



Dr. Vikash Nain

Assistant Professor (Contractual), Department of Food Science & Technology, Chaudhary Devi Lal University, Sirsa, Haryana (India).

Qualification

- **Ph.D. Food Science & Technology (2018)**, Chaudhary Devi Lal University Sirsa, India, *Supervisor – Dr. Kawajit Singh Sandhu*
- ASRB-NET **2014(i), 2014(ii)** and **2021**.
- **M.Sc. Food Science & Technology (2009)**, Department of Food Science & Technology, Chaudhary Devi Lal University Sirsa, India
- **B.Sc. Biotechnology (2007)**, Department of Biotechnology, CRM Jat PG College Hisar (Kurukshetra University Kurukshetra), India

Experience

Teaching Experience

- **Assistant Professor (Contractual)**, at Department of Food Science & Technology, Chaudhary Devi Lal University Sirsa from September, 2015 to current.
- **Teaching Associate** at Department of Food Technology, Guru Jambheshwar University of Science & Technology, Hisar from August. 2014 to May 2015.

Research Area

Completed Ph. D. thesis on title “**Development and characterization of Starch nanoparticles from different botanical sources and their application in drug delivery**”.

Currently working on:

- Isolation of starches from non-conventional sources.
- Development of Starch nanoparticles and their application in biodegradable films.

Research Interests

Starch Nanoparticles, biodegradable films and starch isolation from non-conventional Sources.

Publications

Papers

List of research and review articles:

	Authors name	Title	Journal name	Publisher/country	Impact factor
1	Vikash Nain, Maninder Kaur, Kawaljit Singh Sandhu, Rahul Thory, and Archana Sinhmar.	Development of Starch Nanoparticle From Mango Kernel in Comparison With Cereal, Tuber, and Legume Starch Nanoparticles: Characterization and Cytotoxicity. (2022)	<i>Starch-Stärke</i> ,	<i>Wiley online</i>	2.741

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2.	Chavan,Prafull, Archana Sinhmar, Somesh Sharma, Alain Dufresne, Rahul Thory, Maninder Kaur, Kawaljit Singh Sandhu, Manju Nehra, and Vikash Nain	Nanocomposite Starch Films: A New Approach for Biodegradable Packaging Materials.	<i>Starch-Stärke,</i>	Wiley online	2.741
3	Chavan, Prafull, Archana Sinhmar, Manju Nehra, Rahul Thory, Ashok Kumar Pathera, Antony Allwyn Sundarraj, and Vikash Nain.	Impact on various properties of native starch after synthesis of starch nanoparticles: A review.	<i>Food Chemistry</i>	Elsevier/USA	7.514
4	Vinita Sharma, Maninder Kaur, Kawaljit Singh Sandhu, Vikash Nain, and Sandeep Janghu.	Physicochemical and Rheological Properties of Cross-Linked Litchi Kernel Starch and Its Application in Development of Bio-Films (2021).	<i>Starch-Stärke,</i>	Wiley online	2.741
5	Harleen Gujral, Archana Sinhmar, Manju Nehra, Vikash Nain, Rahul Thory, Ashok Kumar Pathera, and Prafull Chavan	Synthesis, characterization, and utilization of potato starch nanoparticles as a filler in nanocomposite films (2021).	<i>International Journal of Biological Macromolecules</i>	Elsevier/USA	6.953
6	Ishita Sharma, Archana Sinhmar, Rahul Thory, Kawaljit Singh Sandhu, Maninder Kaur, Vikash Nain, Ashok Kumar Pathera, Prafull Chavan	Synthesis and characterization of nano starch-based composite films from kidney bean (<i>Phaseolus vulgaris</i>) (2021)	J Food Sci Technol	Springer	1.946
7	Vikash Nain, Maninder Kaur, Kawaljit Singh Sandhu, Rahul Thory, and Archana Sinhmar.	Development, characterization, and biocompatibility of zinc oxide coupled starch nanocomposites from different botanical sources(2020)	International Journal of Biological Macromolecules.	Elsevier/USA	6.953
8	Kripa Roy, Rahul Thory, Archana Sinhmar, Ashok Kumar Pathera, and Vikash Nain.	Development and characterization of nano starch-based composite films from mung bean (<i>Vigna radiata</i>) (2020).	International Journal of Biological Macromolecules.	Elsevier/USA	6.953
9	Chandni Dularia, Archana Sinhmar, Rahul Thory, Ashok Kumar Pathera, and Vikash Nain.	Development of starch nanoparticles based composite films from non-conventional source-Water chestnut (<i>Trapa bispinosa</i>) (2020)	International Journal of Biological Macromolecules.	Elsevier/USA	6.953
10	Kumar, Naresh, Raj Kumar Salar, Ravinder Kumar, Minakshi Prasad, Basanti Brar, and Vikash Nain.	Green Synthesis of Silver Nanoparticles and its Applications—A Review. (2017)	Nano Trends: A Journal of Nanotechnology and Its Applications	STM journals/India	--
11	Vikash Nain and Kawaljit Singh Sandhu	Rheological characterization of starch nanoparticles from different botanical sources.(2018)	<i>International Journal of Pharma and Bio Sciences</i>	India (UGC care listed of Publishing year)	--
12	Manju Nehra, Vikash Nain, and Brijlal Karwasra	Fruit Industry waste: Raw material for antioxidant Extraction(2020)	<i>International Journal of Research and Analytical Reviews (IJRAR)</i>	India	
13	Manju Nehra and Vikash Nain	Energy Balance to manage weight	<i>Journal of Agricultural Engineering and Food Technology (2019)</i>	India	

