

MOLECULARLY IMPRINTED POLYMERS IN BIOTECHNOLOGY%0A

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[Biotope - MIPs - Molecularly Imprinted Polymers](#)
MIPs (Molecularly Imprinted Polymers) are engineered cross-linked polymers that can exhibit high affinity and selectivity towards a single compound or they can be designed to exhibit Class Selectivity for a family of related compounds.

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Application of molecularly imprinted polymers in sensors for the environment and biotechnology, Sens. Rev. 2001; 21 : 292-296 View in Article

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[Molecularly imprinted polymer - Wikipedia](#)

A Molecularly Imprinted Polymer (MIP) is a polymer that has been processed using the molecular imprinting technique which leaves cavities in polymer matrix with affinity to a chosen "template" molecule.

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Molecularly imprinted polymer (MIP) is a polymer with a memory of the shape and the functional groups of a template molecule. This material is designed in order to recognize selectively the template molecule used in the imprinting process, even in the presence of compounds with structure and functionality similar to those of the template. Molecularly imprinted polymer then acts essentially as an antibody. High molecular recognition properties can be achieved with these MIPs for a variety [Molecularly Imprinted Polymers in Biotechnology | SpringerLink](#)

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Review Molecularly Imprinted Polymers in Electrochemical and Optical Sensors Omar 2 S. Ahmad,1,2,*, @ Thomas S. Bedwell,2 Cem Esen,2,3 Alvaro Garcia-Cruz,2 and Sergey

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biotechnology Sens. Rev., 21 (2001), pp. 292 - 296 4
molecularly imprinted polymer - an overview ...

Molecularly imprinted polymers have come to be recognised as antibody mimics since Mosbach and co-workers demonstrated the use of imprinted polymers for the sorbent assay of drugs [1]. Not only in applications, but also in preparation principle, imprinted polymers can be regarded as antibody mimics; the synthesis proceeds in a tailor-made fashion and the resultant polymers show specific

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The main advantages of molecularly imprinted polymers (MIPs) are their high selectivity and affinity for the target molecule used in the imprinting procedure. Imprinted polymers compared to biological systems such as proteins and nucleic acids, have higher physical robustness, strength, resistance to elevated temperature and pressure and inertness towards acids, bases, metal ions and organic [Polymers | Special Issue : Molecularly Imprinted Polymers](#)

Molecularly imprinted polymers (MIPs) are synthetic polymers with a tailor-made capacity to recognize a target molecular structure. Since the seminal works of Mosbach and Wulff during the 1980s, MIPs have attracted an ever-growing interest by the scientific community, witnessed by the exponential increase in scientific literature. In recent years, molecular imprinting technology has become a [Molecularly imprinted polymers: synthesis and ...](#)

1. IntroductionFrom Glasgow to Timbuktu, scientists are replicating, adapting and evolving synthetic methods for the production of molecularly imprinted polymers in their own laboratories, in order to study and exploit the exquisite molecular recognition properties of these extraordinary materials for their own ends.

[\(PDF\) Molecularly Imprinted Polymers - ResearchGate](#)

In essence, a molecular memory is imprinted in the polymer, which is now capable of selectively binding the target. Molecularly imprinted polymers (MIPs) thus possess the most important feature of

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