



Nose to Brain Delivery

Guest Editors:

Prof. Dr. Paolo Giunchedi

Department of Medicine, Surgery
and Pharmacy, University of
Sassari, Via Muroni 23/a, 07100
Sassari, Italy

Prof. Dr. Elisabetta Gavini

Department of Chemistry and
Pharmacy, University of Sassari,
via Muroni 23/a, 07100 Sassari,
Italy

**Prof. Dr. Maria Cristina
Bonferoni**

Department of Drug Sciences,
University of Pavia, Viale
Taramelli 12, 27100 Pavia, Italy

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Message from the Guest Editors

The blood-brain barrier (BBB) separates the central nervous system (CNS) from general circulation. Drugs targeting the brain represent a remarkable problem, owing to BBB, which does not allow most drugs to pass through it. The use of a nose-to-brain delivery route is an important and noninvasive method of drug delivery to solve this problem and bypass the BBB. Different strategies have been developed to enhance nose-to-brain drug delivery. In fact, it is well-known that an intranasal direct anatomical connection between the nasal cavity and the CNS exists, which suggests the development of nasal formulations for brain targeting of drugs. The design and preparation of nasal formulations involve the development of polymeric pharmaceutical platforms able to interact with nasal mucosa: Bioadhesion and penetration enhancement through nasal mucosa layers are the first and most important characteristics that these systems must have. The development of new nasal systems represents a great challenge in the field of controlled drug targeting and delivery.

This Special Issue has the aim of highlighting current progress in the use of the nasal route for brain targeting.





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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics,
Ernest Mario School of
Pharmacy, Rutgers University,
Piscataway, NJ 08854, USA

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Pharmaceutics Editorial Office
MDPI, St. Alban-Anlage 66
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