
CURRICULUM-VITAE OF PROF. DR. AAMER SAEED

Dr. Aamer Saeed Bhatti, FRSC**Chairman & Professor (tenured) of Chemistry, Quaid-I-Azam University, Islamabad-45320, Pakistan.****E-mail: aamersaeed@yahoo.com , asaheed@qau.edu.pk****Permanent Address: House No. 1885, St. 27, I-10/2 Islamabad, Pakistan.****Telephone Nos. Res. (051) 4430479; Cell: 0321-5333026, Off. (051) 9064-2128, Fax: (051) 9064-2241****ORCID: <http://orcid.org/0000-0002-7112-9296>****PCST: Sci. ID: 2365****Web of Knowledge Researcher ID: D-6610-2014****Scopus - Author ID: 56473334500**

- **Fellow Royal Society of Chemistry FRSC (UK) (2022)**
- **Gold Medal PAS 2003), Dr. M. Razziuddin Siddiqi Prize in Chemistry**
- **Gold Medal, Idara-e-Farough Taleem, Punjab Lahore) (2015)**
- **World's Top 2% Scientists list (2020) by Stanford University**
 - **<https://tribune.com.pk/story/2273198/81-pakistanis-among-worlds-top-2-scientists>**
- **Highly cited scientists of Pakistani Universities (Ranking list published by Elsevier, 2021) Elsevier BV - August 2021 data-update for "Updated science-wide author databases of standardized citation indicators" (digitalcommonsdata.com)**
<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3>
- **World's Top 2% Scientists (2022 Stanford University & Elsevier) "Updated science-wide author databases of standardized citation indicators."https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4**
- **RPA awardees from 2004-2017 in category: A by PCST.**
- **Alexander von Humboldt Post-Doctoral Fellow Germany (2001, 2019)**
- **Fellow Royal Society of Chemistry (2022)**
- **Fellow of the Chemical Society of Pakistan**
- **Fellow Pakistan Academy of Sciences (2020),**
- **Highest Impact Factor Award 2018, Chemical Society of Pakistan.**
- **TWAS Visiting Expert Award**
- **Certificate of Outstanding Research University Hannover 2019.**
- **Ranked 2nd in Chemistry in Pakistan (RPA List, PCST, 2009; RPA award: Category A-1).**
- **Ranked 3rd in Chemistry in Pakistan (RPA List, PCST, 2015; RPA award: Category A-1).**
- **Ranked 4th in Chemistry in Pakistan (RPA List, PCST, 2016; RPA award: Category A-1).**
- **Ranked 3rd in Chemistry in Pakistan (RPA List, PCST, 2017; RPA award: Category A-1).**
- **Associate Editor: Frontiers in Chemistry (Impact factor 5.221, Q2): Chemical Insights into the Synthetic Chemistry of Quinazolines and Quinazolinones: Recent Advances (2019, 2021).**
- **Associate Editor: Journal Exploration of Drug Science Open Exploration Publishing Inc.**
- **Edited book: "Recent Advances in Industrial Biochemistry" Springer Nature Switzerland AG**
- **Top cited article award 2020-2021 (Wiley Publisher)**

• **Publications: 620 Impact Factor: 3500**

• **Total citations: >11000 H-index 45 (Google Scholar).**

• **Total citations: >9000 H-index 41 (Scopus).**

➤ **Ph D supervised: 23 M.Phil. Supervised: 70**

➤ **M. Phil co-supervised; 04**

➤ **Patents: International: (07) National: (02)**

➤ **Book Chapters (11 Published by International publishers, 08 submitted)**

➤ **Books (02 published by National publishers)**

➤ **Research grants as Principal Investigator: URF (12), HEC (02), PSF (01), PAK-US (01), Nescom (1)**

➤ **Merit scholarship from F.Sc. to Ph.D**

➤ **Administrative Experience:**

- i) **Head of Organic Chemistry, department of Chemistry, Quaid-I-Azam University (04 years)**
- ii) **Chairman department of Chemistry, Quaid-I-Azam University, since September 2021**

PERSONAL BIO-DATA

Pakistani National, NIC No.37301-2225442-3, born 10th September 1964 Jhelum (Punjab)

Academic & Research Record:

***Ph. D (Organic Chemistry) 1994, (Grade A, GPA 4.3, Comprehensive exam.)** Thesis title: “*Synthesis of Some Naturally Occurring Isocoumarins, Dihydroisocoumarins and Isochromans*” Supervisor: Prof. Dr. Nasim H. Rama, Department of Chemistry Quaid-I-Azam University Islamabad, Pakistan. (Feb1989 to July 1994). (N.S.R.D.B.+ PSF Projects)

***M. Phil (Organic Chemistry) 1988, (Grade A, GPA 4.0),** Thesis entitled “*A Synthetic approach towards the Isochroman System: (±)-6,8-Dihydroxy-3-isopropyl-7-methylisochroman*” (related to the fungal metabolite Rotiorin. Supervisor: Prof. Dr. Nasim H. Rama (Jan. 1987 to Feb. 1989) (N.S.R.D.B.+U.R.F. Projects)

***M. Sc (Organic Chemistry) 1986, (Grade B, GPA 3.7),** Thesis titled “*A chemical Investigation of Ipomoea carnea Jacq.*” (June to Dec 1986) Supervisor: Prof. Dr. Mrs. Naeema Khan, Department of Chemistry Quaid-I-Azam University Islamabad, Pakistan.

***Post-Doctoral Research: 26th July 1994-25th July 1995, "Total Synthesis of Feralolide"** Department of Chemistry Quaid-I-Azam University Islamabad, Pakistan.

***Alexander Von Humboldt, Post-Doctoral Fellowship Germany (2001 & 2020):** Awarded the prestigious **Alexander von Humboldt Foundation** Post-Doctoral Fellowship Germany, at Institute für Organische Chemie, Universität Hannover, Schneiderberg 1B, 30167 Hannover, Germany. Supervisor: **Prof. Dr. Markus Kalesse**

Research Projects during AvH :

***First Total Synthesis of a Potent Cytotoxic, Antitumor Polyketide: *Ratjadone*, its diastereomers, analogs and comprehensive determination of Structure Activity Relationship.**

***New Total Synthesis of potent cytotoxic anticancer polyketide: *Callystatin A*. (Synthetic *Ratjadone* is available as an anticancer drug by Novartis Switzerland)**

***Towards the Total Synthesis of Meridamycin.**

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Fields of Research interest:

- **Synthetic Bioorganic and Medicinal Chemistry; Natural Products, Heterocyclic Chemistry**
- Stereoselective/ total synthesis of bioactive Natural Products; Antitumor Polyketides: Callystatin, Ratjadone; Isocoumarins, Dihydroisocoumarins and their nitrogen, sulfur analogues.
- Acyl thioureas: Synthesis, biological evaluation, heterocyclization, QSAR, vibrational, DFT studies of diverse
- Design, Synthesis bioevaluation, chemo-informatics, binding analysis, Molecular docking, pharmacokinetics of Novel Nitrogen Sulphur heterocycles, bisheterocycles; Isochromanyl and coumarinyl heterocycles using hybrid pharmacophore approach.
- Carbazole, Fluorene and Perylene Based Materials for Organic Electronic Applications OLEDs
- Synthesis and absorption, emission, and electrochemical studies of Fluorescent and other dyes: new Rylene and Rylene azo-hybrid, Porphyrin, Xanthene, Anthocyanin, Triarylmethane; Aggregate Induced Emission
- One pot Multi Component Reactions, Microwave Assisted Synthesis, Aqueous Synthesis, Mechanochemical Synthesis as a part of environment friendly Green Chemistry.
- Discovered several small & hybrid molecules as Enzyme Inhibitors many folds more potent than the standard drugs.
- Development of novel drugs against MDR Gram-negative pathogens and investigation of structure-transport relationships
- In vivo Cancer probes for bio imaging, Ions sensors, AIE materials, DSSC materials

