

PKIRAN | Ph.D.

Assistant Professor | Department of Biosciences | School of Science (SOS)

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ACADEMIC QUALIFICATION

- 2016 *Ph.Din Food Science and Technology*
Department of Agricultural and Food Engineering, Indian Institute of Technology Kharagpur (IIT-KGP), West Bengal, India. Thesis title: “*Process development and characterization of reconstituted Aloe vera and its high methoxy pectin mixgels*”
Supervisor: Dr.P.Srinivasa Rao Associate professor at IIT-Kharagpur
- 2007 *M.Sc.In Biochemistry*
CMRIMSCollege, Bangalore University, Bangalore, Karnataka, India.
- 2004 *B.Sc.in Biochemistry-Chemistry-Microbiology*
T.S.R.andT.B.K.DegreeCollege, Andhra University, Vizag (AP), India.

WORK EXPERIENCE(> 4.5 YEARS POST PhD)

- Aug 2018-
till date
Academic activities at IU
Subjects Taught at IU
Research activities at IU
- Assistant Professor:** Department Biosciences, Indrashil University (IU), Rajpur, Ahmedabad, Gujarat, India
- Design course handouts, lab manual, internal committee member for UGC and NAAC visit, organizing members for national conferences and science camp, attended FDP program and workshops, conducted science model presentation etc.
- BSc & MSc Biosciences:** Macromolecules structure and functions [BIO-403] [BIO 1-203], Enzymology [BIO-408], Metabolism and Tissue Functions [BIO2 103], Analytical Tools and Techniques [BIO-405], Biochemistry Practical [BIO1106],
- Ph.D:** Computer application in Research [IU SR 02].
- ✓ **Publication:** One research article published in *Int. J. Biol. Macromol.*
 - ✓ **Poster presentation:** Presented poster in International Symposium on Food Rheology and Structure (ISFRS) at ETH Zurich, Switzerland
 - ✓ **ITS Travel grants:** Received 1.32 Lack INR from SERB, India and 500 CHF from ETH, Zurich for attending ISFRS conference at ETH Zurich, Switzerland.
 - ✓ **Book:** Editor of "*Recent advances in Food Biotechnology*" book for Springer Nature Singapore Pvt. Ltd, Singapore (In Press).
 - ✓ **Book Chapter:** One book chapter accepted
 - ✓ **Organizing member (OM):** Organized National conference on Synthetic biology and DST Inspire science camps at IU premises.
 - ✓ **Faculty Development Program (FDP):** Attended four training programs.
 - ✓ **Workshop (Technical):** Attended online workshop on “*Introduction to Rheology:* on 10-13th Oct 2020, organized by Venture Centre, NCL Pune.
 - ✓ **Training program (TP):** Conducted one-week in house training program on HPLC and NMR instrumentation to BSc 6th Sem, 2021 students at IU campus.
 - ✓ **Invited talks:** Delivered four talks
 - ✓ **Internal Committee member:** NAAC, UGC, science club, Anti-ragging, cultural and Blood Donation camps organizer at Indrashil University
 - ✓ **Projects and patents:** Nil

Apr2017-
July2018 **Assistant Professor:**Life Science Finishing School (LSFS), Indrashil Institute of ScienceandTechnology(IIST), Ahmedabad,Gujarat,India.

✓ Established the R&D lab setups for chemistry and biology branches

RESEARCH EXPERIENCE(2 years)

Apr
2010-
Apr
2012) **SeniorResearchFellowship(SRF)** at IIT Kharagpur for a project: “A *value chain on Aloe vera Processing (AVC)*” funded by the Indian Council of Agricultural Research (ICAR) and National Agricultural Innovation Project (NAIP), NewDelhi, India.

ORAL PRESENTATION AWARDS (1)

2015 Secured 2nd position in *oral presentation* during Research Scholars’(RS) day celebration of AGFE department, IIT Kharagpur held on12th December 2015.

INVITED TALKS (4)

5-7th Feb
2021. Delivered three talks on food chemistry atTechnology Entrepreneurship Development Program (TEDP) on Food Technology organized by Jyoti Institute of Technology, Bangalore, CIIRC and AIC-JITE, sponsored by NSTEDB-DST, New-Delhi.

