

## CURRICULUM VITAE

Name **Dr. (Mrs.) Aliya Begum**

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### 1. Educational Qualification

<b>Examination</b>	<b>Year of passing</b>	<b>Board/University</b>	<b>Class/Division</b>	<b>%</b>	<b>Specialization/Topic</b>
<b>SSC</b>	1993	Board of Secondary	<b>First</b>	<b>75%</b>	
<b>Intermediate</b>	1995	Board of Intermediate	<b>First</b>	<b>72%</b>	Botany, Zoology, Physics and <b>Chemistry</b>
<b>B.Sc.</b>	1998	Osmania	<b>First</b>	<b>77%</b>	Botany, Zoology & <b>Chemistry</b>
<b>M.Sc.</b>	2000	Osmania	<b>First</b>	<b>67%</b>	<b>Organic Chemistry</b>
<b>Ph.D.</b>	2009	Osmania	<b>Ph.D. Awarded</b>		<b>Chemistry</b>

Specialization : **Organic Chemistry**

Teaching Experience: **Under graduate: 18 years Post graduate: 17 years**

## 2. RESEARCH

### (1).Investigation carried out as a Research scholar

<ul style="list-style-type: none"> <li>2003-2005- UGC <b>Minor Project</b> under the supervision of <b>Dr. CH. SARALA DEVI</b> at Osmania University College for Women, Koti.</li> </ul>	<b>Title of project</b> “Interaction of metal ions with some important biologically active chelating agents”.	UGC Rs.40,000/-
<ul style="list-style-type: none"> <li>2005-2009- As Research Scholar worked for Ph.D programme under the supervision of <b>Dr. CH. SARALA DEVI</b>.</li> </ul>	<b>Title of Thesis</b> “Spectro-analytical studies on 5-Phenyl-3-mercapto-1,2,4- triazole derivatives and their metal complexes”.	

### (2). Research Project completed as a Co-investigator

Minor/Major Research Project	Funding Agency and Amount	Duration	Topic
<b>Minor Research Project</b> in association with Principal Investigator Prof. Rafeeq Mohiuddin Professor,Osmania University College for Women Koti.	UGC Rs.1,95,000/-	(2011-2013)	Conventional and Green synthetic methods, microbial activity and assay of mercapto triazoles having $\beta$ -lactam ring.

### (3).Research Project completed as Principal investigator

Minor/Major Research Project	Funding Agency and Amount	Duration	Topic
<b>Minor Research Project</b>	UGC Rs.3,10,000/-	(2014-2016)	Synthesis, characterization, antimicrobial and antitumor activity of amino substituted mercapto triazoles containing coumarin moiety

### (3). Research publications

1. Spectral and Equilibrium Studies on some new derivatives of 4-Amino-5- phenyl-3-mercapto-1, 2, 4-triazole. **Aliya**, Sireesha B., Venkataramana Reddy Ch. and Sarala Devi Ch.; J. Indian Chem. Soc., 85 (2008) 926.
- 2 Spectral and single crystal X-ray structure of 4-(4'-methyl) benzylidene amino- 5-phenyl-3-mercapto-1,2,4-triazole;its antimicrobial activity **Aliya Begum<sup>a</sup>**, A.V Aparna<sup>a</sup>, B. Sireesha<sup>b</sup>, Ch. Sarala Devi<sup>b\*</sup> and Pallepogu Raghavaiah<sup>c</sup> Indian Journal of Chemistry,48B, 2009, 1565-1570.
- 3 Spectral and single crystal X- ray diffraction studies of 4-Chloro - N'(2-hydroxybenzylidene) benzohydrazide A. Padmaja, **Aliya Begum**, P.Raghavaiah and Ch. Sarala Devi\*.Indian Journal of Chemistry Vol. 50B, March 2011, pp. 326.
4. A study on chelation and antimicrobial activity of the complexes of 4-amino-5-phenyl-3-mercapto-1,2,4-triazole and its benzylidene derivatives<sup>a</sup>**Alia Begum**,<sup>b</sup>B. Sreedhar, <sup>c</sup>K.Laxmi, <sup>d</sup>P.Mamatha&Ch.Sarala Devi\*, RJPBCS, 2014,5(1), 409.
5. Physico-chemical, computational, antibacterial and DNA cleavage studies of (E)-N-[(3-hydroxy-5-(hydroxyl methyl)-2-methyl pyridine 4-yl)methylene]aceto hydrazone hydrochloride and its copper complex, K. Eshwari, **Aliya Begum**, Sudeepa Kunche, P. Ranjith Reddy, Md. Jaheer, P. Harilatha Reddy and Ch.Sarala Devi\*J. Indian Chem. Soc.94, January 2017, pp 67-77.

