#1 – Overview of natural product chemistry Table of contents -1/4–





What are primary and secondary metabolites?

#1 – Overview of natural product chemistry Table of contents -2/4–



Typical flow in natural product chemistry

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▶ Drug development using artificial compounds (comparison with natural products)
▶ Power of natural products (examples of natural products that made huge impacts)

1 – Overview of natural product chemistry

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Major categories of natural products

alkaloids (highly modified amino acids)

cocaine

caffeine

steroids (terpenes with a specific ring system)

cholesterol

testosterone

terpenoids (oligomerized isoprenes)

menthol

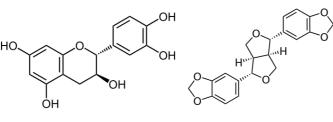
retinol

glycoside (highly modified sugars)

salicin

kanamycin

o polyphenol



catechin

sesamin

olyketide (oligomerized malonic acid)

erythromycin

tetracycline

peptides (amino acid oligomers)

vancomycin
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