Other Drug Transport Systems:

Liposomes: their natural chemical composition, controllable pharmokinetics, and their ability to protect encapsulated drugs allows for drug delivery across cell membranes.



Nanoparticles: can deliver • drugs that would not normally be able to cross certain membranes in vivo. They can also target the drugs towards specific cells and organs.



such as, such as, such as \bullet albmunin, facilitate uptake of the drug and offer a degree of selectivity. Abraxane is albumin-bound paclitaxel, which is used to treat breast cancer.



Why Copper?

Compared to other first-row transition metal ions, the octahedral Cu(II) ion is much more stable when bound to a ligand containing nitrogen. Binding Cu(II) to the amine group of a drug often times increases its water solubility, thus improving the efficacy of the drug.















Phenobarbital- Anticonvulsant



Improving the Efficacy of Amine Containing Medicines: A Computational Approach Jarrett M. Darrah, Aaron C. Ford, Sierra Marable, Sadie E. Paulk, K. Ledwitch, T.

Manning (faculty advisor)

Chemistry Department Valdosta State University

In this computational study, approximately 150 well known medicinal agents, from malaria drugs to cancer treatments, are examined as candidates for improving their efficacy, by increasing their water solubility. Each of these agents contain an amine. As opposed to other approaches, such as liposomes, nanoparticles or proteins, this study will show that a number of drugs can have improved water solubility, thereby offering better treatment efficiency by binding the amine structure to a specific cation in the correct molecular location. The ratio of the molecules' dipole moment (D; Debye) to molecular volume (V; A³) or its D/V ratio when unbound compared to the bound complex is used to make the physiological argument.



World Health Organization List of Essential Medicines- Approximately 140/320 drugs contain an amine group.



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