

DR. AZIZ - UR - REHMAN**Professor (Tenured)**

Department of Chemistry

GC University, Katchery Road, Lahore.

Tel: 92 (0) 42 111 000 010, Cell # 92 (0) 300-2697982

E-mail: azizryk@yahoo.com; rehman@gcu.edu.pk**PERSONALS**

Father's name: Habib-ur-Rehman

N.I.C. No.: 31303-5603229-7

Date of Birth: 31st December 1973

Marital status: Married

Religion: Islam

Nationality: Pakistani

Place of Birth: Rahim Yar Khan (Punjab, Pakistan)

Permanent Address: St # 10, Habib Colony, Rahim Yar Khan, Punjab, Pakistan.

ACADEMIC QUALIFICATIONS:**Ph.D. Thesis (2001-2006)**

H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, W.H.O. Collaborating Centre, University of Karachi, Karachi-75270, Pakistan

Thesis Title:

“Phytochemical Investigations on the Chemical Constituents of *Indigofera hetrantha* Wall. *Urtica pilulifera* Linn., and *periploca aphylla* Decne.” work completed under the supervision of **Prof. Dr. Abdul Malik**.

FELLOWSHIPS OBTAINED:

- **Junior Research Fellowship** (2001 - 2003); HEJ Research Institute of Chemistry, ICCBS, University of Karachi, Pakistan.
- **Research Fellowship** (2003 - 2006); HEJ Research Institute of Chemistry, ICCBS, University of Karachi, Pakistan.

Courses completed at HEJRIC for M.Phil./Ph.D program**Theory:**

- Organic Chemistry Course –1 [Physical Methods]
- Organic Chemistry Course –2 [Structure & Reactivity]
- Organic Chemistry Course –3 [Synthesis I]
- Organic Chemistry Course –4 [Synthesis II]

Practical:

- Organic Practical Synthesis Course
[Under the supervision of **Prof Dr. I. Ninomiya** from Japan as visiting professor at HEJ]

Additional Courses

- “X-ray Crystallography” held during different time schedules from August 2001.
- “An Introduction to Bio-inorganic & Medicinal Chemistry of Metals” held on 17th -31st May 2003.
- ❖ **M.Sc. (Chemistry)**, (2000)
Specialization in Organic Chemistry along with other papers of Analytical Chemistry, Applied Chemistry, Environmental Chemistry, Inorganic Chemistry and Physical Chemistry. *Islamia University, Bahawal Pur.*
- ❖ **B.Sc. (Chem., Bot., Zoo.)**, (1997)
Islamia University, Bahawal Pur.
- ❖ **F.Sc. (Pre-medical)**, (1994)
Govt. Khawaja Fareed College, Rahim Yar Khan.
- ❖ **Matriculation (Science)**, (1990)
Bahawal Pur Board

PROFESSIONAL EXPERIENCE (Post PhD):

▲ Professor (Tenured) (HEC Approved Supervisor) 23-08-2019– till date Department of Chemistry, GC Univeristy Lahore, Pakistan.	<u>Task</u> • Teaching of Ph.D., M.Phil, M.Sc and B.Sc. (Hons.) students. • Supervising in research of different class’s scholars. • Fulfill the University and Departmental tasks.
▲ Associated Professor (Tenured) (HEC Approved Supervisor) 05-12-2013– 22-08-2019 Department of Chemistry, GC Univeristy Lahore, Pakistan.	<u>Task</u> • Teaching of Ph.D., MS forensic chemistry M.Sc and B.Sc. (Hons.) students. • Supervising in research of different class’s scholars. • Fulfill the University and Departmental tasks.
▲ Assistant Professor (TTS) (HEC Approved Supervisor) 03-09-2007 – 04-12-2013 Department of Chemistry, GC Univeristy Lahore, Pakistan.	<u>Task</u> Supervision of research scholars and teaching of PhD, M.Phil. Chemistry/M.S. Pharmaceutical Chemistry, M.Sc and B.Sc. (Hons.) classes.

