

- KRISHNA S, GABRIEL CIOBANU, *Computability Power of Mobility in Enhanced Mobile Membranes*.

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We explore the computability power of the various forms of mobility in membrane computing. First we improve a previous computational completeness result by showing that 5 membranes together with *endo*, *exo*, *fendo* and *fexo* operations are enough for Turing completeness (it is known that 3 membranes do not suffice). Then we show that 10 membranes along with *fendo*, *fexo* gives computational completeness, and 12 membranes along with *endo*, *exo*, *pendo*, *pexo* give computational completeness. When we look at restricted mobility described by *rendo*, *rexo*, *rfendo* and *rfexo*, we show that they do not give computational completeness; moreover, adding pure mobility to the restricted operations does not lead to the level of *RE*.