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7.	<p>Brief account of your research interests with special focus on Nano Science and Technology:</p> <p>Aflatoxins are one of the most potent toxic substances produced by fungi <i>Aspergillus flavus</i> and <i>Aaspergillus parasiticus</i>. Aflatoxicosis is poisoning that result from ingestion of aflatoxin in contaminated food or feed and is reported from all parts of world in almost all domestic and non domestic animals as well as in humans also. Groundnut is more prone to infestation by above two closely related species offungi; India is a leading groundnut producing country in the world, but the higher Aflatoxin load in the exportable commodities enhanced health risk for both human beings and livestock as well as seriously jeopardized the export earnings</p>

	<p>presently, thereby depriving the country of valuable foreign exchange.</p> <p>The majority of the common established methodologies for aflatoxin detection have excellent sensitivities, but they typically require skilled operators, extensive sample pretreatment and expensive equipment as well as lack the ability to either perform simultaneous analysis of multiple samples or multiple target analytes. New integrated magneto metric nanosensors with a minimal size, weight and power consumption will significantly impact the practice of precision agriculture. The present investigation is an attempt in this direction.</p> <p>The expected outcome of the proposed program may be a smaller, faster, cheaper and more sensitive nanosensor device for the detection of aflatoxin, which will be extremely useful for control of respective pathogen at all possible level of food chain and ultimately result in high-quality agri-food safety</p>
8.	<p>Keywords related to your research interests :</p> <p>Immunomagnetic Assay for Detection of Aflatoxin, Nanobiotechnology, Nanosensor, Magnetometric Nanosensor device, Ironoxide Nanoparticles</p>