

# CURRICULUM VITAE

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## Personal Information

<b>Name</b>	Prof. Dr. Mohammad Saeed
<b>Father's Name</b>	Aziz ur Rehman
<b>Date of Birth</b>	08-02-1962
<b>Nationality</b>	Pakistani
<b>Marital status</b>	Married
<b>Address</b>	Department of Pharmacy, Qurtuba University of Science and Information Technology, Sector K-1, Phase 3, Hayatabad, Peshawar.
<b>E-mail</b>	<i>saeedrph2000@yahoo.com</i> <a href="mailto:saeedrph2002@hotmail.com">saeedrph2002@hotmail.com</a> <i>saeedrph@qurtuba.edu.pk</i> <i>saeedrph@gmail.com</i>

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## Qualification

<b>Degree</b>	<b>Period Attended</b>	<b>Year of Passing</b>	<b>Name of Institution Attended</b>
B. Pharm.	1981-1985	1985	Gomal University, D.I.Khan, Pak.
M. Pharm.	1986-1987	1987	University of the Punjab, Lahore, Pak.
Ph. D.	1993-1996	1996	University of Karachi, Karachi, Pak.
DIPLOMA	Islamic Revealed Knowledge	2008	Islamic University Malaysia.

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## Research

<b>Degree</b>	<b>Field of Specialization</b>	<b>Thesis Title</b>
M. Pharm.	Pharmaceutical Chemistry	Studies on the Stability of 1, 4-Benzodiazepine Derivatives
Ph. D.	Pharmaceutical Chemistry	Synthesis of Piperidine Derivatives having Potential

## **Projects**

### **Accomplished:**

1. ***“Blood levels of Serotonin, Tryptophan, Catecholamines and Estrogen and their Implications for mood changes during pregnancy and postpartum period”***. Two years, Research, Centre, International Islamic University Malaysia (IIUM) RM 42000.00.
2. ***“Pharmacological profile, phytochemical studies and metal analysis of Polygonatum verticillatum ”***. Two year, University of Peshawar, Peshawar, (0.210 Million).
3. ***“Design, Formulation, Optimization and Evaluation of Domperidone sustained release Tablets”***. Two year, University of Peshawar, Peshawar, (0.190 Million).
4. ***“Assessment of Potential Toxicity of smokeless tobacco product - naswar - available on the Pakistani market”***.  
Two year, University of Peshawar, Peshawar, (0.350 Million)
5. ***“Quantification and comparison of toxic heavy metals in selected medicinal plants and their respective branded formulations”***.  
Two year, University of Peshawar, Peshawar, (0.340 Million).
6. ***“Pharmacogenomic study of selected enzymes in cancer patients exposed to common tobacco products, in Khyber Pakhtunkhwa province of Pakistan”***  
  
H.E.C Funded under NRPU, Project No. 4073 (Rs. 6,067,095/- (Rs. six million sixty-seven thousand and ninety five only) for a period of 24 months).
7. ***“Evaluation of Common Cardio-vascular Diseases Risk variant (Allel) in Pashtun Population of Khyber Pakhtunkhwa Province”***  
H.E.C Funded under NRPU, Project No. 6691 (Rs. Rs.4606005/ (Four Million, Six Hundred Six Thousand, Five) for a period of 24 months).
8. ***“Evaluation of common allelic variants in DM 2 patients of Khyber Pakhtunkhwa population”*** Co PI in Khyber Pakhtunkhwa Higher Education Research Endowment Fund (KP HEREF) (Rs. 2.5 million for a period of 24 months).

## **Experience**

### **Teaching and Research**

- 1) One year (1986-87) working as Analyst in Medipak Pak.(Pvt.) Ltd., Lahore, Pakistan.
- 2) One year (1987-88) working as Production Pharmacist in May & Baker Pak.(Pvt.) Ltd., Wah Cantt., Pakistan.
- 3) Teaching of the subject of Pharmaceutical Chemistry for fourteen year as Lecturer/Assistant Professor at the Department of Pharmacy, University of Peshawar (1988-2002).
- 4) Teaching of the subject of Pharmaceutical Chemistry (Organic/Medicinal) for about five year as Assistant Professor/ Associate Professor at the Kulliyyah of Pharmacy, International Islamic University Malaysia (IIUM) (2002 to 2007).
- 5) Teaching of the subject of Pharmaceutical Chemistry (Organic/Medicinal) for about fifteen year as Professor at the Department of Pharmacy, University of Peshawar. ( 2007 to 2022.
- 6) Teaching of the subject of Pharmaceutical Chemistry (Organic) as Professor at the Department of Pharmacy, Qurtuba University of Science and Information Technology, Sector K-1, Phase 3, Hayatabad, Peshawar. (2022 to date).

