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To whom it may concern

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Substance patent applications of "pH-Sensitive Micelle" and "Sensor Linked Micelle" are allowed (going to be registered)

A substance patent application of a pH-sensitive micelle which can release the encapsulated drug effectively by sensing the intracellular pH change was allowed by patent office in Japan as well as in Europe.

A substance patent application of a sensor linked micelle was also allowed by patent office in Australia as well as in Japan and Canada.

[pH-sensitive micelle application]

- Title of the invention: Block Copolymer for Drug Conjugates and Pharmaceutical Composition
- Patent application number: 2008-539901
- Patentee: NanoCarrier Co. Ltd.

A pH-sensitive micelle improves a therapeutic efficacy through a selective drug release inside the tumor cell by utilizing the intracellular pH gradient. This mechanism was applied to Epirubicin Micelle (NC-6300), which is in preparation for pre-clinical study in collaboration with the National Cancer Institute.

[Sensor linked micelle application]

- Title of the invention: Active Targeting Polymer Micelle Encapsulating Drug, and Pharmaceutical Composition
- Patent application number: 2009277456
- Patentee: NanoCarrier Co. Ltd.

A sensor linked micelle, a micelle having the sensor with high affinity for cancer cell on the surface, was prepared aimed at the enhancement of the targeting ability. In this sensor linked micelle, sensor and drug are bound to the polymer separately overcoming the synthetic problem, which leads to the expansion of application area of the sensor linked micelle.