


## Curriculum Vitae

<b>Full Name</b>	PRASANTA KUMAR HOTA			
<b>Designation</b>	Assistant Professor			
<b>Department</b>	Chemistry			
<b>Campus</b>	Srinagar			
<b>Telephone</b>	01346-252229			
<b>Mobile</b>	91-7579428876			
<b>Email</b>	prasanta.hota@gmail.com			
<b>Education Qualification</b>	<b>Degree (Year)</b>	<b>University</b>		
	M.Sc. (Chemistry) (1997)	Sambalpur University, Odisha		
	M.Phil. (Chemistry) (1999)	Sambalpur University, Odisha		
	Ph.D. (2006)	I. I.T. Bombay		
<b>Teaching Experience</b>	7 Years	<b>Research Experience</b>	23 Years	
<b>Areas of Interest/ Specialization</b>				
<ol style="list-style-type: none"> <li>1. Organic Chemistry, Physical Organic Chemistry, Bio-Organic Chemistry</li> <li>2. Photochemistry and Photophysics of Synthetic and Naturally occurring Photochromic material</li> <li>3. Reaction Mechanism</li> <li>4. Receptor Protein-Drugs Interaction</li> <li>5. Material for Organic Electronics</li> <li>6. Sensor for Industrial and Biological Applications</li> </ol>				
<b>Honours &amp; Awards</b>				
<ol style="list-style-type: none"> <li>1. Junior and Senior Research Fellowship (JRF and SRF) by University Grants Commission, New Delhi in Chemistry under CSIR-UGC Fellowship Scheme, 1999-2004</li> <li>2. Eighteen Best Research Award in 3rd Asian Photochemistry and Photobiology Conference, 2002</li> <li>3. GATE examination qualified Certificate, 1999 (96.57 percentile)</li> <li>4. Two Gold Medals for best student in Master of Science (1997) and Bachelor of Science (1995), by Sambalpur University</li> </ol>				
<b>Member of Academic Institutions:</b> None				
<b>Membership of Scientific Organization</b>				
<ol style="list-style-type: none"> <li>1. Life member Chemical Research Society of India</li> <li>2. Life member Indian Society of Radiation and Photochemical Sciences</li> <li>3. Life member Association of Chemistry Teachers</li> <li>4. Life member Indian Science Congress Association</li> </ol>				
<b>Research Supervision (No. of Ph.D. Degree Awarded/ Registered)</b>				
No. of Ph.D student awarded degree <b>1</b>				
No. of Ph.D student submitted thesis <b>1</b>				
No. of Ph.D student registered <b>1</b>				
<b>Research Projects</b>				
<ol style="list-style-type: none"> <li>1. Title of project : Optical properties of heterocyclic and aryl based donor-acceptor conjugated systems. Funding agency: University Grants Commission, New Delhi, Year : 2014-2016, Total Cost : INR 6,00,000</li> </ol>				

2. Title of project: Plexins In cardiovascular development: Signaling mechanisms involving the juxtamembrane region and lipid binding. Funding Agency : American Heart Association (AHA), USA, Year : 2008-2010, Total Cost : USD 88,000

#### **Administrative Experience**

1. Member of Board of Studies (BOS), Department of Chemistry, HNBGU (2018-2019)
2. Member of BSc and MSc Admission Committee, HNBGU (2014-present)
3. Member of Department Purchase Committee, Chemistry, HNBGU (2014-present)

#### **Scientific Visits Abroad/International Collaboration Papers presented in-**

Postdoctoral Fellow at McMaster University, Hamilton, Canada (2012-2013)  
Postdoctoral Fellow at Case Western Reserve University, Cleveland, USA (2010-2011)  
American Heart Association Research Fellow at Case Western Reserve University, Cleveland, USA (2008-2010)  
Postdoctoral Fellow at Case Western Reserve University, Cleveland, USA (2006-2008)