### **Administrative**

- 1) Successfully completed 4 and a half year term (28-08-2014 to 21-05-2019) as Chairman of Department of Pharmacy, University of Peshawar.
  - 2) Served as Dean, Faculty of life and Environmental Sciences, University of Peshawar from 25-03-2021 to 07-02-2022.
  - 3) Successfully completed about two year term as Head of Department of Pharmacy, Qurtuba University of Science and Information Technology.
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## **Distinctions**

- 1) First Class First Position holder in B. Pharmacy
  - 2) Best Teacher Award (International Islamic University Malaysia, IIUM)
  - 3) Promising Researcher Award (International Islamic University Malaysia, IIUM)
  - 4) Research Productivity Award for Year 2012, 2013 and 2014 (Pakistan Council for Science and Technology)
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## **Conferences/Symposia/Workshops Attended**

1. Fifth International Symposium and U.S. Bi-national Workshop on Natural Product Chemistry. Jan. 5-9th, 1992, Karachi.
2. First International Conference of Pharmaceutical Science, Jan.18-21st, 1992, Karachi.
3. Nineteenth IUPAC Symposium on Chemistry of Natural Products, Jan. 16-20th, 1994, Karachi.
4. First ISBBP Symposium on Biochemistry and Biophysics, April 19-12th 1995, Karachi.
5. Second International conference on Pharmaceutical Sciences, Jan.2-5th 1997, Karachi.
6. International Pharmaceutical Congress and Exhibition 98, March 20-23rd 1998, Lahore.
7. International workshop on total quality control management of drugs, December 3-5th, 1999, Islamabad, Pakistan.
8. Second National Conference on “Good Pharmacy Practices- Tools for assuring Drug Quality and Safety” July 24-28<sup>th</sup>, 2000, Bara Gali Summer Camp, University of Peshawar, Peshawar.
9. Workshop on Postgraduate Rules and Regulations, August 11<sup>th</sup>, 2004, Flamingo Hotel, Kuala Lumpur.

10. Teaching Methodology Course for IIUM Academic Staff, October 4-14, 2004 at Centre for Educational Technology (CET) IIUM, Malaysia.
  11. Workshop for Internal Reviewers, November 23<sup>rd</sup> and 24<sup>th</sup>, 2004, Quality Hotel, Kuala Lumpur.
  12. Short Course on Drug Delivery Systems, February 23<sup>rd</sup> and 24<sup>th</sup>, 2005, Malaysian Institute for Nuclear Technology Research (MINT), MINT Complex, Bangi, Kuala Lumpur.
  13. The First International Conference on the Medicinal Uses of Honey- From Hive to Therapy August 26-28, 2006, Health Campus, University Sains Malaysia.
  14. Pharmacy Curriculum Review Workshop, August 4<sup>th</sup> and 5<sup>th</sup>, 2009, Bara Gali Summer Camp, University of Peshawar, Peshawar.
  15. 17<sup>th</sup> International Pharmacy Conference and Exhibition, 19<sup>th</sup> -21<sup>st</sup> April, 2012, Islamabad.
  16. 1st International Conference on Recent Innovation in Pharmaceutical Sciences (ICRIPS- 2015), 3<sup>rd</sup> to 5<sup>th</sup> March, Islamabad.
  17. Two day workshop on Strategic Management for HoDs under Modern University Governance Program (MUG) HEC in collaboration with British Council of Pakistan, February 05-06, 2015 Islamabad.
  18. National Conference on “Pharmacy As Profession: Challenges and Opportunities in the New Scenario.” August 21-23, 2015, Bara Gali Summer Camp, University of Peshawar, Peshawar.
  19. Bangladesh Cancer Congress 2015, November 16-17, 2015 Army Golf Club, Palm view Restaurant, Airport Road, Dhaka, Bangladesh.
  20. 3 Days Indigenous On Campus Training (IOT) July 28-29 and August 1, 2016, Centre For Human Resource and Career Development, University of Peshawar, Peshawar.
  21. 3--Day International Conference on “**Current Research on Chemical and Pharmaceutical Sciences**” during January 18-20, 2017 at Forman Christian College, Ferozepur Road, Lahore-Pakistan.
  22. Workshop on “Capacity Building of Faculty Members of Pharmacy Institutions” July 05-09, 2017, Bara Gali Summer Camp, University of Peshawar, Peshawar.
  23. 1st International Conference on Research Perspectives in Pharmaceutical Sciences (ICRPPS), held at Hamdard University, Karachi, from October 23-25, 2019.
  24. 3-Day National Seminar “The Changing Landscape in Pharmacy Profession” August 15-17, 2022) Bara Gali Summer Camp, University of Peshawar, Peshawar.
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## **Conferences/Symposia/Workshops Organized**

