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	MEMS-based micro-dosing drug delivery devices (i.e., biochips) consist of micro pumps, micro sensors, micro fluid channels and necessary related circuits and are mainly aimed at serious chronic diseases such as diabetes, or abrupt life threats such as heart attack, stroke, etc.
	<ul> <li>Based on a real-time measurement from micro sensors, the appropriate and effective amount of dose is precisely calculated by a controller and released by micro actuators/mechanisms in time.</li> <li>These devices can be either implanted or simply placed under the skin.</li> <li>A key issue to be seriously taken into account is biocompatibility.</li> </ul>
CPEI	N/AUT Laboratory of Polymer Reaction Engineering













