



## 具有生物相容性之可降解彈性體

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簡歷：<http://homepage.ntu.edu.tw/~shhsu/index.htm>

市場及需求：醫療器材、組織工程

**技術摘要：**本發明係提供一種具有生物相容性之可降解彈性體，其可透過不同之可降解軟鏈之選擇而改變其機械性質、降解性質與生物相容性。本發明之生物可降解彈性體可用於人工血管、細胞載體、基因載體或藥物載體之製造。

**優勢：**水性製程、生物可降解、高生物相容性、高彈性。

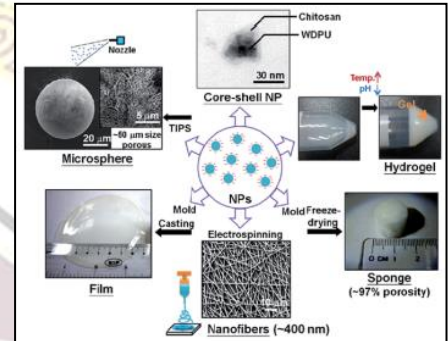
**競爭產品：**Corethane™、Carbothane™、Pellethane®。

**專利簡述：**

- (1)本技術已有相關專利 (中華民國專利申請號: TW I466908；美國專利申請號: US 14/145,393)。
- (2)本研究生物可降解彈性體具有良好的機械性質、生物可降解性與生物相容性，並可透過水性製程加工成人工血管、細胞載體、基因載體或藥物載體。

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## Biocompatible and biodegradable elastomer

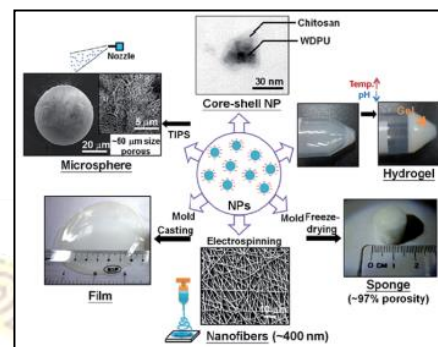
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**Experience:** <http://homepage.ntu.edu.tw/~shhsu/index.htm>

**Market Needs:** Medical device/ Tissue engineering

**Our Technology:** The present invention provides a biocompatible and biodegradable. The mechanical properties, degradation rate, and biocompatibility could be adjusted by the types and ratios of the biodegradable oligodiols in the soft segment. The biodegradable elastomer of present invention can be used to produce vascular graft, cell carrier, drug carrier or gene carrier.



**Strength:** Water-based process, biodegradability, excellent elasticity and biocompatibility.

**Competing Products:** Corethane™、Carbothane™、Pellethane®.

### Intellectual Properties:

- (1) R.O.C. Patent : TW I466908, U.S. Patent Application No.: US 14/145,393.
- (2) The biocompatible and biodegradable elastomers demonstrate good mechanical strength, biodegradability, and biocompatibility. The biodegradable elastomer can be used to produce vascular graft, cell carrier, drug carrier or gene carrier by water-based process.

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