

## Lipid Annotation, Nomenclature & Database Search (LIPID MAPS) — Hands-on

Make your lipidomics results unambiguous and publication ready. This module focuses on lipid nomenclature standards, ID systems, and practical use of LIPID MAPS and related libraries so that you can annotate LC-MS lipid features consistently, manage isomer ambiguity, and export clean tables for manuscripts and downstream analysis.

### Lipid Annotation, Nomenclature & Database Search (LIPID MAPS)

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#### Session 1

**Fee: Rs 8800** [Apply Now](#)

#### Lipid Nomenclature & Reporting Standards

Lipid naming basics and why consistent nomenclature matters

[class / subclass names](#) [total carbon:double bond notation](#) [species vs molecular species labels](#)

Community guidelines and reporting recommendations (concepts)

[minimum information style ideas](#) [annotation levels](#)



**and confidence** **handling ambiguous assignments**

Translating instrument output into human readable lipid names

**vendor software naming quirks** **simplifying but not overclaiming** **consistent naming across projects**

## **Session 2**

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### **LIPID MAPS & Lipid Databases Overview**

LIPID MAPS classification system and IDs (concepts)

**main categories and subclasses** **LMSD / LM IDs idea**  
**linking IDs to names and structures**

Other reference libraries and vendor databases (overview)

**in house spectral libraries concept** **public MS/MS collections (high level)** **matching strategy thinking**

Searching by exact mass, formula or name (conceptual workflows)

**tolerance and adduct considerations** **filtering by class and organism** **exporting hit lists for annotation**

## **Session 3**

**Fee: Rs 14800** [Apply Now](#)

### **Practical Lipid Annotation Workflows**

From feature list to candidate lipids using library matching (concepts)

**accurate mass and RT windows** **MS/MS pattern quality ideas** **adduct and isotope checks**

Managing isomer and isobaric ambiguity in annotations

**using generic vs detailed names** **flags and notes for**



**uncertainty** **aligning with study goals**

Building a curated lipid annotation table for analysis

**columns: name, ID, class, formula** **confidence level**  
**and evidence tags** **versioning and traceability**  
**concepts**

#### **Session 4**

**Fee: Rs 18800** Apply Now

### Mini Capstone: Lipid Annotation & Reporting Package

Assembling a clean lipid annotation table for a toy dataset

**Theory + Practical**

Checking names, IDs and confidence levels for consistency

**spotting mismatches and duplicates** **clarity for**  
**readers and collaborators** **ready for deposition or**  
**sharing**

Deliverables: curated lipid list & reporting template

**annotation table (CSV/TSV)** **naming and ID SOP**  
**(PDF/HTML)** **checklist for manuscripts and repos**