- 1) National conference on “Role of Pharmacist in health care system” July 20-23rd, 2001, Bara Gali Summer Campus, University of Peshawar, Peshawar.
  - 2) Pharmacy Curriculum Review Workshop, August 4<sup>th</sup> and 5<sup>th</sup>, 2009, Bara Gali Summer Campus, University of Peshawar, Peshawar.
  - 3) National Conference on ‘Pharmacy as Profession: Challenges and Opportunities in the new scenario’ August 21-23, 2015, Bara Gali Summer Campus, University of Peshawar, Peshawar.
  - 4) Workshop on “Capacity Building of Faculty Members of Pharmacy Institutions” July 05-09, 2017, Bara Gali Summer Camp, University of Peshawar, Peshawar.
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## **Research Supervision**

M.Phil.	04 Completed
Ph.D.	13 Completed
Ph.D.	02 (in progress)

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## **Membership at National level**

- 1) Served for three years as member Central Licensing Board, Drug Regulatory Authority of Pakistan (DRAP), Islamabad.
  - 2) Served for three years as member Pharmacy Council of Pakistan, Islamabad.
  - 3) Served for three years as Member Drug Court, Khyber Pakhtunkhwa, Peshawar.
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## **Research Interest**

Isolation and synthesis of new pharmaceutical compounds from natural sources such as traditional medicinal herbs/plants, and determine their structure-activity relationship by using various analytical/chromatographic techniques; such as column chromatography, high performance liquid chromatography (HPLC), gas chromatography (GC) and thin/thick layer chromatography (TLC), Bio-gel column chromatography. Current area of research interest is on the genomic of various Non-communicable diseases, such as Diabetes, Cancer, Hypertension and Cardio-Vascular diseases, and research students are working on various aspects of these diseases.

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## **Research Publications**

1. 2024. Asif Jan, Ramzi A. Mothana, Abdullah R. Alanzi, Jun-Ya Kaimori, Syed Shaukat Ali, Tahir Muhammad, **Mohammad Saeed**, Rani Akbar and Mehtab Khan. Pharmacogenomic Study of Selected Genes Affecting Amlodipine Blood Pressure Response in Patients with Hypertension , *Pharmacogenomics and Personalized Medicine*, DOI <https://doi.org/10.2147/PGPM.S481068>473-468.
2. 2023. Waheed Ali Shah, Asif Jan, Muhammad Asghar Khan, **Mohammad Saeed**, Naveed Rahman, Zakiullah, Mohammad Sajjad Afridi, Rani Akbar and Fazli Khuda. Association between Aldosterone Synthase (*CYP11B2*) Gene Polymorphism and Hypertension in Pashtun Ethnic Population of Khyber Pakhtunkwaha, Pakistan *Genes*, **14(6)**, **1184**; <https://doi.org/10.3390/genes14061184>.
3. 2023. Asif Jan, **Mohammad Saeed**, Ramzi A. Mothana, Tahir Muhammad, Naveed Rahman, Abdullah R. Alanzi and Rani Akbar. Association of CYP2C9 Allele with Sulphonylurea-Induced Hypoglycaemia in Type 2 Diabetes Mellitus Patients: A Pharmacogenetic Study in Pakistani Pashtun Population. *Biomedicines*, *11(8)*, 2282; <https://doi.org/10.3390/biomedicines11082282>.
4. 2023, Naveed Rahman , Zakiullah , , Asif Jan , **Muhammad Saeed** , Muhammad Asghar Khan , Zahida Parveen , Javaid Iqbal , Sajid Ali , Waheed Ali Shah , Rani Akbar and Fazli Khuda. Association of APOE (rs429358 and rs7412) and PON1 (Q192R and L55M) Variants with Myocardial Infarction in the Pashtun Ethnic Population of Khyber Pakhtunkhwa, Pakistan, *Genes*, *14*, 687. <https://doi.org/10.3390/genes14030687>.
5. 2022, Asif Jan, **Muhammad Saeed**, Zakiullah, RaniAkbar and HamayunKhan. Evaluation of Type2 Diabetes RiskVariants (Alleles) in the Pashtun Ethnic Population of Pakistan. Journal of the ASEAN Federation of Endocrine Societies. DOI: [10.15605/jafes.037.S3](https://doi.org/10.15605/jafes.037.S3)
6. 2021. Naveed Muhammad, Sana Ullah, Abdur Rauf, Muhammad Atif, Seema Patel, Muhammad Israr,Sajid Akbar, Omer Shehzad, **Muhammad Saeed**, Saud Bawazeer, Md. Sahab Uddin, Marina Derkho, Mohammad Ali Shariati, and Mohammad S. Mubarak. Evaluation of the anti-diarrheal effects of the whole plant extracts of *Cuscuta reflexa* Roxb in pigeons. *Toxicol Rep.* 2021; *8*: 395–404.
7. 2021. Asif Jan, **Muhammad Saeed**, Muhammad Hussain Afridi, Fazli Khuda, Muhammad Shabbir , Hamayun Khan , Sajid Ali , Muhammad Hassan , Samiullah , Rani Akbar and Zakiullah.

