

Modification of Plant Components into Medicine

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Abstract

Chemistry is the art of creating and knowing molecules, what they do. Each day a lot of chemists around the world produce and invent new molecules. Fungi, plants, insects and bacteria produce thousands of chemical compounds and many of these compounds are bio-active, it means that they interact with living matter to cause disease or, even cure disease.

Keywords: Chemical compounds. • Plant • Fungus • Natural product

Introduction

Chemistry is the art of creating and knowing molecules, what they do. Each day a lot of chemists around the world produce and invent new molecules. Fungi, plants, insects and bacteria produce thousands of chemical compounds and many of these compounds are bio-active, it means that they interact with living matter to cause disease or, even cure disease. Of this purpose there is a lot of research work seeking to discover, isolate, classify and copy natural products. We can separate these chemical compounds from the plants using such techniques such as chromatography. Such methods are based on the idea that dissolved compounds move at various velocities through a filter.

In order to determine what a compound is, it is necessary to know not only what atoms it contains but how they are arranged and bonded together. It includes such properties as acidity and solubility, and one compound's ability to bind with another. One of the drawbacks of using plants as a raw material for medicine is maintaining a supply: the plant can be difficult to produce, and since the compounds are mostly extracted in very small quantities, extraction can be expensive. Large quantities are required to study the compounds in depth, and perhaps even to test them as a new medicine. Many scientists work on the synthesis of natural products: the production of compounds in the laboratory that are found in nature. These natural products can have very complex structures,

and more than twenty chemical reactions are sometimes needed before successfully making an exact copy of the natural product.



Figure. Herbal plants and its components

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