(Government Service Record):

S. No	Designation	Institution	From	To
1.	Professor (TTS-21)	Quaid-i-Azam University Islamabad	11-12-2012	date
2.	Associate Professor (BPS-20)	Quaid-i-Azam University Islamabad.	31-05-2008	11-12-2012
3	Assistant Professor* (BPS-19)	Quaid-i-Azam University Islamabad	10-08-2002	31-05-08
4	Associate Professor (BPS-19)	G.C. University Lahore.	01-10-2001	09-08-2002
5	Alexander von Humboldt Post-doctoral fellowship	Hannover University, Schneiderberg, Germany	02-08-2000	30-09-2001
6.	Associate Professor (BPS-19)	G.C. University Lahore.	01-10-2001	09-08-2002
7	Associate Professor* (BPS-19)	Govt. Post Graduate College Rabwah (Chenab Nagar) Faisalabad	29-05-1999	01-08-2000
8	Assistant Professor (BPS-18)	Govt. Degree College G.T. Road, Jhelum	21-12-1994	28-05-1999

9	Lecturer (BPS-17)	Federal Govt. Boys College Sihala, Islamabad.	15-10-1990 1994	20-12-
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- ❖ Selected by **FPSC** as Lecturer for Islamabad Colleges & first Govt. service joined on **15-10-1990**.
- ❖ Selected directly as **Assistant Professor** (1994) and **Associate Professor** (1998) by **PPSC**.
- ❖ Sacrificed the Associate Professorship and joined the Quaid-I-Azam University, Islamabad as Assistant Professor due to profound interest in research. Total Teaching/ Research Experience: ca 32 Years

SCHOLARSHIPS, HONOURS & AWARDS:

- ✓ **Alexander von Humboldt** scholarship for German language Course, **Goethe Institute Göttingen**, Germany.
- ✓ **Alexander von Humboldt, Post-Doctoral Fellowship** Germany.
- ✚ **Recipient of Research Productivity Allowance 2004-2011 and Research Productivity Allowance (2011-2018) Category A**, by **Pakistan Council for Science and Technology (PCST)**.
- ✚ **Innovation Award, (Invention to Innovation Summit March 19-20, 2015)**, **Punjab University Lahore**
- ✚ **Working on University Industry Research cooperation program (IRP) of HEC**

Books

1. Compiled the *Anthologia Series of General Knowledge. Informa-1*
2. Permanent Writer of National Urdu Monthlies: *Science Digest* and *Global Science* Karachi.
3. **Chief Patron: "Scientific Pakistanis"**.

MEMBERSHIPS/ FELLOWSHIPS

1. Fellow Royal Society of Chemistry (2022)
2. Fellow of the Chemical Society of Pakistan.
Member Royal Society of Chemistry (2022)
3. The Chemical Society of Pakistan (lifetime).
4. American Association for Advancement of Science (AAAS)
5. Humboldt Forum & German Alumni Forum Islamabad, Pakistan
6. Member, Curriculum Committee, National Testing Service Pakistan

Trainings Received:

1. ***In Service Teacher's Training Course in Chemistry***, December 02-21, 1995, at Directorate of Staff Development Punjab, Lahore.
2. **Lecture Course:**

One and Two- Dimensional NMR Methods for Structure Elucidation of Organic Compounds and Natural Products, by Prof. Dr. Helmut Duddeck, August 14-16, 2001, Institute für Organische Chemie, Universität Hannover, Germany.

3. **National Training Course**

Online and Off-Line Information Resources in Chemical Sciences April 4-7, 2005, HEJ/ICCCS, Karachi.

4. **NMR Winter School, Japan**

JASS'03–Winter School on NMR Spectroscopy at the Frontier of Progress in the Life Sciences, January 19-31, 2004, Institute for Protein Research, Osaka University, Osaka, Japan.

CREST- IPR International Symposium, Frontier of Biological NMR spectroscopy, Science Hall, Life Science Centre (Senri-Chuo Toyonaka) January 26-27, 2004, Osaka, Japan.

5. **Training Workshop, Bangkok**

The Chemical Safety and Security Training Workshop, Bangkok, 24-25 June 2008

Thailand, Organized by Sandia National Laboratories, USA.

6. **HEC, National Academy of Higher Education**, Certificate of Professional Development (Incorporating Technology in Education (ITE) 29-12-2012 to 13-01-2013.
7. **TWAS Visiting Expert (February 23-March 05, 2017) at National University of La Plata, Argentina.**

Computer Courses:

Microsoft Word Processing Course 14th - 29th April 2004, at *Pakistan Computer Bureau* Islamabad (Grade A)

*MS Office; MS Word, *CW III, *Windows 11; Fortran Language Course, ChemBioDraw Ultra *BioRad Merlin (FTIR); Topspin (NMR)

International Research Collaborations:

Collaboration for chemical & biological screening programs: **DuPont Agricultural Products**, Newark, DE USA, **Merck Research Laboratories USA**, **Spec Chem**, The Netherlands, **BASF** Germany

Courses/ practical at BS Level

1. Organic Chemistry Laboratory CH-393
2. Stereochemistry CH-429

Courses/ practical at BS/ M.Sc. Level

1. Stereochemistry CH-445
2. Biochemistry CH-470
3. Spectroscopic Methods in Organic Chemistry-I CH-442
4. Spectroscopic Methods in Organic Chemistry-II CH-375
5. Organic Synthesis, Disconnection Approach CH-446
6. Named Reactions in Organic Chemistry CH-471
7. Chemistry of Natural products CH-453
9. Basic Organic Chemistry I CH-341
10. Heterocyclic chemistry CH-440
11. Basic Organic Chemistry II CH-343
12. Organic Chemistry Laboratory I CH-341
13. Organic Chemistry Lab II CH-334
14. Organic Chemistry Laboratory III CH-447
15. Advanced Org. Chemistry Lab IV CH-449
16. Basic Organic Chemistry II CH-341

Courses taught M.Phil. Level

1. Chemistry of Isoprenoids CH-645
2. Advanced Heterocyclic chemistry CH-650
3. Advanced Stereoselective Synthesis CH-658
4. Advanced Stereochemistry CH-641
5. Organic Synthesis-Retrosynthetic Approach CH-640
6. Named Organic Reactions CH-637

RESEARCH PROJECTS

S. No.	Title of Project	Funding Agency	Date/Duration
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As Research Officer:

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|------|--|--------|----------------------------|
| i. | Various Synthetic Approaches towards (±)-6,8-Dihydroxy-3-isopropyl-7-methyl-isochroman as Potential Pharmaceuticals. | NSRD | 1989-92
Board (3 years) |
| ii. | Preparation of Various New Isochromans as Potential Pharmaceuticals. | U.G.C. | 1991-92
(1 year) |
| iii. | Synthesis of (±)-6,8-Dihydroxy-1-methylisochroman-3-one and Related Isochromans as Potential Pharmaceuticals. | U.G.C. | 1994-95
(1 year) |