▲ Scientific Officer (BPS-17) 01-04-2006 – 06-09-2007 Pakistan Council of Scientific & Industrial Research Laboratories Complex, Karachi-75280	<u>Task</u> Bio-assay guided isolation studies on Pakistani medicinal plants. Formulation of cosmetics and analysis of drugs.
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ADMINISTRATIVE & ADVISORY

EXPERIENCE:

-  **Departmental Chemical Store Incharge:-** (06-03-2010 – 01-02-2011) Deputed as a Departmental Store Incharge (DSI) for look after the purchase requirements of the Department.
-  **Departmental Lab. Staff Incharge:-** (06-03-2010 – 01-02-2011) Deputed as a Lab. Staff Incharge to assist them.
-  **Member as expert of the Board of Study (BOS)** in Department of Chemistry, The Government Sadiq College Women University Bahawalpur, Bahawalpur.

PROFESSIONAL TRAINING:

Participated in Staff Training Program 2009 organized by Quality Enhancement Cell, GC University, Lahore

HONOURS & AWARDS:

- ▲ Included in the list of “**HEC Approved Supervisor**” for Chemistry since 2007.
- ▲ “**Outstanding Contribution in Research Activities** ” for rendering valuable research role for the Department in 2010-2011 by Dunnicliff Chemical Society, Department of Chemistry, GC University, Lahore.
- ▲ “**Research Productivity Award-2011-12**” given by Pakistan Council for Science and Technology, Ministry of Science and Technology, Islamabad, Pakistan.
- ▲ “**Acknowledgement Certificate**” given on May 22, 2013 for achieving Research Productivity Award-2011-12 by Dunnicliff Chemical Society, Department of Chemistry, GC University, Lahore.
- ▲ Nominated **Productive Scientists of Pakistan 2012-13** by Pakistan Council for Science and Technology, Ministry of Science and Technology, Islamabad, Pakistan
- ▲ Nominated **Productive Scientists of Pakistan 2014-15** by Pakistan Council for Science and Technology, Ministry of Science and Technology, Islamabad, Pakistan
- ▲ Appointed as **Managing Editor** of the Scientific Ravi on **March 2014** by the Worthy Vice Chancellor, GC University, Lahore.

- ▲ “**Certificate of Excellence**” was given on May 22, 2014 for commendable services as Managing Editor of The Scientific Ravi by Dunnicliff Chemical Society, Department of Chemistry, GC University, Lahore.
- ▲ “**Certification of Appreciation**” was given in recognition of valuable contribution in 1st International Conference on Forensic Science & Justice held on 22nd -24th October 2014.

MEMBERSHIP OF PROFESSIONAL BODY:

- ▲ Advisory Editorial Member of Pharmacy and Pharmaceutical Sciences.
- ▲ Life-time Member of the Chemical Society of Pakistan.
- ▲ Editorial Member of Mintage Journal of Pharmaceutical and Medical Sciences.

EDITORIAL EXPERIENCE:

- ▲ Reviewer for “African Journal of Pharmacy and Pharmacology”.
- ▲ Reviewer for “Pakistan Journal of Pharmaceutical Sciences
- ▲ Reviewer for “Journal of Saudi Chemical Society”.
- ▲ Reviewer for “Journal of the Chemical Society of Pakistan”.
- ▲ Reviewer for “African Journal of Microbiology”.
- ▲ Reviewer for Journal of Dow University of Health Sciences (JDUHS)

RESEARCH INTERESTS:

- ▲ (04-12-2013– till date):- Structure Activity Relationship (SAR) studies of synthesized biologically active heterocyclic compounds like 3,5-disubstituted-1,2,4-triazole, 2,5-disubstituted-1,3,4-oxadiazole and different sulfonamides fusing with piperidine/morpholine moiety and amidic functionality.
- ▲ (03-09-2007 – 04-12-2013):- 1)- Synthesis of heterocyclic compounds exhibiting diverse and improved pharmacological potential like 2,5-disubstituted 1,3,4-oxadiazole, sulfonamides and different halogenated substituted coumarin fusing with piperidine/piperazine/morpholine and oxadiazole nucleus.
- ▲ 2)- Purification, characterization and derivatization of various natural products to study their structure-activity relationship, *in vitro* assessment of relief to oxidative injury by different samples.
- ▲ (02-04-2001 – 31-03-2006):- Isolation of biologically active natural products from the medicinal plants & their structure elucidation by spectroscopic procedures like, UV, IR, MS, 1D and 2D-NMR at H.E.J. Research Institute of Chemistry, University of Karachi, Karachi-75270.