List of Book Chapters:

Sr. No.	Authors name	Title	Book name	Publisher/country
1	Kawaljit Singh Sandhu and Vikash Nain	Starch nanoparticles: their preparation and applications. (2016)	<i>In Plant Biotechnology: Recent Advancements and Developments</i>	Springer, Singapore.
2.	Loveleen Sharma, CS Saini, Sneha Punia, Vikash Nain , KS Sandhu	Sesame (<i>Sesamum indicum</i>) Seed (2020)	<i>In Oilseeds: Health Attributes and Food Applications</i>	Springer, Singapore.
3.	Anil Siroha, Brij Lal Karwasra, Vikash Nain	Introduction of Biomacromolecules	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India
4.	Jeenu, Manju Nehra, Vikash Nain & Amanjyoti	Fatty acids and enzymes as functional components (2020)	<i>In Miraculous Food world</i>	Shree publishers and Distributers, India
5.	Manju Nehra, Vikash Nain & Amanjyoti	EFAs: functional components in diet (2020)	<i>In Miraculous Food world</i>	Shree publishers and Distributers, India
6.	Naina, Vikash Nain, Manju Nehra, & Brij Lal Karwasra	Traditional Indian food/beverages for summers (2020)	<i>In Miraculous Food world</i>	Shree publishers and Distributers, India
7.	Archana Sinhmar, Rahul Thory, Vandana Dhaka, Vikash Nain	Amino Acid	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India
8	M.K.Kidwai, Vikash Nain , Amanjyoti, Nishant Grover, Ankita Kamboj	Enzymes	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India
9	Vikash Nain , Rahul Thory, Archana Sinhmar	Vitamins	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India
10	Rahul Thory, Archana Sinhmar, Manju Nehra , Vikash Nain	Carbohydrates	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India
11.	Dr. Manju Nehra , Vikash Nain , Amanjyoti, Nishant Grover	Lipids	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India
12	Vikash Nain , Archana Sinhmar, Rahul Thory, Manju Nehra	Phytoalexins	Principles of Biochemistry ISBN : 978-81-948287-7-8	SLM, Publishers, India

Books edited/ authored:

Sr. No.	Authors/editors name	Title of Book	Publisher/country	ISSN/ ISBN no
1.	Manju Nehra, Vikash Nain and Amanjyoti	Miraculous Food world (2020)	Shree publishers and Distributers, India	978-81-8941940-9-5
2.	Manju Nehra, Vikash Nain and Rahul Thory	Principles of Biochemistry (2021)	SLM publishers, India	978-81-948287-1-6

3.	Dr. Manju Nehra, Dr. Vikash Nain , Dr. Rahul Thory	Vitamins & Minerals: Boon to Human Health and Nutrition (2021)	The Readers Paradise	978-93-91109-15-8
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