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Dendrimers as smart materials for developing the various applications in the field of biomedical sciences

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Developing new smart materials and tracking their structural potential have been in focus for curing diseases and other applications such as catalyzing biomolecules like proteins and selective bioremediation of toxic metals, dyes, pesticides have been thrust areas of research in the field of materials and biomaterials sciences. Since materials are most important need of the society which develops somewhere food, drug, fuel, protective cover, defense materials, fire resistant and acoustic mechanism, UV sensitive, UV absorbing, solar radiation trapping activities. In this context the dendrimers have been considered as ideal and smart materials to be applied for wider applications and directly, indirectly or catalyze modulator and many others. Thus, the dendrimers act as smart materials and the synthesis of such architectural and potential molecules is being considered as a new thrust area for multitasking materials with better activities to catalyze chemical and biochemical processes. The multifunctional materials of multipurpose uses with several dendrimeric branching, having innumerable binding sites and are in high demands for their drug binding, loading potential and bio coatings.

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