

Special Issue on
**Bio- and Nanotechnological Advancements in the
Treatment of Diabetes Mellitus**

CALL FOR PAPERS

Insulin has been used for diabetes since its discovery in 1921. Researchers around the world have been trying to develop insulin mimetics and various insulin delivery matrices to enable oral delivery, rather than the current route of insulin injections. To date, no new insulin matrices for oral delivery have been established or have shown commercial viability. Thus, new research has proposed nano- and microtechnologies to play major roles in the design and development of new therapeutics for diabetes treatment using natural and synthetic polymers. Thus, the chemical and physical interactions between different excipients of nano- and microcapsules play a major role in the stability and efficacy of the nano/microcapsules and, thus, are an area of great interest in drug delivery and stability of various matrices.

This special issue welcomes review and original research articles which aim to elucidate how the nature and physicochemical characteristics of natural and synthetic polymers and copolymers can transform drug and tissue deliveries in diabetes treatment, with a focus on using nano- and microencapsulation in drug delivery, pharmacology, and end-user 'patient' translational benefits and using microencapsulation and microfluidics technology in cellular and drug delivery and insulin therapy.

Potential topics include but are not limited to the following:

- ▶ Antidiabetic drugs, tissue nanotechnology, and delivery for diabetes treatment
- ▶ Nano- and microtechnologies in drug delivery and efficacy in glucose control and diabetes treatment
- ▶ Microfluidics in cell delivery and pancreatic islet-delivery and diabetes treatment
- ▶ Biotechnological advancement in cell delivery and diabetes treatment
- ▶ Tissue engineering, nanoencapsulation, and diabetes therapies

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jdr/nddcd/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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