28th sep
2021 *Deliver a talk on Novel aspects and challenges of high-demand medicinal plants and its future prospects at Takkur college of Science and Commerce- Mumbai.*

MEMBERSHIP (1)

✓ IndianSocietyofRheology(ISR),India

KEY PUBLICATIONS (5)

2018 **P.Kiran**, S.Chakraborty, & P.S.Rao, (2018). Rheological, functional and morphological characterization of reconstituted Aloe vera gels at different levels of pH and concentration: Novel concepts of reconstituted Aloe vera gels formation. *Int. J. Biol. Macromol.*120(PartA): 414-421. **(IF:6.9)**

2016 **P.Kiran**, N.Swami, and P.S.Rao, (2016) “Viscoelastic behaviour of reconstituted Aloe vera hydro gels as a function of concentration and temperature”, *Int. Journal of Food Prop*: DOI:10.1080/10942912.2016.1168436.**(IF:2.7)**

2016, **P.Kiran** and P.S.Rao, (2016) “Development and characterization of reconstituted hydrogel form *Aloe vera (Aloe barbadensis* Miller) powder”, *J. Food Meas. Charact.*10(3): 411-424.**(IF:2.4)**

2014 **P.Kiran** and P.S.Rao, (2014) “Rheological and structural characterization of prepared aqueous *Aloe vera* dispersions”, *Food Res Int.* 62:1029-1037. **(IF:6.4)**

2014 N.Swami,**P.Kiran** and P.S.Rao, (2014) “Rheological characterization of *Aloe vera* juice concentrates”, *J. Food Process Eng.*37(4):375-386.**(IF:2.3)**

BOOKS (1)

2020-21 Ajay Kumar, **P. Kiran**, Vijai Singh, (2021)“RecentAdvancesinFoodBiotechnology” *SpringerNature Singapore Pvt.Ltd.*, Singapore (In press).

BOOK CHAPTER (1)

2020-21 K. Gurveer and **P. Kiran** (2021), “Recent aspects of fortified foods: An overview on field testing tools and fortification program analysis methods”, RecentAdvancesinFood Biotechnology”, *SpringerNature Singapore Pvt. Ltd.*, Singapore (Accepted).

NATIONAL/INTERNATIONAL POSTER PRESENTATIONS- (5)

- 2019 **P. Kiran** and P.S.Rao, presentation on “*Reconstituted Aloe vera hydrogel formation and its application in high methoxy(HM) pectin mix gel formation*” at International symposium on Food Rheology and Structure (ISFRS)-2019 held at ETH University, Zurich, Switzerland (17th-20thJune2019).
- 2016 **P.Kiran** and P.S.Rao, presentation on “*Effect of process parameters on the viscoelastic, functional and morphological properties of reconstituted Aloe vera gels*”, at International Complex Fluids Conference held at Indian Institute of Science Education and Research (IISER), Pune, India (Jan,2016).
- 2014 **P.Kiran** and P.S.Rao, presentation on “*Development of reconstituted Aloe vera (Aloe barbadensis Miller) hydrogels based on rheological characterization*”, at National symposium on Complex Fluids held at Engineering Mechanics Unit, JNCASR, Bangalore, India (Dec,2014).
- 2013 **P.Kiran**, S.Mandal, P.S.Rao and A.Chandra, “*Effect of biotemplate rheology on properties of multiferroicceramics*”, at India-Singapore Joint Physics Symposium held at the Department of Physics, IIT-Kharagpur, India (Feb,2013).
- 2011 **P.Kiran**, S.Mandal, P.S.Rao and A.Chandra, presentation on “*Use of biotemplates to tailor the physical properties of multiferroicceramics*”, at International Conference on Theoretical and Applied Physics held at the Department of Physics, IIT-Kharagpur, India (Dec,2011).

WORKSHOPS/TRAININGS (6)

- 20th-25th
Sep 2021 • Attended 1 week National level *Faculty Development Programme* (FDP) on Intellectual property rights for Academia organized by C.K.B Commerce college, Jorhat, Assam and CSIR-IICT Hyderabad
- 10-13th
Oct 2020 • Attended 3 days online workshop on Introduction to Rheology by Dr. Chirag Kalelker (Assistant Professor, Department of Mechanical Engineering, IIT Kharagpur) organized by Venture Centre, NCL Pune.
- 21stSep
2019 • Attended 1 day *Faculty Development Programme* for faculties for technical courses: Indian Institute of Teachers Education (IITE), Gandhinagar, India.
- 4th-8th
Dec2017 • Attended 5 days AICTE-QIP short term course on “*Novel Technologies for Food Product Manufacturing and Shelf-LifeExtension*”: Indian Institute of Technology (IIT), Kharagpur.
- 12thOct-
2017 • Attended 1 day “*Extended Rheology Characterization*” training by Anton Paar at Indian Institute of Technology (IIT), Gandhinagar.
- Aug-Nov
2009 • 4 Months trained in handling analytical instrumentati on HPLC and GC for characterizing pharmaceutical samples viz., tablets, ointments and capsules: Derexlab, Hyderabad, India.

OTHERINFORMATIONS

- *Editorial member,Journal name:* NA
- *Reviewer of Peer-Reviewed journals:* Canadian Institute of Food Science and Technology (CIFST), Journal of Food Measurement and Characterization.
- 24-
25thFeb2
011 • *Position of responsibility:* Two days 24-25th Feb 2011,Organizing secretary in INAE National Symposium on Emerging Innovative Technologies for Assurance of Quality and Safety in Processed Food (FoQSAT2011): Agricultural and Food Engineering Department, IIT-Kharagpur.