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Natural products, especially within the field of organic chemistry, are often defined as primary and secondary metabolites. A more restrictive definition limiting natural products to secondary

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natural products has advanced tremendously thanks to contributions from the fields of chemistry, life sciences, food science and material sciences.

Comparisons of natural products from microorganisms, lower eukaryotes, animals, higher plants and marine organisms are now well documented. This

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Natural Products Organic chemistry had its genesis in the study of naturally occurring substances, and this remains a



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constant source of information and  
intellectual challenge. In this section some  
of the most interesting and important  
classes of natural products will be  
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## Natural Product Chemistry

Chemistry of Natural Products Sujata V.

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Within the field of organic chemistry, the definition of natural products is usually

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restricted to organic compounds isolated from natural sources that are produced by the pathways of primary or secondary metabolism. Within the field of medicinal chemistry, the definition is often further restricted to secondary metabolites.

Natural product - Wikipedia

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These common products make use of organic chemistry: Shampoo Gasoline Perfume Lotion Drugs Food and food additives Plastics Paper Insect repellent Synthetic fabrics (nylon, polyester, rayon) Paint Mothballs (naphthalene) Enzymes Nail polish remover Wood Coal Natural gas Solvents Fertilizers Vitamins ...

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regarding the classes of natural products  
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of study; one in which the weight of research effort involved is invariably disproportionate to the results achieved, in which the participating schools generally confine their approach to specific molecular species, and in which as yet no consensus has been reached regarding likely precursors. The problems which

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beset those engaged in this field represent a combined function of the abnormal complexity of the gradational range of oligomers of increasing mass and affinity for substrates which typify most extracts rich in tannins, and the consequent problem of their isolation and purification, the high chirality of tannin oligomers, the

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need to contend with the phenomenon of dynamic 'rotational isomerism about interflavanoid bonds in the <sup>1</sup>H n.m.r. spectral interpretation of their derivatives, the lack of precise knowledge regarding the points of bonding at nucleophilic centres, and the obvious limitations of a hitherto predominantly analytical

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approach. The last of these reflects the need for a general method of synthesis which permits unambiguous proof of both structure and absolute configuration also at higher oligomeric levels. With these objectives in mind we initiated a purely synthetic approach based on the premise that flavan-3,4-diols as source of

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