

Cheminformatics for Natural Products & Derivatization — Hands-on

Explore how cheminformatics can be applied to natural products and their semi-synthetic analogs. You will work with natural product style datasets, annotate structures and scaffolds, and examine simple derivatization and analog design concepts in silico to support discovery and property optimization, without performing laboratory synthesis guidance.

Cheminformatics for Natural Products & Derivatization

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Session 1

Fee: Rs 8800 [Apply Now](#)

Natural Products Space & Data Foundations

Natural products in discovery (conceptual overview)

[structural diversity and complexity](#) [privileged motifs and scaffolds](#) [semi synthetic analogs idea](#)

Data sources and formats for natural products (high level)

[library and database style collections](#) [structure plus basic metadata](#) [curation and consolidation ideas](#)

Simple views of natural products chemical space

property distributions (conceptual) **NP like vs synthetic like regions** **series and families of interest**

Session 2

Fee: Rs 11800 Apply Now

Structures, Scaffolds & Annotation for Naturals

Handling complex natural product structures (idea level)

rings, stereocenters and macrocycles **basic representation concerns** **consistency checks conceptually**

Scaffold and fragment views for natural products

core vs decoration thinking **motif annotation (informal)** **families and clusters**

Simple annotation of origin and context (non lab)

source type fields (conceptual) **target or pathway tags (overview)** **linking to reference metadata**

Session 3

Fee: Rs 14800 Apply Now

Analog Design, Derivatization & Profiling

Analog and derivatization thinking (non procedural)

site of modification ideas **decoration vs core changes** **simple chemotype exploration**

In silico property and similarity profiling of NP analogs

basic descriptors and property grids **similarity to parent and series** **distribution views (conceptual)**

Communicating NP analog and derivatization options (high level)

maps of analog sets | simple prioritization tables | non prescriptive suggestion notes

Session 4

Fee: Rs 18800 | Apply Now

Mini Capstone: Natural Product Series Pack

Assemble and annotate a small natural product style series

Theory + Practical

Create scaffold, analog and property overview views (in silico only)

scaffold and decoration map | property distribution plots | simple similarity panels

Deliverables: natural product series informatics summary pack

curated dataset snapshot | plots and scaffold diagrams | PDF/HTML narrative overview