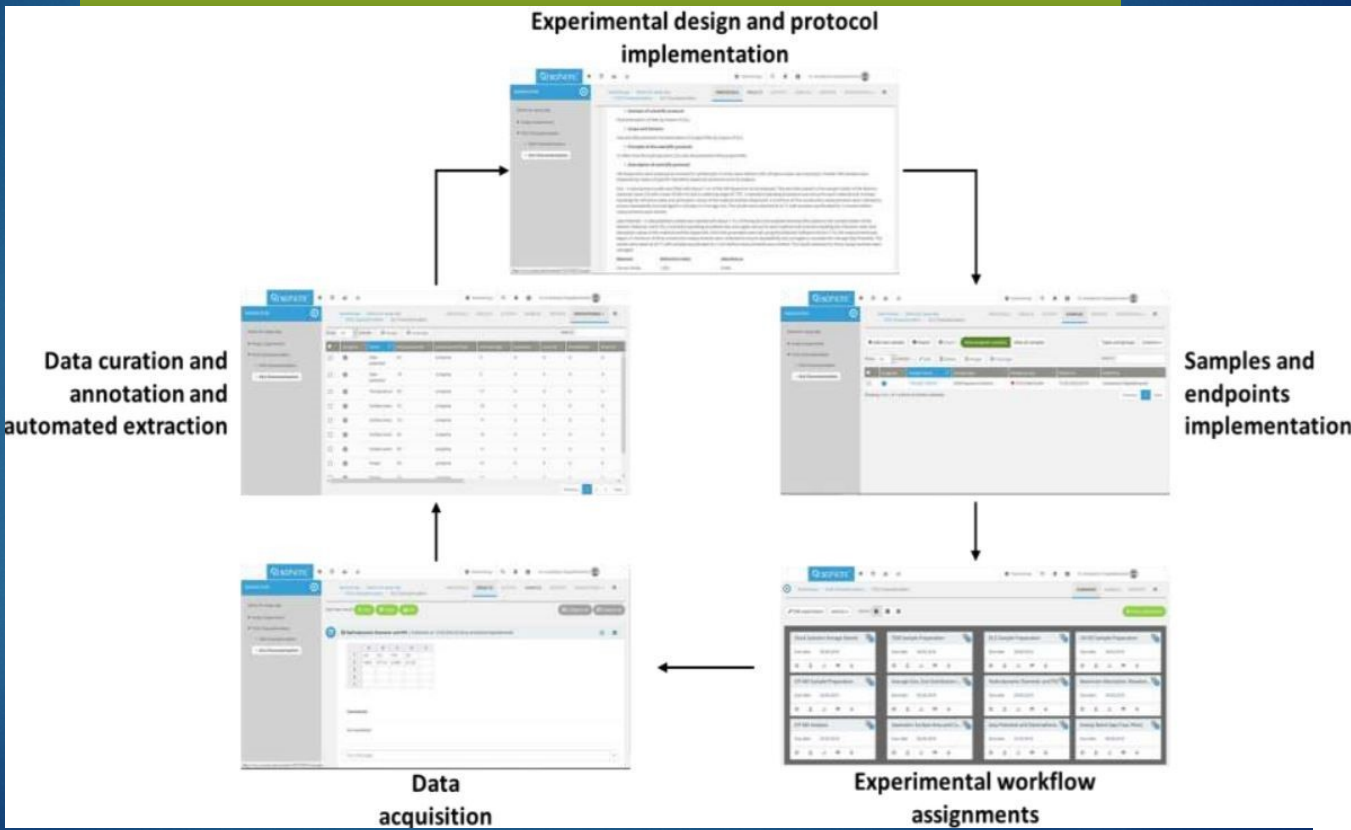


Upcoming training events – Jan 27, 15-17 h CET

“Electronic Lab Notebooks – Getting Your Hands on”



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Useful links:

User Guidance Handbook @ www.nanocommons.eu

- ▶ <https://www.nanocommons.eu/e-infrastructure/user-guidance-handbook/>

Training events and materials @ NanoCommons Infrastructure

- ▶ <https://infrastructure.nanocommons.eu/events/>

☞ NSC Education Day Session 1

☞ NanoSafety Training School

NanoCommons @ ELIXIR TeSS

- ▶ https://tess.elixir-europe.org/content_providers/nanocommons#events

NanoCommons community @ Zenodo

- ▶ <https://zenodo.org/communities/nanocommons>

NanoCommons Channel @ YouTube

- ▶ <https://www.youtube.com/channel/UCuawpRvXNpglwyeltfTctw>

mailing list of WG-A Education, Training, Communication

- ▶ www.nanosafetycluster.eu



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Thank you for joining our Workshop!

Upcoming training events:



www.nanocommons.eu



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- ▶ Thu, 18.11. 15-17 h CET, “Ethics Impact Assessment Tool showcasing nano in dentistry” by Ineke Malsh
- ▶ Thu, 2.12. 15-17 h CET, "NC KB: how to find all data for one nanomaterial across multiple data sources" by Dieter Maier
- ▶ Wed+Thu, 8+9.12. 13-17 h CET, “Nanosafety and the semantic web: from natural language to computational processing”, Workshop by Egon Willighagen’s team at UM, BiGCaT group
- ▶ Thu, 13.1. 15-17 h CET, “Electronic Lab Notebooks - Demo of NanoCommons-powered Features” by Tassos Papadiamantis
- ▶ Thu, 27.1. 15-17 h CET, “Electronic Lab Notebooks – Getting Your Hands on” by Tassos Papadiamantis