- ▲ (01-04-2006 –06-09-2007):- Bio-assay guided isolation studies on Pakistani medicinal plants. Formulation of cosmetics and analysis of pharmaceutical drugs at Pakistan council of Scientific & Industrial Research Laboratories Complex, Karachi-75280

RESEARCH COLLABORATION:

1. A Research Collaboration Agreement was made on 13th July 2014 with the chair of Oman's medicinal plant and marine natural products, the university of Nizwa Oman for providing the assistance in spectral analysis of organic molecules.
2. A Research Collaboration Agreement was made on 2nd September 2013 with Dr. Irshad Ahmad Assistant Professor, Department of Pharmacy The Islamia University Bahawalpur, Bahawalpur, Pakistan for providing the assistance in Biological Screening of organic compounds.

PROCESS DEVELOPED

1. Zinc Syrup
2. ORS Energy drink
3. Punica granatum Syrup (Osaplex)

TECHNICAL REPORT

1. “*Technical report on NEOTAME (Sweetner and flavour enhancer)*”
Aziz-ur-Rehman, Naheed Riaz, N. Afza and T. H. Usmani

CONFERENCES/WORKSHOPS /COURSES ATTENDED

1. Attended practical courses of HPLC, GC-MS, GC, IR, UV, CD, 1D and 2D NMR techniques held at HEJ Research Institute of Chemistry, University of Karachi, Pakistan.
2. 7th Eurasia Conference on Chemical Sciences (March 08-12, 2002, Karachi, Pakistan).
3. Protein Structure Function Relationship (January 20-24, 2003, Karachi, Pakistan).
4. Poster Presentation on 9th International Symposium on Natural Product Chemistry (February 11-14, 2004, Karachi, Pakistan).
5. Oral Presentation 4th International and 14th National Conference of Chemistry (May 16-18, 2004, Lahore, Pakistan).
6. Poster Presentation on 10th International Symposium on Natural Product Chemistry (January 06-09, 2006, Karachi, Pakistan).
7. Attended the 18th National Chemistry Conference, “Chemistry for the Development of Health, Industry and Environment”, Chemical Society of Pakistan held on 25-27th February 2008 at Institute of Chemistry, Punjab University, Lahore, Pakistan.

8. Attended “National Workshop on Crystallography: Single Crystal Structure Determination” held on 25th-26th August 2008 at GC University, Lahore.
9. Attended “Two days workshop on Crystallography” held on 6th-7th June, 2011 at GC University, Lahore.
10. Participated “International conference on pure and applied chemistry” (ACPAC) held on 6th July 2012 at University of Mauritius, Mauritius.
11. Oral Presentation; Drug Development–Natural & Synthetic-2013 Department of Pharmaceutical Sciences, COMSATS Institute of Information Technology, Abbottabad, Pakistan (August 25 - 27, 2013).
12. Participated “1st International Conference on Forensic Science & Justice” held on 22nd -24th October 2014.

TECHNIQUES EMPLOYED DURING Ph.D. RESEARCH

- ▲ NMR (1D & 2D NMR, Bruker)
- ▲ Mass (EI/FAB/HR)
- ▲ UV/IR
- ▲ HPLC(Recycling preparative LC-908 JAI Japan, Analytical LC-6A Shimadzu)
- ▲ GC/MS
- ▲ Flash Chromatography

Laboratory Management Related To Quality Control/Assurance

Work Related to ISO/IEC-17025 Certification from PNAC during 2006-2007

- ▲ Performed a key role in the process of Developing a testing method for the “Detection of Para Red in chilli powder” its Validation and Accreditation
- ▲ Actively participated in the maintenance of Laboratory # 1126 at Pharmaceutical Research Centre, PCSIR Labs. Complex, Karachi for the performance of above mentioned test according to ISO/IEC-17025 standards

RESEARCH SCHOLARS SUPERVISED:

▲ Ph.D.

As a supervisor	As a co-supervisor	Total
13	05	18

RESEARCH SCHOLARS SUPERVISED:▲ **M.Phil./MS**

As a supervisor	As a co-supervisor	Total
61	10	71

▲ **M.Sc.**

As a supervisor	As a co-supervisor	Total
13	12	25

▲ **B.Sc. (Hons.)**

As a supervisor	As a co-supervisor	Total
29	13	42

BOOK PUBLISHED:

