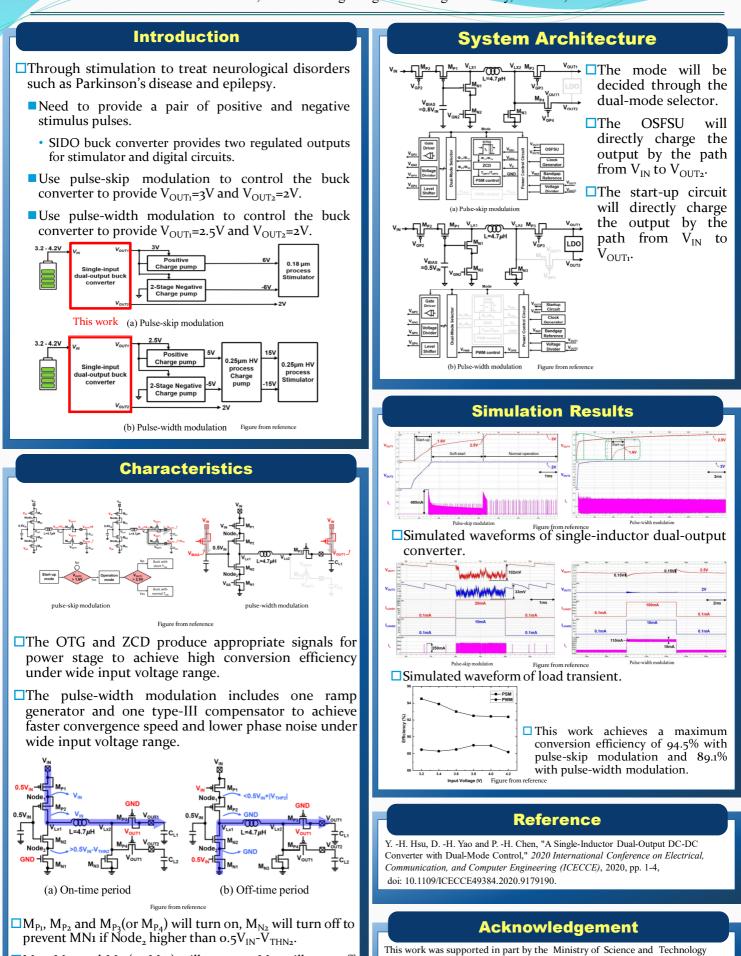
The 11th SEMBA (0344)

A Single-Inductor Dual-Output DC-DC Converter with Dual-Mode Control

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(MOST), Taiwan, under Grant 111-2636-E-A49-009 and in part by the Higher Education Sprout Project of the National Yang Ming Chiao Tung University

and Ministry of Education (MOE), Taiwan.

$$\label{eq:main_state} \begin{split} & \Box M_{N_2}, \, M_{N_1} \text{ and } M_{P_3}(\text{or } M_{P_4}) \text{ will turn on, } M_{P_2} \text{ will turn off} \\ & \text{to prevent } M_{P_1} \text{ if Node}_1 \text{ higher than } \text{o.} 5V_{1N} + |V_{THN_2}|. \end{split}$$