### (4). Lectures/Seminars/Symposia/Conferences attended/conducted

S.No	Lecture/Seminar/Symposia/Conferences/Courses	Place	Duration	Nature of participation
1.	Recent trends in Chemistry	OUCW, Hyderabad	15 <sup>th</sup> March 2003.	Organizing committee member
2.	Chemiluminiscence	St. Ann's College for Women	24 <sup>th</sup> and 25 <sup>th</sup> Aug. 2005	Participant
3.	Open House Exhibition	OUCW, Hyderabad	March 2005	Organizing committee member

4.	Frontiers in Chemistry.	OUCW, Hyderabad	8 <sup>th</sup> and 9 <sup>th</sup> Feb. 2006	Organizing committee member
5.	Chemistry classical and modern approach	OUCW, Hyderabad	19 <sup>th</sup> and 20 <sup>th</sup> Jan. 2007	Organizing committee member
6.	<b>National Symposium</b> on “Chemistry – Technology Interface: A Synergistic Approach”.	30 <sup>th</sup> Sep to 2 <sup>nd</sup> Oct 2007 Dept. of Chemistry , Nizam College and University College of Technology, O.U, Hyd.	30 <sup>th</sup> Sep.- 2 <sup>nd</sup> Oct. 2007	Presented posters
7.	<b>Workshop</b> on “Conventional and current approaches in chemical analysis”.	OUCW, Hyderabad	18 <sup>th</sup> and 19 <sup>th</sup> Aug. 2008	Organizing committee member
8.	Spectroscopy	Reddy Women’s College	20 <sup>th</sup> and 21 <sup>st</sup> Aug. 2008	Participant
9.	<b>National Conference</b> on “Recent Advances in Chemical Research (NCRACR)”.	University College of Science	6 <sup>th</sup> and 7 <sup>th</sup> Feb. 2009	Participant
10.	<b>National Conference</b> on “Emerging advances in chemistry”.	Gayatri Vidya Parishad Visakhapatnam	14 <sup>th</sup> and 15 <sup>th</sup> Nov. 2009	Presented paper
11.	<b>National Seminar</b> on “New Dimensions in Chemical Sciences”(NDCS-2010).	P.G College of Science, Saifabad O.U	30 <sup>th</sup> Jan. 2010	Presented posters

12.	“Discover Yourself”	A. W. Sadathulla Khan	26 <sup>th</sup> , 27 <sup>th</sup> and 28 <sup>th</sup> Nov. 2010	Participant
13.	RTPC-2011 <b>National seminar</b> on “Recent trends in Pharmaceutical Chemistry”.	Krishna University  Machlipatnam	30-31 <sup>st</sup> Jan. 2011	Presented paper
14.	“Two day <b>workshop</b> for Chemistry PG teachers”.	Reddy Women’s College	18-19 <sup>th</sup> Feb. 2011	Participant
15.	UGC-sponsored one day <b>seminar</b> “Chemistry and energy: present and future scenario”.	OUCW, Hyderabad	22 <sup>nd</sup> March 2011	Organizing committee member
16.	<b>National seminar</b> on “Recent Advances in Heterocyclic Chemistry” (NCRAHC-2011).	JNTUH College of Engineering  Kukatpally	4 <sup>th</sup> & 5 <sup>th</sup> Nov. 2011	Presented paper
17.	3-D Chemistry: A one day <b>workshop</b> for teachers	OUCW, Hyderabad	23 <sup>rd</sup> Dec. 2011	Organizing committee member
18.	Indian Council of Chemists  30 <sup>th</sup> <b>Annual Conference</b>	University College of Science	28 <sup>th</sup> -30 <sup>th</sup> Dec. 2011	Participant
19.	“Modern Chemistry & Biology”-Two day <b>workshop</b> sponsored by IAS, INSA & NAS.	Indian Institute of Chemical Technology(IICT )	16 <sup>th</sup> & 17 <sup>th</sup> March 2012	Participant
20.	<b>Seminar</b> on “Spectro-Analytical techniques”	Reddy Women’s College	28 <sup>th</sup> Feb.2013	Participant