Association of HLA-B Gene Polymorphisms with Type 2 Diabetes in Pashtun Ethnic Population of Khyber Pakhtunkhwa, Pakistan. Journal of Diabetes Research DOI: 10.1155/2021/6669731

8. 2020. Samreen Pervez, **Muhammad Saeed**, Haroon Khan, Rukhsana Ghaffar, Antinociceptive and Anti-inflammatory like effects of *Berberis baluchistanica*, Current Molecular Pharmacology, DOI : 10.2174/1874467213666201204153045
9. 2020. Naila Raziq, **Muhammad Saeed**, Muhammad Shaiq Ali, Mehreen Lateef, Muhammad Shahid, Shehla Akbar & Salman Zafar, Muriolide, a novel antioxidant lactone from *Ranunculus muricatus*, Natural Product Research DOI.org/10.1080/14786419.2020.1758091
10. 2020. Zakiullah, **Muhammad Saeed**, Muhammad Ovais, Fazli Khuda, Nabila Javed, Sajid Ali, Muhammad Khisroon Association Of Non-Hodgkin Lymphoma Risk With CYP1A1, GSTM1 And GSTT1 Gene Variants, In Tobacco Addicted Patients Of Pashtun Ethnicity Of Khyber Pakhtunkhwa, Pakistan. Pak. J. Pharm. Sci. 33(6), pp. 2617-2624.
11. 2020. Noor Ul Ain Nawaz, **Muhammad Saeed**, Khalid Mohammed Khan, Irfan Ali, Huma Aslam Bhatti, Sabi-Ur-Rehman, Muhammad Shahid & Shaheen Faizi, Isolation of tyrosine derived phenolics and their possible beneficial role in anti-inflammatory and antioxidant potential of *Tithonia tubaeformis*, Natural Product Research, DOI: 10.1080/14786419.2019.1705813
12. 2019. Zakiullah, **Muhammad Saeed**, Nabila Javed, Fazli Khuda and Muhammad Ovais Association of nasopharyngeal cancer risk with genetic polymorphisms of drug-metabolizing enzyme genes *GSTM1*, *GSTT1* and *CYP1A1* (rs4646903 variant), in tobacco addicted patients of Pashtun Ethnicity of Khyber Pakhtunkhwa Province of Pakistan, Pak. J. Pharm. Sci. 32(5), pp.2107-2116.
13. 2019. Samreen Pervez , Muhammad Saeed , Muhammad Shaiq Ali, Itrat Fatima, Haroon Khan, and Irfan Ullah, Antimicrobial and Antioxidant Potential of Berberisinol, a New Flavone from *Berberis baluchistanica*. Chemistry of Natural Compounds, 55(2), pp 247–251.
14. 2018. Samreen Pervez , **Muhammad Saeed** , Haroon Khan, Muhammad Shahid and Irfan Ullah. Nephroprotective Effect of *Berberis baluchistanica* against gentamicin- induced nephrotoxicity in rabbit. Bangladesh Journal of Pharmacology, 13, 222-230.
15. 2018. Attiqa Naz, Muhammad Saeed, Rukhsana Ghaffar and Mehrin Shirazi, *In vivo* biological investigation of methanolic extract of *Thymus linearis* whole plant. Am J Ethnomed 5 (2) 1-5.
16. 2018. Noor Ul Ain Nawaz, **Muhammad Saeed**, Khalid Rauf, Muhammad Usman, Mehreen Arif, Zaki Ullaha and Naila Raziq. Antinociceptive effectiveness of *Tithonia tubaeformis* in a vincristine model of chemotherapy-induced painful neuropathy in mice. Biomedicine and Pharmacotherapy, 103, 1043-1051.
17. 2017. **Saeed Muhammad** , Awan A. Aleem , Naveed Muhammad , Mehmod Khalid, Ajmal Khan, Umar Farooq, Izhar Ahmad , Farhan A. Khan and Syed Majid Bukhari, Investigation of

