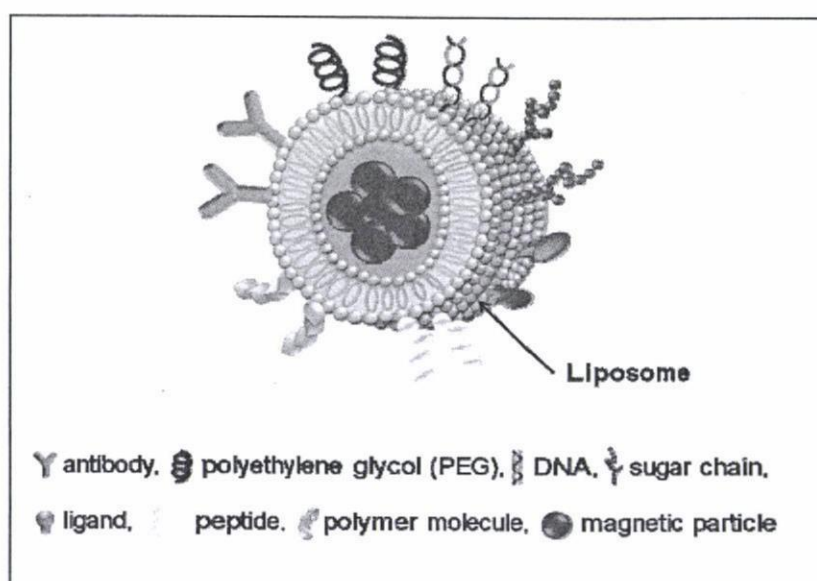


regression and disappearance of the sarcoma⁶⁾.

In the 1980s, liposomes containing magnetite (magnetic liposome) were developed, and accumulation of these liposomes by the use of an electronic magnet was tested in an animal study⁷⁾. Magnetic liposomes have been improved and their anticancer effects under an alternative current magnetic field have been demonstrated in animal studies¹⁹⁾. We have been attempting to isolate novel magnetic materials that also have biological properties such as cytotoxicity. Magnetic materials that also have biological properties will be useful for improving DDSs, which should lead to reduction in side effects in the near future.



Schematic illustration of liposome for a DDS. A liposome can contain probes (DNA plasmid, siRNA, virus vector) and magnetic particles.

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