	One day <b>Workshop</b> on STEREOCHEMISTRY	St. Ann's College for women(P.G. Centre)	21 <sup>st</sup> – September 2013	Guided students for molecular model programme and won the first prize.
21.	Guest lecture on the topic “An Overview of Total Fluoride Analysis”	University College of Science, OU	3 <sup>rd</sup> December, 2013	Participant
22.	<b>Workshop</b> on “Application of Software in Molecular modelling and structural elucidation of molecules”	OUCW, Hyderabad	One day-2 <sup>nd</sup> August 2013	Organizing committee member
23.	Skill development program on Leadership	RDCC, OU	6 <sup>th</sup> Feb 2014	Participant
24.	One day -Seminar on“X-ray Diffraction: Key to Crystallographic Studies”	OUCW, Hyderabad	One day-15 <sup>th</sup> March 2014	Organizing committee member
25.	Meet “ACADEMIA EXPLORES-UNIVERSITY INDUSTRY SYNERGY”	OUCW, Hyderabad	2 <sup>nd</sup> April 2014	Organizing committee member
26.	<b>International Symposium</b> on Nature inspired initiatives in Chemical trends(NIICT)	CSIR-IICT, Hyd.	2 <sup>nd</sup> -5 <sup>th</sup> March 2014	Participant
27.	<b>Induction Programme</b> for University teachers	OU	20 <sup>th</sup> and 21 <sup>st</sup> June 2014	Participant
28.	<b>Seminar</b> on Industry-Academia Interface	RDCC, OU	6 <sup>th</sup> Aug. 2014	Participant

29.	“ <b>National seminar</b> on “Recent Advances in Chemistry (RAC – 2015”.	Kakatiya University	30-31 <sup>st</sup> March 2015	Presented paper
30.	<b>Seminar</b> on Recent trends in chemical sciences	Dept of Chemistry, OU	27 <sup>th</sup> Aug 2015	Participant
31.	CBCS: Quality Sustenance and Standardization of Examinations	UCW	31 <sup>st</sup> March & 1 <sup>st</sup> April 2016	Organizing committee member
32.	Dr. M.A. Majeed Khan memorial lecture entitled: Pursuit of Excellence in an Inequitable World	Mufakham Jah Engineering College	26 <sup>th</sup> May 2016	Participant
33.	One day <b>seminar</b> on “Green and sustainable Chemistry”	UCW	1 <sup>st</sup> Sep 2016	Organising secretary
34.	Indian council of chemists-35 <sup>th</sup> Annual National Conference	Pune	22 <sup>nd</sup> -24 <sup>th</sup> Dec	Presented poster & paper
35.	Science fair academy Hyderabad	Hyderabad	23 <sup>th</sup> Jan 2017	Judge
36.	Green Chemistry <b>Seminar</b> -Anwar-Uloom	Hyderabad		Presented poster
37.	Guest lecture on “Principles of Stereochemistry by Prof. Kondal Reddy”	Nizam College	17 <sup>th</sup> August 2017	Participant
38.	Guest lecture on Importance of Scientific Research: A Necessity for advancing Nation by Dr. Qazi S Azher, Michigan state University	UCW	25 <sup>th</sup> Oct-2017	Organized
39.	Guest lecture on Supramolecular Chemistry by Dr. Narahari Sastri	UCW	6 <sup>th</sup> Nov 2017	Organized

40.	Two day National Workshop on Perspectives in Chemistry & Allied subject Practicals for UG teachers(PCAPUT-2018)	UCW	28-29 <sup>th</sup> March 2018	Organising secretary
	Computer aided drug design-Molecular docking studies, the practical aspects by Dr. Sree Kanth, Nizam College.	UCW	7 <sup>th</sup> April, 2018	Organised
41.	ICFAI Business school-Faculty knowledge sharing program	IBS Hyderabad	21 <sup>st</sup> July 2018	Participant
42.	UGC Orientation <b>workshop</b> on “Adoption, Promotion and Production of MOOCS for SWAYAM platform”	Maulana Azad National Urdu University	31 <sup>st</sup> August 2018	Participant
43.	National <b>Seminar</b> on “Frontiers in Chemical sciences	Palmuru University	15 <sup>th</sup> September 2018	Presented posters
44.	Regional Science fair	Osmania University	13 <sup>th</sup> October 2018	Participated as Judge
45.	International <b>symposium</b> on Recent trends in Chemical Biology	RDCC, OU	28 <sup>th</sup> Nov 2018	Participant
46.	International Conference on “Emerging trends in spectroscopic techniques and their applications”	UCW	3 <sup>rd</sup> -4 <sup>th</sup> Dec 2018	Organizing committee member
47.	Skill development certificate courses	UCW	31 Jan to 2 <sup>nd</sup> Feb 2019	Co-ordinator
48.	Lecture on “Is chemistry future ready” by Prof. Goverdhan Mehta	UCS	30 <sup>th</sup> April	Participant