As Principal Investigator:

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|------|--|------------|------------------|
| i. | Synthesis and Bioactivity of Xyridin A and B, metabolites from <i>Xyris indica</i> , | URF | 2002-2003 |
| ii. | A Facile Synthesis of Angiogenesis Inhibitors: Cytogenin (8-hydroxy-3-hydroxymethyl-6-methoxyisocoumarin) and NM-3, Rs. 27,000/-) | URF | 2003-2004 |
| iii | Novel Synthesis and Bioactivity of Some New 1-Aroyl-3-aryl-4-methyl Imidazole-2-thiones, | URF | 2004-2005 |
| iv | Synthesis Characterization of Some 1-Aryl-3-sulfonyl-2-methylimidazole-2-thiones Rs. 45,000/-) | URF | 2005-2006 |
| v | Characterization and Bioactivity of Some New 1-Aroyl-3-(sulfanilamido)-4-methylimidazole-2-thiones | URF | 2006-2007 |
| vii | Synthesis and Characterization of Some Novel 1-(3,5-Dimethyl-1 <i>H</i> -pyrazol-1-yl)-3-(substituted phenylamino)propan-1-ones. (Rs. 55,000/-) | URF | 2008-2009 |
| viii | Novel Carbazole-Pyridine Co-polymers by an Economical Method: Synthesis, Spectroscopic and Thermochemical Studies. (Rs. 75,000/-) | URF | 2009-2010 |
| ix | Synthesis and Characterization of Some Novel Coumarinyl heterocycles (Rs. 69,500/-) | URF | 2010-2011 |
| x | Synthesis and Biological Evaluation of 3-thiazolocoumarinyl Schiff Base Derivatives as Cholinesterase Inhibitors Rs.33,231/= | URF | 2011-2012 |
| xi | Synthesis of Phenols based New Acid Dyes and Their Metalation | URF | 2019-2020 |
| xii | Novel C-2 symmetric Bis-Azo-Azamehine: Synthesis, applications | URF | 2020-2021 |
| i | Stereoselective Total Synthesis of Some Antimalarial, Antituberculous, Antifungal and Cytotoxic Dihydroisocoumarin Metabolites PSF (PSF/RES/C-QU/CHEM(395) Rs. 707,880/-) | | 2008-2009 |
| ii | The First Total Synthesis of the Principal Bioactive Metabolites of <i>Achlys triphylla</i> (HEC 20-Miscel/R&D/00/3834, Rs. 100,880/-). | HEC | 2009-2011 |
| iii | Carbazole & Fluorene-Based Polymeric and Molecular Materials for Optoelectronic Applications-Syntheses, Spectroscopic Studies, Device Fabrication and Characterization (No.4-279/PAK-US/HEC 2010-917, Rs. 8579326.5/-). (Pakistan-US Science & Technology | | |

- Cooperation Program) **PAK-USAID** 2011-2013
- iv) **Symmetrical Novel Probes as Efficient Sensitizers for Solar cells, Synthesis and Studies**
(No. NRPU-I/10579/1122...Rs. 1970345-). **HEC** 2020-2022
- v) Optimization of Curing Time and Mechanical properties of Epoxy /PU and epoxy/phenolic blends for Aerospace Application RACIX 2022
Advance Research Grant against Research Project under RACIX 2022, DoA No. 119/RAC-IX/QAU/2022 **NESCOM Islamabad**. Rs. 0.5 million 2022-2023

Research Supervision M.Phil. Level

1. **Ms Somia Ehsan, Jan. 2003-Feb 2004:** Synthesis of 6-*O*-methylreticulol and (\pm)-Kigelin.
2. **Ms Mahira Batool, Feb 2004-Jan 2005:** Synthesis and bioactivity of Some New 1-Aroyl-3-aryl-4-methylimidazole-2-thiones and their Complexes.
3. **Ms Amara Mumtaz, July 2004-July 2005,** Synthesis Characterization and Bioactivity of 1-Aryl-3-sulfonyl-2-methylimidazole-2-thiones.
4. **Ms. Hummera Rafique, Feb. 2005-July 2006,** Synthesis, Characterization and Bioactivity of some biheterocyclic systems.
5. **Mr. Naeem Abbas, (July 2005-July 2006),** Synthesis Characterization and bioactivity of some 1-Aroyl-3-Aryl-2,5- Thiohydantoin and Iminothiazolidinones
6. **Mr. Muhammad Akram, (Feb. 2006-Jan.2007),** Synthesis and Biological Activity of Some new 3,6-Diaryl-1,2,4-Triazolo[3,4-b]-1,3,4-Thiadiazoles. (Dropped)
7. **Ms Saba Zaman (July 2006-June 2007)** Synthesis and Characterization of Some New 2-Aroylimino-3-Aryl-4-Phenyl-1,3-thiazolines.
8. **Mr. Shahid Hussain, (Feb. 2007-March 2008)** Synthesis and Characterization of Some Novel 1-(*p*-Substituted anilinopropionyl)-3,5-dimethyl pyrazoles and related heterocycles
9. **Ms. Uzma Shaheen (Jan 2008-Jan. 2009)** Synthesis and Characterization of Some Novel Fluorinated *N*-(4-Phenyl-3-arylthiazol-2(3*H*)-ylidene) substituted benzamides and 1-Aryl-2-thioxo-2,3-dihydro-1*H*-quinazolin-4-ones
10. **Ms. Madiha Irfan (July 2008-July 2009)** Synthesis, Characterization and Studies of Some Novel Materials for Organic Electronics.
11. **Ms. Aliya Ibrar (Jan 2009-March 2010),** Synthesis and Characterization of Some Novel Coumarinyl heterocycles.
12. **Ms. Shumyla Bukhari (June 2009- August 2010),** Total Synthesis of (\pm)-Hiburipyrone analogues
13. **Ms Madiha Kazmi (Jan 2010-Jan 2011),** Synthesis and bioassay of Some Novel Carbazole-Based heterocycles.
14. **Mr. Shams-ul-Mehmmud (Jan 2010-July2011),** Synthesis and characterization of some 3-Aryl-2-(*S*-substituted Quinazolin-4-one derivatives
15. **Ms Mubeen Arif (July 2010- July2011)** Synthesis and bioassay of Novel 3-thiazolylcoumarins