1. Aziz-ur-Rehman & Abdul Malik., “**Threaputic Agents from *Indigofera hetrantha* and *Periploca aphylla***” LAMBERT Academic Publishing GmbH & Co. KG Germany (2011). ISBN: 978-3-8473-2705-9, pp. 1-177.
2. Aziz-ur-Rehman. “**Synthesis and Biological Screening of some sulfonamides and Oxadiazoles**”. LAMBERT Academic Publishing GmbH & Co. KG Germany (2014). ISBN: 978-3-659-28572-1, pp. 1-54.
3. Aziz-ur-Rehman & Khadija Nafeesa. “**1,3,4-Oxadiazole; synthesis of Derivatives with Antioxidants and Enzyme Inhibition Activities**”. Pharmamedix India Publication Pvt. Ltd. 220, Bhamasi, Churu (Rajasthan)-331001, India (2014). ISBN: 978-93-84097-01-1, pp. 1-64.
4. Aziz-ur-Rehman. “**Synthesis of Bioactive Morpholine Based 1,3,4-Oxadiazole Scaffolds**”. LAMBERT Academic Publishing GmbH & Co. KG Germany (2015). ISBN: 978-3-659-70954-8, pp. 1-60.
5. Aziz-ur-Rehman “**Pharmacological Evaluation of Synthesized Acetamides Bearing 1,3,4-Oxadiazole Heterocycles**”. Pharmamedix India Publication Pvt. Ltd. 220, Bhamasi, Churu (Rajasthan)-331001, India (2015). ISBN: 978-93-84097-12-7. pp. 1-97.
6. Hira Khalid, **Aziz-ur-Rehman**, M. Athar Abbasi, Rashad Hussain, Abdul Malik, Muhammad Ashraf, M. Qaiser Fatmi. Synthesis, Spectral Analysis and Biological Evaluation of 5-Substituted 1,3,4-Oxadiazole-2-yl-4-(Piperidin-1-ylsulfonyl)Benzyl Sulfide. In: Ramasami P., Gupta Bhowon M., Jhaumeer Laulloo S., Li Kam Wah H. (eds) Emerging Trends in Chemical Sciences. ICPAC (2016). pp 221-238. DOIhttps://doi.org/10.1007/978-3-319-60408-4_14; Publisher Name Springer, Cham; Print ISBN978-3-319-60407-7; Online ISBN978-3-319-60408-4.

RESEARCH PROJECTS:

S. No.	Title of Project	Role	Funding Agency	Year	Amount
1.	Phytochemical Investigation on the Bioactive Chemical Constituents of Guduchi.	Co-PI	GC University, Lahore.	2008-09	Rs. 262,500/= (in PKR)

2.	Synthesis and Structure-activity Relationship Studies on Some New <i>N</i> -Alkylated/arenylated Sulfonamides bearing 1,4-Benzodioxane Moiety.	Co-PI	Higher Education Commission (HEC) of Pakistan.	2012-15	Rs. 2308,158/= (in PKR)
3.	“Synthesis and Spectral Characterization and Biological Evaluation of 1,3,4-oxadiazole and Mopholine Bearing Heterocycles”.	PI	GC University, Lahore.	2012-15	Rs. 1,50000/= (in PKR)
4.	Synthesis, Characterization and Biological Activities of Sulfonamide Derivatives bearing 1,3,4-Oxadiazole and Piperidine nucleus	PI	Higher Education Commission (HEC) of Pakistan.	2013-16	Rs. 2834,988/= (in PKR)
5.	Synthesis, Spectral Characterization and Pharmacological Screening of 2,5-Disubstituted 1,3,4-Oxadiazole Bearing Piperidine Moiety	PI	GCU faculty project	2015-2016	Rs. 3,77,553/= (in PKR)
5.	“Synthesis and bioactivity studies of various 2,5-disubstituted-1,3,4-oxadiazole and 3,4,5-trisubstituted-1,2,4-Triazole molecules having azinane core”	PI	GC University, Lahore	2016-2017	Rs. 2,00000/= (in PKR)
6.	Conventional and microwave-assisted synthesis of trisubstituted-1,2,4-triazoles and their structure-activity relationship studies	PI	GCU Ph.D scholar project (Naeem A. Virk)	2018-2019	Rs. 2,00,000/= (in PKR)

REFERENCES:

