

Enz-IMS: Enzyme Information Management System

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Abstract:

Enz-IMS (Enzyme Information Management System), is a software platform designed as a **modular, user-friendly platform, integrating data collection, storage, validation, retrieval, and reporting functionalities.**

Its architecture enables seamless data flow from laboratory experiments to structured databases, ensuring that functional parameters are captured in a standardized format. The system provides role-based access, allowing researchers to track individual tasks and projects in real time. The software automates the collection of enzyme molecular properties, including:

- ✓ **Classification and Nomenclature**
- ✓ **Enzyme Nomenclature data entry**
- ✓ **Enzyme-Ligand interaction data**
- ✓ **Functional Parameter data**
- ✓ **Organism Related information data**
- ✓ **Organism Information data search for organism, structure & properties**
- ✓ **Enzyme Structure data**

Enz-IMS enables researchers to maintain a centralized repository of enzyme data, enhancing reproducibility and collaborative research. Enz-IMS represents a novel contribution to enzyme bioinformatics by integrating biochemical and molecular data into a unified framework.

Its capabilities in **data management, task monitoring, and systematic documentation** make it an indispensable tool for laboratories engaged in enzyme research, biotechnology, and molecular biology.

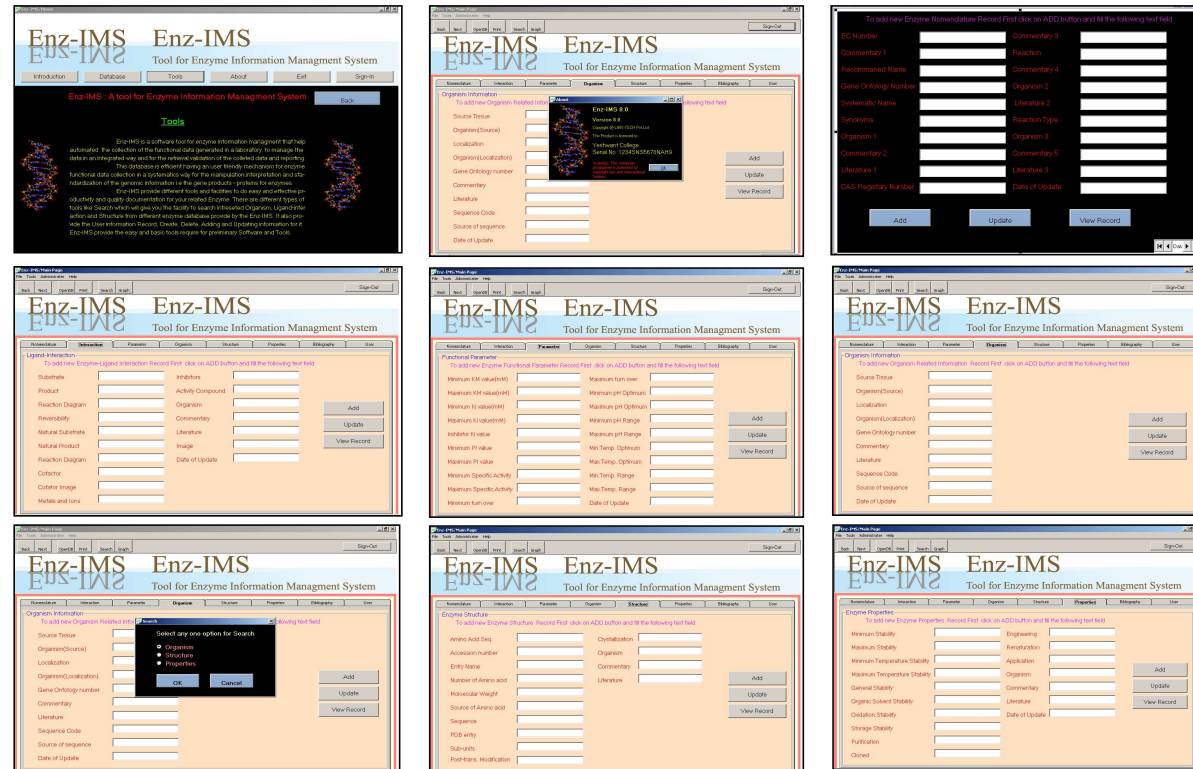


Fig 1-9: Screenshots for Enz-IMS (Enzyme Information Management System), a desktop-based bioinformatics application developed in 2008 using Visual Basic 6.0, designed to manage, analyze, and retrieve enzyme-related data efficiently.

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