- 16. Ms Saira Shabbir (July 2010- July2011)** Synthesis and Characterization of New Iminothiazoline and thiazole derivatives
- 17. Ms Asma Khurshid (Feb 2011- Jan 2012)** Synthesis and Characterization of New N-(4-Acetyl-5-methyl-1,3-oxathiol-2-ylidene)benzamides and 1-(4-aminophenazonlyl)-3-aryl thioureas/benzamides
- 18. Mr. Mudasar Shehzad (Feb 2011-Jan 2012)** Synthesis and Characterization of Novel 3-(2-(substituted Arylideneamino)thiazol-4-yl)-2H-chromen-2-ones, substituted N-(pyridin-4-yl)benzamides and related compounds
- 19. Mr. Ifzan Arshad (July 2011-2012)** Highly efficient one-pot, three component synthesis and characterization of N-phenyl/N-(2,4-dinitrophenyl) 3,5-difunctionalized pyrazoles.
- 20. Ms Saba Ashraf (July 2011-2012)** Facile deposition of hierarchical structures of copper sulfide and a comparative study of coumarinyl and naphthyl thioureas
- 20. Ms Sidra Jamal (Feb 2012- March 2013)** Synthesis of Novel 3-((phenylamino)methyl)-5-((quinolin-8-yloxy)methyl)-1,3,4-oxadiazole-2(3H)-thiones and 1-Aroyl-3-(4-(2-oxo-2H-chromen-3-yl)thiazol-2-yl)thioureas
- 21. Ms Uzma Ilyas (Feb 2012-March 2013)** Synthesis and Characterization of graphene based composite Materials
- 22. Mr. Qasim Ali (Feb 2012- March 2013)** The Total Synthesis of Some Natural products
- 23. Mr. Nasir Siddique (Feb 2013- Mar 2014)** Novel Thiadiazole-Triazine hybrids, thiazolidinones and chalcone-sulfonamide derivatives: Synthesis and characterization
- 24. Ms Noor-ul-Ain (Feb 2013- Mar 2014)** Synthesis of potentially bioactive diverse classes of Heterocycles
- 25. Mr Hamid Aziz (July 2013-August 2014)** Controlled Synthesis, Characterization of Silica Encapsulated Nano Particles and Their Application as Photocatalysts
- 26. Ms Saira Riaz (Feb 2014-2015)** Synthesis of Novel Aroyl thioureas and 3-aryl-4,6,6-trimethyl- 1,6-dihydropyridine-2(3H)-thione derivatives
- 27. Ms Aisha Habib (Feb 2014-2015)** Synthesis and Characterization of New Xanthene and Triarylmethane dyes derivatives
- 28. Mr Babar Shah (August 2014- August 2015)** Synthesis and characterization of azomethine derivatives of sulphanilamide and acetals of poly(vinyl alcohol)
- 29. Ms Rabia Qamar (August 2014- August 2015)** A Study of *in situ* Reactions of Acyl Isothiocyanates with Carbon and Nitrogen Nucleophiles
- 30. Ms Maria Saeed (August 2014-August 2015)** Synthesis of new derivatives of sulfonamide, ciprofloxacin and coumarin for various applications
- 31. Ms Bushra Nazir (Feb 2015-2016)** Synthesis and Characterization of new *N*- and *O*-substituted 1,3,5-triazines, 2-(*N*-substituted amino)benzoxazoles and picric acid-azo derivatives
- 32. Mr Aftab Farid (Feb 2015-2016)** Synthesis and Characterization of new guanidine, thiourea derivatives of Naphthalene and amides of 1,4-bis (1*H*-tetrazole).
- 33. Mr Muhammad Arif (August 2015-2016)** Mono-, di-, poly azo-dyes and polymers as Sensitive and Selective metal ions Detection Probes: Synthesis and optical studies

- 34. Ms Tanzeela Abdelfattah (August 2015-2016)** Novel hybrids of 4-aminocoumarin, ibuprofen and ferrocene: synthesis, Characterization and bioevaluation
- 35. Mr Fayaz Ali Larik (Jan 2016-March-2017)** *N*-(1-(4-(benzylideneamino)-5-mercapto-1,2,4-triazol-3-yl)-2-phenylethyl)benzamides, 5-amino-1,3,4-thiadiazole derivatives of drugs, 1-acyl-3-arylthioureas and 3,4-dihydropyrimidine-2-thiones: Synthesis, enzyme inhibition, kinetic and molecular docking studies
- 36. Mr Danish Shahzad (Jan 2016- March-2017)** Synthesis, Characterization of 1,4-Dihydropyridine Derivatives and Novel Azo Based Chemosensors and their Metal Complexes
- 37. Mr. Atteque Ahmed (Jul 2016-July 17)** Design, Synthesis and Characterization of Novel Diazo Dyes, Sulfonamide and Thiourea Derivatives
- 38. Mr. Sajid-ur-Rehman (Jul 2016-July 17)** New 2-Acylimino-3-Aryl-4-Methyl-1,3-Thiazolines by cyclization of 1-Acyl-3-Arylthioureas; Design, synthesis and characterization.
- 39. Ms Samina Rasheed (Feb 2017-Jan 2018)** Design, synthesis and characterization of new aroyl thioureas, iminothiazolidinones, azo-iminothiazoles and azo-thiohydantoin for various applications
- 40. Ms Sara Ilyas (July 2017- Jan 2018)** New aroyl thioureas as a precursor to heterocycles and sulfanilamide azamethine derivatives: Design, synthesis, and characterization.
- 41. Mr. Naeem Mustafa (Jul 2017- 2018)** Synthesis and Characterization of Novel oleyl-stilbene optical brightening agents, Quinazolinyl-iminothiazoline and Quinolinyli-triazole conjugates
- 42. Mr. M. Zainul Abideen (Jul 2017- 2018)** New 5-nitro-2-aryl benzimidazole, 1-aryl-3-alkyl/acyl-dihydropyrimidin-2-ones and 5-(substituted benzylidene)pyrimidine-2,4,6-triones: Synthesis and Characterization
- 44. Ms Sadia Naseem (Feb 2018-December 2018)** 3-Arylthiazolo[4,5-c]isoxazol-5-yl)amino)benzene-, (7-Aryl-5-thioxo-5,6-dihydrothiazolo[4,5-d]pyrimidin-2-yl)amino)benzene-, 4-((5-Oxo-7-aryl-5,6-dihydrothiazolo[4,5-d]pyrimidin-2-yl)amino)benzene sulfonamides and 1-acyl-3-(5-(4-bromophenyl)thiazol-2-yl)thioureas
- 45. Ms Memona Javed (Feb 2018-June 2019)** Novel (1-benzyl-5-chloro-3-(2-heteroarylhydrazono)indolin-2-ones and Schiff base-Thiazole Hybrids: Design, Synthesis and characterization
- 46. Ms Aksa Khalid (Feb 2018- June 2019)** Design, synthesis and characterization of novel 1-acyl-3-aryl/heteroarylthiourea, thiourea-pyrimidine-2-thione and thiourea-isoxazole conjugates
- 47. Ms Grana Nosheen (September 2018-Dec 2019):** New Biphenyloxymethyl oxazole-2-thione, Biphenyloxymethyl-Azomethine hybrids and 5-bromo-2-hydroxyphenylthiazolyl thioureas: Design, Synthesis and Characterization
- 48. Ms Nimra Kiyani (Sep 2018- Sep 2019)** Molecular design and synthesis of New 7-5-aryl-1,3,4-oxadiazolyl)methoxy)- & 7-arylaminoacetyl linked coumarins and 2-acyliminothiazolidines derivatives
- 49. Mr Imran Shafique (Feb 2019- Mar 20)** Synthesis and Characterization of innovative Nimesulide-thiazol-2-imine and 6-bromo-chromene-oxadiazole conjugates