Prof. Dr. Abdul Malik <i>S.I.</i> Senior Professor of Chemistry, (PhD Supervisor)	International Center for Chemical and Biological Sciences, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi-75270, Pakistan. Tel. 0092-21-4824926, Cell. 0092-300-2007250 Fax: 0092-21-4819018-19. E-mail: abdul.malik@iccs.edu
Prof. Dr. Khalid M. Khan <i>T.I.</i> Professor of Chemistry <i>Acting Co-Director</i>	International Center for Chemical and Biological Sciences, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi-75270, Pakistan. Tel. 0092-21-99261718, Cell: 0092-300-2187073 E-mail: khalid.khan@iccs.edu
Prof. Dr. M. Athar Abbasi Professor of Chemistry	Department of Chemistry, GC University, Lahore-54000, Pakistan. Cell: 0092-333-4896380. E-mail: atrabbasi@yahoo.com

RESEARCH PUBLICATIONS:**Over All Research Publications****2003**

1. **Aziz-ur-Rehman**, N. Riaz, H. Ahmad, Z. Ahmed and A. Malik "Phytochemical studies on *Periploca aphylla*" *J. Chem. Soc. Pak.* Vol:25 pp:257-259 (2003).
2. N. Riaz, I. Anis, A. Malik, Z. Ahmed, **Aziz-ur-Rehman**, P. Muhammad, S. A. Nawaz and M. I. Choudhary "Paeonins A and B, Lipxygenase Inhibiting monoterpene galactosides from *Paeonia emodi*" *Chem. Pharm. Bull.* Vol: 51 pp: 252-254 (2003).
3. N. Riaz, I. Anis, **Aziz-ur-Rehman**, A. Malik, Z. Ahmed, P. Muhammad, S. Shujaat and Atta-ur-Rahman. "Emodinol *Beta*-Glucoronidase Inhibiting triterpene from *Paeonia emodi*.", *Nat. Prod. Res.* Vol: 17(4) pp: 247-251 (2003).

2004

4. **Aziz-ur-Rehman**, A. Malik, N. Riaz, Z. Ahmed, H. Ahmad, S. A. Nawaz and M. I. Choudhary "Lipxygenase Inhibiting Flavonoids from *Indigofera hetrantha*," *Heterocycles* Vol:63 pp:359-366 (2004).
5. **Aziz-ur-Rehman**, A. Malik, N. Riaz, H. R. Nawaz, H. Ahmad, S. A. Nawaz and M. I. Choudhary "Lipxygenase Inhibiting Constituents from *Periploca aphylla*" *J. Nat. Product* Vol:67 pp:1450-1454 (2004).
6. N. Riaz, A. Malik, **Aziz-ur-Rehman**, P. Muhammad, S. A. Nawaz and M. I. Choudhary "Cholinesterase Inhibiting Withanolides from *Ajuga bracteosa*" *Chem. & Biodiv.* Vol:1 pp:1289-1285 (2004).
7. N. Riaz, A. Malik, **Aziz-ur-Rehman**, Z. Ahmed, P. Muhammad, S. A. Nawaz and M. I. Choudhary "Lipxygenase Inhibiting Oligostilbene and Monoterpene Galactoside from *Paeonia emodi*" *Phytochemistry* Vol:65 pp:1129-1135 (2004).

2005

8. **Aziz-ur-Rehman**, A. Malik, S. Mahmood, E. Jahan and H. Ahmad "Phytochemical studies on *Indigofera hetrantha*" *J. Chem. Soc. Pak.* Vol:27 pp:440-442 (2005).
9. **Aziz-ur-Rehman**, A. Malik, N. Riaz, H. Ahmad, S. A. Nawaz and M. I. Choudhary, "Lipxygenase Inhibiting Constituents from *Indigofera hetrantha*," *Chem. Pharm. Bull.* Vol:53 pp:263-266 (2005).

2007

10. S. Khan, **Aziz-ur-Rehman**, N. Afza, S. Ali and A. Mlik "Phytochemical Studies on *Cotoneaster racemiflora*" *J. Chem. Soc. Pak.* Vol: 29 pp: 620-623 (2007).

2008

11. S. Mahmood, **Aziz-ur-Rehman**, Z. Ahmad, N. Afza, A. Malik, H. Ahmad and M. I. Choudhary " Monoterpene glycosides from *Indigofera hetrantha*." *J. Nat. Prod. Res.* Vol: 22 No. 13 pp: 1189-1195 (2008).

