



## Molecular models

Reference: Chapter 10, Section 10.1, pages 464–473, and Section 20.3, pages 514–521

### Aim

To explore both real and virtual molecular models of organic molecules.

### Introduction

In organic chemistry we commonly represent structural formulas in two dimensions on paper for convenience. For example:



But in order to understand several aspects of organic structure and reactions, we need to consider the three-dimensional shape. This can be visualized by building real molecular models, and also virtually using molecular software programs. In this experiment you will have the chance to explore some of these ways of representing the three-dimensional shapes of organic molecules.

### Pre-lab questions

- 1 Consider the ways in which two-dimensional structural formulas of the type shown on page 468 can provide misleading or incomplete information about the geometry of molecules.

The angle not always the same as in the given structural formulas. It does not given the real proportion of the lengths of the bonds and sizes of the atoms.

### Method

Molecular models can be built using toothpicks to represent bonds and spherical materials to represent atoms, such as Plasticine or polystyrene balls. Several scientific kits are also available commercially. (The models photographed in Chapter 10, for example on pages 476 and 477, are built using Molymod kits.)

There are many software programs available to build and explore molecular models. Some free ones include:

- [Chemsketch](#) (not for Mac users)
- [Avogadro](#)
- [Phet Colorado](#)

# Chapter 12 Lab Molecular Models

**Karin Nielsen-Saines**



## **Chapter 12 Lab Molecular Models:**

**Tau Protein** Caroline Smet-Nocca,2024-03-21 This volume explores the latest advancements and techniques to study Tau protein that include basic and advanced methods and protocols from in vitro assays to in vivo models that address the molecular and functional aspects of tau physiopathology and many of its related technical issues The chapters in this book are organized into five parts Part One describes conformational and functional studies of native tau protein using wet and non wet lab protocols Part Two looks at in vitro methods to monitor or control the formation of Tau oligomers and fibrils and the fibrillization process Part Three provides protocols for the characterization and in vitro introduction of post translational modifications in Tau protein for further functional studies Part Four describes analytical tools for the detection of Tau proteins under various forms factors associated with Tau pathology and MAPT gene studies Finally Part Five explores cellular and in vivo models for the investigations of Tau physiopathology Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Tau Proteins Methods and Protocols Second Edition is a valuable tool for any researcher interested in learning more about this important and developing field related to Tau protein as a relevant and attractive target for neurodegeneration therapies

**Using Physical Models of Biomolecules to Teach Concepts of Biochemical Structure in Introductory Undergraduate Chemistry** John Yi,2004

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in this newly created area has been published in journals and other periodicals It is the editors opinion that it is timely to sum up the most important achievements in the field and provide the scientific community in a reference book The goals of this project include illustrating the achievements made so far debating the state of the art and drawing new perspectives

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