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### **Talk:** Some variants of P systems and their computational properties

**Abstract:** Membrane computing is an unconventional computing area that aims to abstract computing ideas (e.g., computing models, data structures, data operations) from the structure and functioning of living cells, as well as from more complex biological entities, like tissues, organs and populations of cells. The computational models that are part of this paradigm are generically called P systems, which are distributed and parallel computing devices. In this talk, inspired by different biological facts, some variants of P systems are introduced and the obtained results of these P systems are presented; besides, some open problems are given.