2009

12. S. A. Raza, **Aziz-ur-Rehman**, A. Adnan and F. Qureshi "Comparison of antioxidant activity of essential oil of *Centella asiatica* and Butylated hydroxyanisole in sunflower oil at ambient conditions" *Biharean Biologist*. Vol: 3, No. 1 pp:71-75 (2009).
13. S. Farheen, **Aziz-ur-Rehman**, N. Afza, A. Malik, L. Iqbal, M. A. Rasool, M. I. Ali and R. B. Tareen "Galinsosides A and B, Bioactive flavonone glucosides from *Galinsoga parviflora*" *J. Enzym. Inhib. Med. Chem.* Vol:25, No. 5 pp:1128-1132 (2009).
14. N. Riaz, R. A. Khan, **Aziz-ur-Rehman**, S. Ali, S. Yasmeen and N. Afza "Detection and determination of para-red in chillies and spices by HPLC". *J. Chem. Soc. Pak.* Vol: 31 pp: 151-155 (2009).
15. S. Khan, N. Riaz, N. Afza, A. Malik, **Aziz-ur-Rehman**, L. Iqbal and M. Latif "Antioxidant constituents from *Contoneaster reaceciflora*" *J. Asian Nat. Prod. Res.* Vol: 11, No. 1 pp: 44-48 (2009).
16. S. Ali, G. M. Maharvi, N. Riaz, N. Afza, **Aziz-ur-Rehman**, M. Lateef and L. Iqbal, "Lipoxygenase Inhibitory Tetraketones: Potential Remedial Source for Inflammation and Asthama" *West Indian Med. J.*, Vol:58, No. 2 pp:92-97 (2009).
17. M.A. Abbasi, T. Riaz, F.M. Khan, **Aziz-ur-Rehman**, D. Shahwar, N. Ahmad, T. Shahzadi, M. Ajaib and V.U. Ahmad., "Chemical Composition of Volatile Fraction of Pakistani Peanut and its Antiradical Activities". *J. Chem. Soc. Pak.* 31, 955-959 (2009).

2010

18. M. Athar Abbasi, Ali Raza, Tauheeda Riaz, Tayyab Shahzadi, **Aziz-ur-Rehman**, M. Jahangir, Durre Shahwar, S. Z. Siddiqui, A. R. Chaudhary and Naeem Ahmad "Investigation on the Volatile Constituents of *Juglans regia* and their in Vitro Antioxidant Potential" *Proc. Pakistan Acad. Sci.* Vol:47(3) pp:137-141(2010).
19. M.A. Abbasi, T. Shahzadi, M. Akkurt, **Aziz-ur-Rehman**, T. Riaz., 6-Hydroxymethyl-4-methoxy-2H-pyran-2-one (Opuntiol)., *Acta Cryst.* E66, o199 (2010).
20. M.A. Abbasi, M. Jahangir, M. Akkurt, **Aziz-ur-Rehman**, I.U. Khan, S. Sharif., 1-(Chloromethyl)-3-nitrobenzene., *Acta Cryst.* E66, o608 (2010).
21. **Aziz-ur-Rehman**, A. Yasir, M. Akkurt, M.A. Abbasi, M. Jahangir and I.U. Khan., 1-(Chloromethyl)-4-nitrobenzene., *Acta Cryst.* E66, o1667 (2010).
22. **Aziz-ur-Rehman**, A. Siddiqua, M. Akkurt, M.A. Abbasi, M. Jahangir and I.U. Khan., N-(3-Ethoxyphenyl)-4-methylbenzenesulfonamide., *Acta Cryst.* E66, o1682 (2010).
23. M.A. Abbasi, **Aziz-ur-Rehman**, M. Akkurt, M. Jahangir, S. Weng Ng and I.U. Khan., Ammonium [(1S)-(endo,anti)]-(-)-3-bromocamphor-8-sulfonate., *Acta Cryst.* E66, o1707-o1708 (2010).
24. **Aziz-ur-Rehman**, H. Rafique, M. Akkurt, N. Dilber, M.A. Abbasi, and I.U. Khan., N-Ethyl-N-(2-methoxyphenyl)benzenesulfonamide., *Acta Cryst.* E66, o1728 (2010).
25. **Aziz-ur-Rehman**, M.A. Sajjad, M. Akkurt, S. Sharif, M.A. Abbasi, and I.U. Khan., N-(2-Methoxyphenyl)benzenesulfonamide., *Acta Cryst.* E66, o1769 (2010).
26. Sabahat Zahra Siddiqui, Usama Waqas, Mehmat Akkurt, **Aziz-ur-Rehman** and Islam Ullah Khan, 2-Amino-1,3-benzothiazol-3-ium dihydrogen phosphate, *Acta Cryst.* E66, o1929 (2010).
27. **Aziz-ur-Rehman**, Shahzaman, M. Akkurt, M.A. Abbasi, and I.U. Khan., N-(5-Chloro-2-methoxyphenyl)benzenesulfonamide., *Acta Cryst.* E66, o2855 (2010).

