



Active targeting of brain tumors using nanocarriers

Submitted by Laurent Lemaire on Mon, 06/06/2016 - 15:27

Titre	Active targeting of brain tumors using nanocarriers
Type de publication	Article de revue
Auteur	Béduneau, Arnaud [1], Saulnier, Patrick [2], Benoît, Jean-Pierre [3]
Editeur	Elsevier
Type	Article scientifique dans une revue à comité de lecture
Année	2007
Langue	Anglais
Date	Nov. 2007
Numéro	33
Pagination	4947-67
Volume	28
Titre de la revue	Biomaterials
ISSN	0142-9612
Mots-clés	Antibodies, Monoclonal [4], Biocompatible Materials [5], Biological Transport [6], Blood-Brain Barrier [7], Brain Neoplasms [8], Cerebrovascular Circulation [9], Drug Carriers [10], Drug Delivery Systems [11], Humans [12], ligands [13], Lipids [14], Liposomes [15], Micelles [16], nanoparticles [17], Peptides [18]
Résumé en anglais	<p>The delivery of drugs to brain tumors is limited by the presence of the blood-brain barrier (BBB) separating the blood from the cerebral parenchyma. An understanding of the specific mechanisms of the brain capillary endothelium has led to the development of various strategies to enhance the penetration of drugs into the brain tissue. Active targeting is a non-invasive approach, which consists in transporting drugs to target organs using site-specific ligands. Drug-loaded nanocarriers capable of recognizing brain capillary endothelial cells and cerebral tumoral cells have shown promising potential in oncology. Endogenous and chimeric ligands binding to carriers or receptors of the BBB have been directly or indirectly conjugated to nanocarriers. This review indexes the main targeted colloidal systems used for drug delivery to the brain. Their pharmacological behavior and their therapeutic effect are discussed.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua14675 [19]
DOI	10.1016/j.biomaterials.2007.06.011 [20]
Autre titre	Biomaterials
Identifiant (ID) PubMed	17716726 [21]

Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=24780](http://okina.univ-angers.fr/publications?f[author]=24780)

[2] <http://okina.univ-angers.fr/patrick.saulnier/publications>

- [3] <http://okina.univ-angers.fr/j.benoit/publications>
- [4] [http://okina.univ-angers.fr/publications?f\[keyword\]=10160](http://okina.univ-angers.fr/publications?f[keyword]=10160)
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=8355](http://okina.univ-angers.fr/publications?f[keyword]=8355)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=6012](http://okina.univ-angers.fr/publications?f[keyword]=6012)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=10146](http://okina.univ-angers.fr/publications?f[keyword]=10146)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=8329](http://okina.univ-angers.fr/publications?f[keyword]=8329)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=8488](http://okina.univ-angers.fr/publications?f[keyword]=8488)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=7966](http://okina.univ-angers.fr/publications?f[keyword]=7966)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=7832](http://okina.univ-angers.fr/publications?f[keyword]=7832)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=5448](http://okina.univ-angers.fr/publications?f[keyword]=5448)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=1146](http://okina.univ-angers.fr/publications?f[keyword]=1146)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=8384](http://okina.univ-angers.fr/publications?f[keyword]=8384)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=21053](http://okina.univ-angers.fr/publications?f[keyword]=21053)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=4839](http://okina.univ-angers.fr/publications?f[keyword]=4839)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=4952](http://okina.univ-angers.fr/publications?f[keyword]=4952)
- [19] <http://okina.univ-angers.fr/publications/ua14675>
- [20] <http://dx.doi.org/10.1016/j.biomaterials.2007.06.011>
- [21] <http://www.ncbi.nlm.nih.gov/pubmed/17716726?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)