#### (5). Posters/papers presented

- Participated in poster presentation – Spectral and Equilibrium Studies on some new derivatives of 4-Amino-5-phenyl-3-mercapto- 1,2,4-triazole : **Aliya Begum**, B.Sireesha,



A.V.Aparna, Ch.Sarala Devi\* during the **National Symposium** on “Chemistry – Technology Interface : A Synergistic Approach” held from 30<sup>th</sup> September to 2<sup>nd</sup> October 2007 at Nizam College, Hyderabad

- Participated in poster presentation – A Study on single crystal of 4-(4'-methyl)benzylidene amino-5-phenyl-3-mercapto-1,2,4-triazole : **Aliya Begum**, B.Sireesha, A.Padmaja, Pallepogu Raghavaiah, Ch.Sarala Devi\* during the **National Symposium** on “Chemistry – Technology Interface : A Synergistic Approach” held from 30<sup>th</sup> September to 2<sup>nd</sup> October 2007 at Nizam College, Hyderabad.
- Participated in poster presentation - Spectral And Single Crystal X – Ray Diffraction Studies on 4 – Chloro Aroyl Salicylaldehyde Hydrazone : A.Padmaja, **Aliya Begum**, Pallepogu Raghavaiah, Ch.Sarala Devi\* during the **National Conference** on “Recent Advances in Chemical Research (NCRACR – 2009)”
- Participated in paper presentation- Equilibrium and Spectro-analytical studies of 4-amino-5-phenyl-3-mercapto-1,2,4-triazole metal complexes : **Aliya Begum**, Ch.Sarala Devi\*, Rafeeq Mohiuddin & K.Eshwari during **National Conference** on “Emerging advances in chemistry” 14<sup>th</sup> & 15<sup>th</sup> Nov 2009, , jointly organized by Gayatri Vidya Parishad(Visakhapatnam) and Indian Association of Chemistry Teachers(IACT).
- Participated in paper presentation- A study on single crystal X-ray diffraction and molecular orbital data of 4-(4'-methoxy) benzylidene amino-5-phenyl-3-mercapto-1,2,4-triazole **Aliya Begum**, Ch.Sarala Devi\*, Rafeeq Mohiuddin & K.Eshwari during **National Conference** on “Emerging advances in chemistry” 14<sup>th</sup> & 15<sup>th</sup> Nov 2009, , jointly organized by Gayatri Vidya Parishad(Visakhapatnam) and Indian Association of Chemistry Teachers(IACT).
- Participated in poster presentation- Semi-Empirical Studies of Biologically active 5-substituted-2-amino-1,3,5-thiadiazoles :Firasat Unnisa, D.A. Padmavathi, **Aliya Begum**, Ch.Sarala Devi and B.Sireesha during the **National Seminar** on “New Dimensions in Chemical Sciences (NDCS – 2010) held on 30<sup>th</sup> Jan 2010.”
- Participated in poster presentation- Spectro-analytical, Computational and microbial studies of 4-(2'-hydroxy) benzylidene amino-5-phenyl-3-mercapto-1,2,4-triazole :**Aliya Begum**, B.Sireesha D.A. Padmavathi, Ch.Sarala Devi\* during the **National Seminar** on “New Dimensions in Chemical Sciences (NDCS – 2010) held on 30<sup>th</sup> Jan 2010.”

