MANAGING NANO-BIO-INFO-COGNO INNOVATIONS

About the cover

The central part of the controllable 30-nm DNA-packaging motor of bacterial virus phi29. The motor is driven by six ATP-binding RNA (pRNA) molecules (six color spikes). Similar to a six-cylinder car engine, conformation change and sequential action of the six RNA ensures continuous rotation of the motor with ATP as energy to translocate the DNA (green) to pass the 3,6-nm central channel. Figure by Yinyin Guo adapted from Hoeprich & Guo, 2002. *J. Biol. Chem.* 277:20794 and; Chen & Guo. 1997. *J. Virol.* 71:3864 (courtesy of Prof. Peixuan Guo, Purdue University).

Managing Nano-Bio-Info-Cogno Innovations

Converging Technologies in Society

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