28. **Aziz-ur-Rehman**, W. Tanveer, M. Akkurt, A. Sattar, M.A. Abbasi, and I.U. Khan., *N-Benzyl-N-(2-methoxyphenyl)benzenesulfonamide*., *Acta Cryst.* E66, o2980 (2010).
29. **Aziz-ur-Rehman**, N. Abbas, M. Akkurt, M.A. Abbasi, S. Sharif and I.U. Khan., *N-(2-Hydroxy-1,1-dimethylethyl)benzenesulfonamide*., *Acta Cryst.* E66, o3028 (2010).
30. P. John, I. U. Khan, S. T. Sheikh, N. Gulzar and **Aziz-ur-Rehman** "Anodizing of Aluminum with Improved Corrosion Properties". *J. Chem. Soc. Pak.* Vol: 32 pp: 46-51(2010).
31. M.A. Abbasi, S.H. Ali, M. Ashfaq, **Aziz-ur-Rehman**, M.Z. Qureshi, S.Z. Siddiqui and V.U. Ahmad., 2,7-Dichlorofluorescein: A Suitable Complexing Agent for the Spectrophotometric Determination of Ofloxacin in Pure and Pharmaceutical Dosage Forms., *J. Chem. Soc. Pak.* 32, 172-175 (2010).
32. F. Ahmad, M.A. Abbasi, **Aziz-ur-Rehman**, M.A. Awan, M.A. Iqbal, S.A. Yousaf, M.J. Iqbal and V.U. Ahmad., Synthesis of Dye-sensitized Solar Cell Using Nickel-tetraphenylporphyrine as a Sensitizer., *J. Chem. Soc. Pak.* 32, 277-283 (2010).
33. M.A. Abbasi, A. Kausar, **Aziz-ur-Rehman**, H. Saleem, Sadia, M. Jahangir, S.Z. Siddiqui and V.U. Ahmad., Preparation of New Formulations of Anti-acne Creams and their Efficacy., *Afr. J. Pharm. Pharmacol.* 4, 298-303 (2010).
34. M.A. Abbasi, A. Zafar, T. Riaz, **Aziz-ur-Rehman**, S. Arshad, D. Shahwar, M. Jahangir, S.Z. Siddiqui, T. Shahzadi and M. Ajaib., Evaluation of Comparative Antioxidant Potential of Aqueous and Organic Fractions of *Ipomoea carnea*., *J. Med. Plants Res.*, 4, 1883-1887(2010).
35. M. A. Abbasi, T. Riaz, E. Anwar, **Aziz-ur-Rehman**, T. Shahzadi, S. Z. Siddiqui, M. Irshad and M. Ajaib, "Comparative study on the volatile constituents of American and Pakistani almonds and their antioxidant activities". *Bioscience Research*, 7(1): 56-62, (2010).

2011

36. T. Riaz, M.A. Abbasi, M.I. Umar, **Aziz-ur-Rehman**, T. Shahzadi, K.M. Khan and V.U. Ahmad., Comparison of Antioxidant Potential of Volatile Oils of *Syzygium aromaticum* and *Illicium verum* Relative to Conventionally Used Standards., *J. Chem. Soc. Pak.* 33, 200-204 (2011).
37. M.A. Abbasi, S. Arshad, T. Riaz, **Aziz-ur-Rehman**, A. Zafar, S.Z. Siddiqui, T. Shahzadi, and M. Ajaib., *In vitro* Assessment of Relief to Oxidative Injury by Different Samples of *Xanthoxylum armatum*., *Asian J. Chem.* 23, 3353-3356 (2011).
38. T. Shahzadi, M.A. Abbasi, T. Riaz, **Aziz-ur-Rehman**, S.Z. Siddiqui and M. Ajaib., *Caryopteris odorata*: A Rich Source of Antioxidants for Protection against Chronic Diseases and Food Products., *J. Chil. Chem. Soc.* 56, 678-681 (2011).
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