- 50. Ms Ume Farwa (Feb 2019- Mar 20)** Novel 3-Amino-4-arylaminoisocoumarin analogues; iminothiazole and guanidine derivatives of 3-bromosulfanilamide: Design, synthesis and characterization.
- 51. Ms Urage Zahra (July 2019- 2020)** Construction of phenolic thioureas and iminothiazolines and One Pot, synthesis of 2-(3-amino-5-aryl)-1,2,4-triazolylacetic acids in aqueous medium
- 52. Ms Zara Tariq (July 2019- 2020)** *N*-(Adamantanyl)-2-arylhydrazono-3-oxobutanamides and 3-(1-arylphthalazinyl) oxymethylcoumarins: Design, synthesis, and Characterization.
- 53. Ms Sama Urooj (Jan 2020- 2021)** NIR Symmetric/unsymmetric Luminophores Synthesis and role in DSSCs Sensitization and Synthesis of 3-Thiazolylcoumarin-Azamethine conjugates
- 54. Mr Lutfullah (Jan 2020- 2021)** Novel Thianaphthene-Thiazole Hybrids and Polyfluorinated Iminothiazolines: Design, Synthesis, and characterization
- 55. Mr Arslan Rahat (Sep 2020-2021)** Preparation of Cyclohexane Bearing Heterocycles and Long Chain Thioureas for Various Applications
- 56. Ms Qurataulain (Sep 2020-2021)** Design, Synthesis of Phenoxyethylcoumarin Clubbed 4-Arylthiazolylhydrazines and Methylsulfonamidophenyl Linked Aryl-Oxadiazolylthioacetamides for Prospective Biological Purposes
- 57. Mr Umair Rauf (Sep 2020- 2021)** Novel Substituted Benzylideneacetohydrazide- and *N*-Aroylaminothiophenyl Connected Imidazoisoquinolinone for Bioevaluation
- 58. Mr Anees Babar (February 2021-May22)** Design, synthesis, and characterization of new pivaloyl-iminothiazolines, benzothiophene-oxadiazoles and triazole-amide conjugates as prospective bioactive agents
- 59. Ms Shamool Fatima (February 2021 -May 22)** Preparation and characterization of novel thiazole linked naphthocoumarins, triazoles and dihydropyrazoles for various applications
- 60. Mr Arsalan Saleem (February 2021- May 22)** Azo- and Azamethine-based aggregation-induced emission Luminophores: Design, Synthesis, characterization and Studies.
- 61. Ms. Faiza Younas (February 2021- May 22)** Pristine, centrosymmetric *p, p'*-bis(benzoylthiourea) biphenyls, their Cu(II), Ni(II) and Co(II) Complexes, and Cyclization with Thiosemicarbazide: design, synthesis and characterization.
- 62. Ms. Fatima tu-Zahra (August 2021-May 22)** Amantadine linked substituted Oxadiazole thiols, *N*-arylamino-, substituted benzylidene hydrazinyl thiazoles and pyrazolone-hydrazinyl benzoates for Bioevaluation
- 63. Ms. Noor Fatima (August 2021- Sep 22)** Triazole Based Hydrazones, *N*-substituted Aryl Thiosemicarbazides, Iminothiazolines and 1,3,4-Oxadiazoles as Potential Bioactive Agents: Design, Synthesis and Characterization
- 64. Ms. Kiran Zafar (August 2021- Nov 22)** Tetrazonium conjugated C-2 symmetric Bis-Naphthamides, Pyrazolone hybrid drugs and Phenyl benzamide based Coumarins: Design Synthesis and Characterizations.
- 65. Ms. Maria Mustafa (August 2021- Oct 22)** Synthesis and Characterization of *N*-phenyl-2-aminothiazole based azomethines & aryl diazonium dyes and sulphonamide hybrid pyrazolone-*N*-carbothioamides for various applications

- 66. Ms. Asma Ashraf** (Feb. 2022-) Design, Synthesis and Characterization of Novel Camphor-Based Thiazoles, Camphor-Coumarin Linked Thiazoles and Thiazolidines for various Applications
- 67. Ms. Khansa Mumtaz** (Feb. 2022-) Novel Cyclopentane Conjugated Iminothiazolines and Guanidines as Potential Bioactive Agents: Design, Synthesis and Characterization
- 68. Ms. Hira Dilawaiz** (Feb. 2022-) Design, synthesis, and characterization of 3,4 dihydropyrimidin-3-thiones and 1,2,4 triazole-3-one derivatives for Bioevaluation studies
- 69. Usvah Hasan** (August 2022-)
- 70. Reda Zainab** (August 2022-)
- 71. Syed Aqibullah** (Feb. 2023-)
- 72. Muhammad Azeem** (Feb. 2023-)

M.Phil. Co-supervised:

- 1. Ms Bakhtawar Batool (2019, Dr M. Naeem, AJK university)** Synthesis, Characterization Biological/ Photo Electrochemical Assay of Diverse Heterocyclic and Azo Scaffolds and Related Motifs
- 2. Mian Bilal Haider (2020, Obaid Ur Rehman Abid, Hazara University)** Synthesis, Characterization and Biological Evaluation of Novel Pyrazoline Hybrid Acylthiourea Analogs
- 3. Ms Hajra Mumtaz (2020) Dr Aaliya Shehzadi, IIU Islamabad)** Synthesis and biological evaluation of novel, 3,6-bis (carbazolyl) dihydropyrazoles
- 4. Ms Maryam Shehzadi (2021, Dr Aaliya Shehzadi, IIU Islamabad)** Synthesis and application of carbazole based thiazolidinones as biologically active scaffolds
- 5. Ms Memoona Rafique, (2018) Dr Ashfaq Women University of AJ&K, Bagh)** Synthesis and biological evaluation of novel heterocycles

Research Supervision Ph.D Level

- 1. Mr. M. Zaman Ashraf, (2004-2011),** *Synthesis, Characterization and Bioscreening of Some 6,8-dioxygenated 7-substituted isocoumarins and related compounds*
- 2. Ms Amara Mumtaz, (HEC), (2006-2010),** *Synthesis Characterization and Biological activities of Some Novel Five and six membered heterocycles and biheterocycles*
- 3. Mr. Naeem Abbas, (HEC), (July 2006-2011)** “Synthesis and Characterization of novel heterocycles: Pyrazoles, Dihydropyrimidinones, Iminothiazolidinones, quinolinyloxy oxa/thiadiazolamines and triazolones / thiones and study of palladium (0)-catalysed cross-coupling reactions”
- 4. Ms. Hummera Rafique, (July 2006-2012)** “Natural Isocoumarin Analogues, Functionalized Pyrazoles, N-Substituted Dihydropyridinones, Iminothiazolidinones, Iminothiazolines and Related Heterocycles: Synthesis and Characterization”
- 5. Mr. Parvez Ali (2011-2015)** First Total Synthesis of Achlysisocoumarin I & II; Synthesis of some Benzylidene hydrazinyl- and Coumarin-3-pyrazolinyl- 1,2,4-triazoles and 1,3-thiazoles
- 6. Ms. Aliya Ibrar (March 2010-May 2015),** Synthesis, Characterization and Biological Assay of Some Novel Coumarinyl Heterocycles and Study of Halogen Bonding in N-Heterocyclic Organic Salts
- 7. Ms Madiha Kazmi (Jan 2012-August 2015),** Synthesis of New Carbazole, Triazine, Iminothiazoline, Coumarin and 2-Substituted 2-Azetine Derivatives