#### **Conference/Symposium/Workshop Attended during last five years (2015-2020).**

##### **International**

1. **Hota PK** and Kumar J, 15th DAE-BRNS Biennial Trombay Symposium on Radiation & Photochemistry (TSRP-2020) "Antioxidant properties of ethenyl indoles" (January 5-9, 2020, BARC, Mumbai) P-110
2. Gusain A, Kumar N and **Hota PK**, 15th DAE-BRNS Biennial Trombay Symposium on Radiation & Photochemistry (TSRP-2020) "Synthesis and biological properties of Ethenyl thiophenes" (January 5-9, 2020, BARC, Mumbai) P-112
3. Kumar N and **Hota PK**, International Conference on Advances in Analytical Sciences, "Synthesis, fluorescence and antioxidant activity of ethenyl thiophenes" (March 15-17, 2018, IIP Dehradun) A-56
4. **Hota PK**, Kumar J and Kumar N, 24 ISCB International Conference (ISCBC-2018) Frontier Research in Chemistry & Biology Interface "Conjugated Molecule: Substituent directed light induced properties and medicinal activities"(January 11-13, 2018, Manipal University, Jaipur), Oral Presentation, OP-23
5. **Hota PK**, Kumar N and Kumar J, 13th DAE-BRNS Biennial trombay symposium on radiation & photochemistry 2016 incorporating with 6th Asia pacific symposium on radiation chemistry-2016 "Photophysical studies on ethenyl indole and thiophene " (January 5-9, 2016, BARC, Mumbai) PP-138.

##### **National**

1. Hota PK, National Conference on Recent Frontier in Chemistry (NCRFC-2018), "Substituent directed light induced properties of conjugated molecules" (April 27-28, 2018, HNB Garhwal University, Srinagar campus)(Oral/ Invited presentation)
2. Kumar N and Hota PK, National Conference on Recent Frontiers in Chemistry, "Synthesis, fluorescence and photoisomerization studies on *p*-phenyl substituted ethenyl furan"(April 27-28, 2018, HNB Garhwal University, Srinagar campus) p64
3. Kumar J and **Hota PK**, National Symposium on Radiation & Photochemistry (NSRP2017) " Fluorescence studies on *p*-phenyl substituted ethenyl indoles" (March 2-4, 2017, Manipal University, Udupi), PC-49
4. Kumar N and **Hota PK**. National Symposium on Radiation & Photochemistry (NSRP2017) " Fluorescence and photoisomerization properties of ethenyl furans" (March 2-4, 2017, Manipal University, Udupi), PC-46
5. **Hota PK**, Kumar N and Kumar J, National Symposium on Radiation & Photochemistry (NSRP2017) " Effect of substituent and solvent on the fluorescence and photoisomerization properties of ethenyl thiophene" (March 2-4, 2017, Manipal University, Udupi), PC-48

### **Best Peer-Reviewed Publications 2015 onwards (up to 05)**

Kumar J, Kumar N, Sati N and **Hota PK** (2020) Antioxidant properties of ethenyl indole : DPPH assay and TDDFT studies. *New Journal of Chemistry* 44, 8960-8970. Impact factor 3.3, ISSN 11440546

Kumar P R, Yennam S, Raghavulu K, Velatooru L R, Kotla S R, Penugurti V, **Hota P K**, Behera M and Shree A J (2019) Synthesis of novel diaziridinyl quinone isoxazole hybrids and evaluation of their anti-cancer activity as potential tubulin-targeting agents. *Drug Research* 69, 406-414 (stuttg) Impact factor 1.7, ISSN 2194-9379.

Kumar N, Paramasivam M, Kumar J, Gusain A and **Hota PK** (2019) Tuning of optical properties of p-phenyl ethenyl-E-furans: A solvatochromism and density functional theory. *Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy* 206, 396-404. Impact factor 3.2, ISSN 13861425

Kumar N, Kumar J and **Hota PK** (2017) Substituent dependence charge transfer and photochemical properties of donor-acceptor substituted ethenyl thiophenes. *Journal of Fluorescence* 27, 1729-1738. Impact factor 2.0, ISSN 10530509

Jennings W, Doshi S, **Hota PK**, Prodeus A, Black S and Epand RM (2017) Expression, purification and properties of a human arachidonoyl specific isoform of diacylglycerol kinase. *Biochemistry* 56, 1337-1347. Impact factor 2.8, ISSN 00062960

### **Book/Book Chapter**

Muller-Greven J, Kim SJ, **Hota PK**, Tong Y, Borthakur S, Buck M (2017) "Characterizing Plexin GTPase Interactions Using Gel Filtration, Surface Plasmon Resonance Spectrometry, and Isothermal Titration Calorimetry, *Methods in Molecular Biology* vol. 1493, chapter 6, 89-105, in "Semaphorin Signaling" edited by J R Terman, e-ISBN 978-1-4939-6448-2 / print ISBN- 978-1-4939-6446-8 Springer New York

**Total Number of SCI peer reviewed research publications: 32 (Upto June 2020)**

See detail on webpage -

<https://sites.google.com/site/chemistryhnbgarhwaluniversity/home/>