- Participated in paper presentation- Synthesis, Characterisation and Anti bacterial studies of certain oxazolinones : Ameena, **Aliya**, B. Sireesha, P.Leelavathi and Ch. Sarala Devi\* during the “**National seminar** organized by Department of Chemistry, Krishna University (RTPC- 2011) held on 30-31<sup>st</sup> Jan 2011”.
- Participated in poster presentation- Spectro-analytical and antibacterial studies on transition metal complexes of mercapto triazole derivatives : **Aliya Begum**, G. Bhargavi, M.Ravi and Ch.Sarala Devi\* during the **National Seminar** on “Recent Advances in Heterocyclic Chemistry (NHRAHC – 2011) held on 4<sup>th</sup> and 5<sup>th</sup> Nov. 2011.”
- Participated in paper presentation- Physico - chemical and computational, antibacterial and DNA cleavage Studies of Acetic acid 2-[(3-hydroxy-5-(hydroxyl methyl)-2-methyl-4-pyridinyl] methylene] hydrazone and its copper complex: K. Eishwari, Md. Jaheer, P. Ranjeet Reddy, B. Aparna, **Aliya Begum**, A. Padmaja and Ch. Sarala Devi\* during the “**National seminar** on “Recent Advances in Chemistry (RAC – 2015 on 30-31<sup>st</sup> March 2015”.
- Participated in poster presentation- Conventional and green synthesis of mercapto triazoles coupled with azlactone, characterization and evaluation of anti microbial studies: **Aliya Begum**, Mamtha P. , Ameena Husain, S. Shahjahan and Ch.Sarala Devi\* during 35<sup>th</sup> **annual national conference** held on 22<sup>nd</sup> to 24<sup>th</sup> Dec 2016 at Pune.
- Participated in poster presentation- Molecular structure and co-ordination properties of triazole derivative S. Shahjahan, Ameena Husain, **Aliya Begum** and Ch.Sarala Devi\* during the **National Symposium** on “Recent trends in green chemistry and technology (RTGCT–) held on 27<sup>th</sup> and 28<sup>th</sup> Feb 2017 at Anwarul Uloom College, Hyderabad.
- Participated in poster presentation- Drug design approaches: Molecular modeling studies of tetrazole and its metal complexes: Ameena Husain, P. Sateesh, Aliya Begum and Ch. Sarala Devi\* during **National Seminar** on “Frontiers in Chemical sciences 15th September 2018 at Palmuru University.
- Participated in poster presentation-: DNA Docking studies of 1,2,4-triazole derivative and its Cu and Mn metal complexes: S. Shahjahan<sup>a</sup>, S. SreeKanth<sup>c</sup>, Aliya Begum<sup>b</sup> and Ch. Sarala Devi\* during **National Seminar** on “Frontiers in Chemical sciences 15th September 2018 at Palmuru University.

#### (6).Ph.D Scholar’s Registration

S.No	Name of the student	Date of Registration	Title of the thesis work
1.	P. Sateesh Kumar	16-03-2017	Conventional and green synthesis of azomethine containing amsacrine derivatives: Characterisation and evaluation of biological studies
2.	Md. Farveen	19-09-2018	Conventional and Green synthetic methods, Anti-microbial activity and assay of mercapto triazoles having $\beta$ -lactam ring
3.	B. Rajitha	12-09-2018	Synthesis of biodynamic novel heterocyclics and evaluation of their anti cancer, anti alzheimer and anti microbial studies
4.	G. Sreelatha	20-09-2018	Synthesis and biological evaluation of novel Heterocyclic compounds
5.	Hymavathi	27-12-2018	An investigation on intensification of solubility and bioavailability of BCS drugs

### 7. Guest Speaker

Topic	Center	Year
Symmetry of organic molecules	Anwar –uloom PG centre, Hyderabad	Nov 2010
Spectroscopy of organic molecules	Royale degree college, Hyderabad	12 <sup>th</sup> Jan 2016
Environmentally Benign Chemical Synthesis	Madina Degree & PG College	19 <sup>th</sup> September 2018

### 8. Other Academic Experiences:

- **External and Internal** practical examiner for **U.G. & P.G.**

- **Examiner** for **U.G. and P.G.** theory valuation.
- **Student's advisor**, UCW
- **Member** of Anti ragging Committee, UCW.
- **Scrutiny work** in the Examination branch, UCW.
- **Member** of **books purchasing** Committee, Dept. of Chemistry, UCW.
- **Member** of **Chemicals purchasing** Committee, Dept. of Chemistry, UCW.
- **Member** of Admission Committee, UCW.
- **Member** of Hospitality Committee, UCW.
- **Judge** for many Cultural activities at UCW.
- **Member**, Board of studies(BOS), Dept of Chemistry, UCW since 2016
- Member, Board of Studies, Dept. of Chemistry, St .Anns College since 2017
- **Co-ordinator** for skill development and career oriented courses , UCW
- **Member** of Research and development Committee, UCW,2019
- Student counselor,UCW, 2019
- **Member** of website committee, 2019

## **9. Membership of Academic and Other Bodies:**

### **Life/Annual Membership**

- Association of Chemistry Teachers (ACT) Mumbai (LM 664)
- Janseva Co-operative credit society Ltd.
- Indian Council of Chemists(ICC)
- Indian Science Congress(ISC)