8. **Ms. Madiha Irfan (Jan 2010-August 2015)** Carbazole-& Fluorene-Based Polymeric and Molecular Materials for Optoelectronics Applications-Syntheses and Characterization.
9. **Ms. Iram Batool (Feb 2010--Dec 2015)** Synthesis of new Thiazolopyrimidine, Pyrazole, Stilbene-Triazine derivatives and Tropane-derived Enamines.
10. **Mr Ghulam Shabir (Jan 2013-September 2016)**, Synthesis, characterization and applications of New Rylene, Reactive and Xanthene Dyes.
11. **Ms Asma Khurshid (2012- February 2017)**, Synthesis, Characterization and Bioevaluation of New Dihydropyrimidine-2-thiones; Phenazone / Ferrocene -thioureas; Phenazone benzamides; 2-Aroyl iminothiazolines and Synthesis of a Tropane Auxillary for α -Alkylation of Aldehydes
12. **Mr. Shams-ul-Mehmmod, (2012-2017)**, New Coumarin-Thiazolidinone, Coumarin-Thiourea, Sulfanilamide-Iminothiazole, Quinazolinone-Azomethine Hybrids and Indanone Derivatives: Synthesis, Bioevaluation and Molecular Docking Studies
13. **Mr. Jamaluddin (2011-2017)** Fluorene, Rylene and Pyrene based Π -Conjugated Molecular Materials for Organic Electronics Applications: Syntheses and Characterization
14. **Ms. Syeda Aliya Shehzadi (2011-2017)**, New synthetic strategies using alkynes and propargylic amines for the preparation of aza-heterocyclic and non-cyclic compounds of biological interest
15. **Ms Mubeen Arif (2013-2018)** Design, Synthesis and Characterization of New Thiazolocoumarin, Thiazolocoumarin-Azomethine, Tetrazolo-cyanopyridine-Acetohydrazide and 8-Hydroxyquinoline-Azomethine Conjugates
16. **Mr Pervaiz Ali Channar (2015-2018)** Synthesis, Characterization Biological/ Photo Electrochemical Assay of Diverse Heterocyclic and Azo Scaffolds and Related Motifs
17. **Mr Ali Bahadur (2014-2018)**, Controlled synthesis and potential applications of ecofriendly polyurethane and nanomagnetic materials
18. **Ms Anila Iqbal (2016-2020)** High temperature resistant materials for potential aerospace applications
19. **Mr Hamid Aziz (2015-2020)** Design, Synthesis and Biological Studies of New Thieno[2,3-b]pyridines, Benzylidene-2-(thiazoly)hydrazines, 4-(Benzylideneamino)-triazol-3-thiones/ones and N-Acyl-imidazolo/morpholino carbothioamides
20. **Mr. Ifzan Arshad (2016-2021)** New Conjugated Organic Materials: Design, Synthesis and Applications
21. **Muhammad Shoaib QAU (2019)** Supervisor: M. Moazzam Naseer, QAU): Synthesis Characterization and Biomedical Applications of Mesoporous Bioactive Glass, Polyurethane and Composites
22. **Fawad Ahmad Janjua (2021)** Supervisor: Syed A. Tirmizi, QAU) Synthesis, Characterization and Biological Activities of Schiff Bases Derived from Hydrazones and their Complexes with 3d, and 4d Transition Metal Ions
23. **Mr. Atteeque Ahmed (Jan 2017-2022)** Design Synthesis and Enzyme Inhibition Appraisal of Vital Drug linked Heterocyclic Scaffolds and Related Compounds
24. **Mr Abdul Mannan (Sep 2017-)**
25. **Ms Sarwat Tahira (Sep 2019-)**

26. **Mr Mian Bilal Haider (2021....)**

27. **Hina Zaman (2022....)**

28. **Saba Bukhari Haider (2022....)**

Ph.D Co-supervised:

Ms Rabil Ujan_(2019-2023), Supervisor: Mehboob A.Rind, **Sindh University Jamshoro**) “Synthesis, characterization, Biological assay, DNA Binding studies and DFT calculations of some Bioactive Heterocyclic, Thiourea and Azo Scaffolds

Mr Irshad Ali (2022-) supervisor, Naqeeb Ullah Quetta Unviersity Quetta, Balochistan

MEMBERSHIP OF STATUTORY BODIES

Member Academic Council, University of Haripur

Member Board of Studies, University of Haripur

Member Board of Studies, KFUEIT - Khwaja Fareed University of Engineering and Information Technology.

Member Academic Council, KFUEIT - Khwaja Fareed University of Engineering and Information Technology

Member National Testing Service (NTS), Islamabad

CONFERENCES/ SEMINARS:

1. **Second DAAD Follow-Up Seminar** on Modern trends in Stereochemistry, Feb 11-13,1990, Department of Chemistry; Quaid-I-Azam University, Islamabad.

2. **Third DAAD Follow Up Seminar** on Role of Mass Spectrometry and Spectroscopy in Structure Elucidation, Sep 29-30, 1991, Department of Chemistry, Quaid-I-Azam University, Islamabad.

3. **Fifth National Chemistry Conference**, Oct 25-28, 1993, Department of Chemistry, Quaid-I-Azam University, Islamabad.

4. **4th DAAD Follow-up Seminar**, Quaid-I-Azam University, Islamabad, 29-April to 01-May 1999.

5. **10th National Chemistry Conference**, Oct 28-30, 1999, Department of Chemistry, Quaid-I-Azam University, Islamabad.

6. **Humboldt Introductory Meetings & Seminar Series**, Oct. 8-11, 2000, Universität Göttingen & Max Planck Institute Göttingen, Germany.

7. **Series of Seminars on Advanced Organic Synthesis, Solid Phase Syntheses, Molecular Modeling, Stereochemistry** at Institut für Organische Chemie, Universität Hannover, Germany.

8. **Organic Synthesis, A Personal Perspective**, May 15, 2001, Prof. Dr. David Evans, Göttingen University, Germany.

9. **7th Eurasia Conference on Chemical Sciences**, March 8-12, 2002, HEJ Research Institute of Chemistry, International Center for Chemical Sciences, Karachi, Pakistan Title: Total Synthesis of (-)-Callystatin A

10. **National Seminar on Frontiers of Chemistry**, December 12, 2002, Department of Chemistry, Quaid-I-Azam University, Islamabad.
11. **3rd International and 13th National Chemistry Conference**, December 28-31, 2002, Department of Chemistry, University of Karachi, Karachi, Pakistan.
12. **CREST- IPR International Symposium, Frontier of Biological NMR spectroscopy**, Science Hall, Life Science Centre (Senri-Chuo Toyonaka) January 26-27, 2004, Osaka, Japan.
13. **Workshop on Combinatorial Chemistry**, Prof. Dr. J. Rodemann, May 07-13, 2004, Department of Chemistry, Quaid-I-Azam University, Islamabad.
14. **4th International & 14th National Chemistry Conference**, May 16-18, 2004, P.C.S.I.R. Laboratories Complex, Lahore. **Title: A Facile Synthesis of Anticancer Antibiotic MI43-37F11.**
15. **5th International & 15th National Chemistry Conference**, November 24-27, 2004, Department of Chemistry, Quaid-I-Azam University, Islamabad.
16. **International Conference on Chemistry and industry**, December 11-15, 2004, King Saud University, Riyadh Saudi Arabia. **Title: Synthesis of 6-Methoxy-8-hydroxy-3-(4-methoxy phenyl)-3,4-dihydroisocoumarin**
17. **International Conference on Environmental Horizons**, December 21-23, 2004, Department of Chemistry, University of Karachi & International Center for Chemical Sciences, Karachi, Pakistan. **Title: Synthesis of Stellatin (3,4-Dihydro-8-hydroxy-7-hydroxy methyl-6-methoxyisocoumarin) from *Aspergillus* and *Emericella spp***
18. **6th International & 16th National Chemistry Conference**, April 6-8, 2006, Department of Chemistry, Bhauddin Zakriya University, Multan. **Title: Synthesis, bioactivity, Crystal Structure of Some Novel 2-(4-methylbenzoylimino)-3-aryl-4-methyl-1,3-thiazolines**
19. **10th EurAsia Conference on Chemical Sciences**, Manila, Philippines, 07–11 January 2008, **Title: Stereoselective total synthesis of 7-butyl-6,8-dihydroxy-3(R)-pentyl-3,4-dihydroisocoumarin from *Geotrichum sp.***
20. **18th National Chemistry Conference**, February 25-27, 2008, Institute of Chemistry, Punjab University, Lahore **Title: Synthesis, Spectroscopy & Crystal Structure of Some New 2-arylimino-3-aryl-4-phenyl-1,3-thiazolines**
21. **7th International & 19th National Chemistry Conference**, April 6-8, 2009, Department of Chemistry, Kohat University of Science and Technology. **Title: A comparative Study of antimicrobial activity of some isocoumarins, isoquinolinones and 1-thioisocoumarin**
22. **8th International & 20th National Chemistry Conference**, February 15-17, 2010, Department of Chemistry, Quaid-I-Azam University, Islamabad. **Title: Synthesis and antibacterial activity of some 5-Chloro-1-Aryl Isochromans**
23. **1st National Conference on Physical & Environmental Chemistry**, September 27-29, 2010, National Centre for Excellence in Physical Chemistry, University of Peshawar, **Title “Synthesis, spectroscopic and thermochemical studies of some novel carbazole-pyridine co-polymers”**
 - ii) **Title 2 Syntheses and Characterization of Some Triphenylimidazoles and Their Novel Azo Dyes**
24. **11th EurAsia Conference on Chemical Sciences**, 6-10 October 2010, The Dead Sea. Jordan, 07–11, **Title: Synthesis and bioactivities of novel 1,2,4-triazoles and triazolthiadiazine derivatives p08**

- 25. Seminar: “Pakistani & German Universities – Joining Forces for a Better Future” DAAD Humboldt Alumni Seminar** Oct. 29 – 31, 2010, Islamabad
- 26. 3rd Academic and Subject Committees Meeting**, National Testing Service Pakistan, December 28-30, 2010, Islamabad
- 27. 9th International & 21st National Chemistry Conference, March 14-16, 2010**, Department of Chemistry, University of Karachi & International Center for Chemical & biological Sciences, Karachi, Pakistan. Title “Synthesis, of some novel coumarinyl heterocycles”. pp.
- 28. 3rd Chemistry Conference 2011 on, Recent Trends in Chemistry October 17-19, 2011**, PINSTECH, Nilore, Islamabad
Title: Synthesis, Spectroscopic and Thermochemical Studies of Some Novel Carbazole-Pyridine Copolymers
- 29. 10th International and 22nd National Chemistry Conference 2011, November 21-23, 2011, Department of Chemistry & Biochemistry, University of Agriculture, Faisalabad.** “One Pot Synthesis, Crystal Structure antibacterial Activity of Novel 5-Acetyl-3-Aryl-2-Thioxo-Dihydropyrimidine-4,6(1*H*,5*H*)-Diones”
ii) Synthesis and characterization of 3-aryl-2-(S-substituted) quinazolin-4-ones derivatives
- 30. 11th International and 23rd National Chemistry Conference 2012**, October 15-17, 2012, *National Centre of Excellence in Physical Chemistry, University of Peshawar*
i) A new facile one-pot, three-component method for the synthesis of *N*-(4-Acetyl-5-methyl-1,3-oxathiol-2-ylidene)benzamides. ii) Synthesis and Characterization of New Naphthoyl based iminothiazolidinones
- 31. First Pakistan-U.S. Science & Technology Cooperation Program Symposium: Economic Growth through Technology Transfer**, January 31-February 1, 2013, National University of Sciences & Technology (NUST), NUST Business School (NBS) Islamabad.
- 32. Conference on Emerging Materials and Processes August 22 -24, 2013, National University of Sciences & Technology (NUST), NUST School of Chemical and Materials Engineering (SCME).**
i) Jamaluddin: Synthesis, characterization, and Photo physical properties of new Perylene 3,4,9,10-tetracarboxylic acid diimides
ii) Madiha Irfan: Synthesis & Studies of some novel Carbazole - pyridine copolymers for potential applications in Organic Light Emitting Diodes (OLEDs)
iii) **Graphene oxide Based Nanocomposite: A versatile Platform for Novel Applications**
Uzma Ilyas and Aamer Saeed, First Prize on Poster presentation
- 33. 1st International Symposium on Drug Development– Natural & Synthetic 25-27 August 2013 Department of Pharmacy, COMSATS Institute of Information Technology, Abbottabad.**
Title: “Synthesis & Characterization of Some New 2-Naphthoyl bearing iminothiazolidinones as anticancer molecules”
- 34. 5th Chemistry Conference 2013 on “Chemistry in life Sciences” 04-06 Nov 2013. Chemistry Division, PINSTECH Islamabad**
i) Jamaluddin: Synthesis, characterization of soluble Perylene derivatives for Organic Electronics
ii) Madiha Irfan: Synthesis & Studies Carbazole, Fluorene, and Perylene based Materials for optoelectronic applications
- 35. 2nd International Conference on Drug Development– Natural & Synthetic 24-25 August 2015 Department of Pharmacy, COMSATS Institute of Information Technology, Abbottabad.**
Title: “Synthesis and characterization of Two Novel series of azomethine-sulphanilamide Hybrids”
- 36. Conference on “Recent trend in Chemistry”, Oct-3-4, 2015**, Department of Chemistry, Allama Iqbal Open University Islamabad.
- 37. 7th Chemistry Conference 24-26th November 2016 Chemistry Division, PINSTECH Islamabad**
Topic: Ghulam Shabir: Multichromic bis-axially Extended Perylene Schiff bases Diimides, Synthesis Characterization and Studies
- 38. "Two Day Workshop on Patent and Research Paper Writing"** at Elite Hotel Nathiagali. Organized by National Center of Excellence in Physical Chemistry, University of Peshawar
- 39. 15th International and 27th National Chemistry Conference 2011**, August 22-25, 2016, Department of Chemistry University of Malakand, KJPK Pakistan.

- 40. International Conference on “Recent Trends in Chemistry;** November 24-25, 2016. Allama Iqbal Open University, Islamabad, Pakistan. Title: Retrosynthesis Based Total Synthesis of Some Natural Products: Ratjadone, Callystatin A and Achiliscoumarin I&II”
- 41. 7th Chemistry Conference 24-26th November 2016 Chemistry Division, PINSTECH Islamabad**
Topic: Ghulam Shabir: Multichromic bis-axially Extended Perylene Schiff bases Diimides, Synthesis Characterization and Studies
- 41. 14th EURASIA Conference on Chemical Sciences (EuAsC2S-14),** The International Center for Chemical and Biological Sciences (University of Karachi) December 15 -18, 2016. Title:
- 42. 9th Chemistry Conference Chemistry in Engineering & Life Sciences (CELS-2017) 19th -21st September 2017 Chemistry Division, PINSTECH Islamabad** Topic: Azomethine and thiourea hybrids of 4-Aminocoumarin and Ibuprofen: Synthesis and Bioevaluation
- 43. 3rd International Chemistry Conference Recent trend in Chemistry”, Nov.-3-4, 2017,** Department of Chemistry, Allama Iqbal Open University Islamabad.
Topics: CuI/ZnII-Catalyzed Four-Component One-Pot Synthesis of Thiazolidin-2-imines by Direct Coupling of Aldehydes, Amines, Alkynes and Isothiocyanates: Syeda Aaliya Shehzadi, Synthesis, Characterization and Biological Evaluation of N-(2,3-dimethyl-5-oxo-1-phenyl-2,5-dihydro-1H-pyrazol-4-yl) benzamides: Asma Khurshid,
An Approach toward the Stable Solid Diazonium Salts and their Applications for the Room Temperature Synthesis of Acid Dyes and their Chromium (III), Iron (II), Copper (II) Complexes: Ghulam Shabir, Synthesis and Characterization of Novel Highly Selective Chemosensors Azo-thiosemicarbazones and Potential Bioactive Azo dye-thiohydantoin, Samina Rashid, Facile Access to 3,7-Dialkyltetrahydro-1H,5H-[1,2,4]triazolo [1,2-a][1,2,4]triazole-1,5-dithiones: Pervaiz Ali Channar
- 44. The International Workshop on the Application of NMR in Pharmaceuticals, Phytotherapeutics and Medicine” Bezmialem Vakif University (BVU) November 15-17, 2017, Istanbul, TURKEY** in collaboration with the Network of Academies of Sciences in Islamic Countries (NASIC) under the auspices of the Islamic Development Bank. **Invited Speaker**
Topic: **The Role of NMR In Determination of The Enantiomeric Purity of Chiral Drugs**
- 45. 5th International Conference on Drug Development – Natural & Synthetic** “Current Approaches and Emerging Trends for the Development and Discovery of Drugs, Centre for Advanced Drug Research (CADR), June 28-29, 2018, COMSATS Abbottabad. **Invited Speaker:** 1-Acyl-3-Arylthioureas, 1,2,4-Triazol-3-yl-2 Phenylethylbenzamides: Synthesis, Enzyme Inhibition, Kinetics and Molecular Docking Studies
- 46. Pakistan-U.S. Science & Technology Start-Up and Ideation Training Program!** August 20 to September 13, 2018. 4 virtual sessions and a 3-day in-person event on **August 28 -30, 2018** at the **Grand Hyatt Dubai, U.A.E!** Team: 04
- 47. 17th International and 29th National Chemistry Conference,** September 6-8, 2018, 2018, University of Peshawar, Bara Gali KPK Pakistan.
- 48. RSC Pakistan 1st International Conference on Medicinal Chemistry & Drug Discovery held at COMSTECH Islamabad** Oct 18-19, 2018. **Chaired the 6th scientific session chaired. 2nd Prize poster won.**
- 49. 4th International Chemistry Conference Recent trend in Chemistry”, Nov.-7-8, 2018,** Department of Chemistry, Allama Iqbal Open University Islamabad. **Chaired the 1st technical scientific session.**
Topics: Thiazolidin-2-imines by Direct Coupling of Aldehydes, Amines, Alkynes and Isothiocyanates: Syeda Aaliya Shehzadi,
Selective Chemosensors Azo-thiosemicarbazones and Potential Bioactive Azo dye-thiohydantoin, Samina Rashid,
Facile Access to novel heterocycles: Pervaiz Ali Channar
- 50. Annual Meeting of the Alexander von Humboldt Foundation, 26-28 June 2019, Berlin, Germany.**
- 51. 4th International Pharmacy Conference (Virtual/Online),** October 10, 2020, Department of Pharmacy, Quaid-I-Azam University, Islamabad.
- 52. International Conference on Research Advancements in Chemistry** March 10-11, 2021, Organized by Department of Chemistry, School of Natural Sciences, NUST, Islamabad.
- 53. Invited speaker** at National International Chemistry Conference, December 16-18, **UMT Lahore** “Development of glucose conjugated NIR fluorescent bio-probe for *in vivo* tumor targeting “(2021)

54. Invited speaker “International Conference on Research Advancements in Chemistry – 2022” (ICRA-C-2022) 24 & 25th August 2022. organized by Department of Chemistry, SNS-NUST, Islamabad
Novel Drug clubbed Iminothiazolidinones as promising Elastase Inhibitors for potential applications in cosmetics.

55. Pakistan Biological Safety Association, Invitation for the Institutional Biosafety Committee Workshop-25-26 October in Islamabad

56. Invited speaker: 20th International & 32nd National Chemistry Conference on Chemical Sciences and Sustainable Development Goals, November 02-04, 2022, at Khwaja Fareed, University of Engineering & Information Technology, R. Yar Khan

57. Invited speaker: 5th International Chemistry Conference on “Recent Trends in Chemistry” 15-16th March 2023. Department of Chemistry, Allama Iqbal Open University Islamabad.

58.

Outstanding Reviewer's awards from the following International Journals

1. The Journal of Organic Chemistry (The American Chemical Society)
2. ACS Medicinal Chemistry Letters (The American Chemical Society)
3. ACS Omega (The American Chemical Society)
3. MedChemComm (Royal Society of Chemistry)
4. RSC Advances (Royal Society of Chemistry)
5. Drug Development Research (Wiley)
6. Bioorganic Chemistry (Elsevier)
7. European Journal of Medicinal Chemistry (Elsevier)
8. Bioorganic & Medicinal Chemistry (Elsevier)
9. Tetrahedron (Elsevier)
10. Journal of Chemical Sciences (Elsevier)
11. Journal of Taibah University for Science (Elsevier)
12. Chinese Chemical Letters (Elsevier)
13. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (Elsevier)
14. Fitoterapia (Elsevier)
15. Phytochemistry Letters (Elsevier)
16. Mini Reviews in Organic Chemistry (Bentham Science Publishers)
17. Natural Product Research (Taylor & Francis)
18. Journal of Enzyme Inhibition and Medicinal Chemistry (Taylor & Francis)
19. Medicinal Chemistry Research (Springer)
20. Molecular Diversity (Springer)
21. Journal of Heterocyclic chemistry (Wiley)
22. Scientific Reports (Nature Publishing Group, London, UK)
23. Chemical Biology & Drug Design (John Wiley & Sons)
24. ChemistrySelect (Wiley-VCH Verlag, Weinheim, Germany)
25. Molecules (MDPI)
27. Zeitschrift fuer Naturforschung C (De Gruyter)
28. Drug Design, Development and Therapy (Dove Medical Press)
29. Journal of the Chemical Society of Pakistan
30. Journal of Biomolecular Structure and Dynamics WOS
31. Chemical Data Collection