antipyretic activity of *Viola Serpens* on Brewer's yeast induced pyrexia. *Acta Poloniae Pharmaceutica ñ Drug Research*, 74 (6) 1797-1802.

18. 2017. Naveed Muhammad and **Muhammad Saeed**, Diuretic, insecticidal and leishmanicidal profile of the whole plant of *Viola betonicifolia* , *African Journal of Pharmacy and Pharmacology*, 12(45), 573-576.
19. 2017. Ghazala Shaheen, Asif Ali, Shafiq Ahmad Tariq, Safi Ullah, Nuzhat Sultana, Inayat Shah, Naeem Khan, Syed Muhammad Ashhad Halimi, **Muhammad Saeed** and Syed Hamid Habib, Evaluation of hepatotoxic and nephrotoxic effects of piroxicam sulfonated derivatives, *Pak J Physiol*. 13(4) 18-22.
20. 2017. Rukhsana Ghaffar, **Muhammad Saeed**, Manzoor Ahmad, Haroon Khan. Antinociceptive Activity of the Crude Methanolic Extract and Different Fractions of *Viola serpens* Wall” , *Jour. Chem. Soc. Pak.*, 39(4), 701-705, **Pakistan**.
21. 2017. Syed Muhammad Ashhad Halimi, **Muhammad Saeed** , Safiullah and Khalid Muhammed Khan Pharmacological Evaluation of Marginally Designed New Profen Analogues. *West Indian Medical Journal* , DOI: [10.7727/wimj.2016.400](https://doi.org/10.7727/wimj.2016.400)
22. 2017. Syed Muhammad Ashhad Halimi, **Muhammad Saeed** , Safiullah and Khalid Muhammed Khan. Pharmacological evaluation of novel dimers of an arylpropionic acid class of non-selective cyclooxygenase inhibitors. *Tropical Journal of Pharmaceutical Research*, 16 (2): 327-336.
23. 2017. Farah Gul, Khalid Mohammed Khan, Achyut Adhikari, Salman Zafar, Muhammad Akram and **Muhammad Saeed**. Antimicrobial and antioxidant activities of a new metabolite from *Quercus incana*, *Natural Product Research* DOI: 10.1080/14786419.2016.1266447. 31:16, 1901-1909.
24. 2017. Naila Raziq, **Muhammad Saeed**, Muhammad Shaiq Ali, Salman Zafar, Muhammad Shahid and Mehreen Lateef. A new glycosidic antioxidant from *Ranunculus muricatus* L. (Ranunculaceae) exhibited lipoxxygenasae and xanthine oxidase inhibition properties, *Natural Product Research* DOI: 10.1080/14786419.2016.1236098
25. 2016. Rukhsana Ghaffar, **Muhammad Saeed**, Manzoor Ahmad, Haroon Khan and Shujaat Ahmad. *In vivo* anti-inflammatory characterization of crude extract and solvent fractions of *Viola serpens*. *Pure Appl. Biol.* DOI.org/10.19045/bspab.2016.50162
26. 2016. **Muhammad Saeed**, Farah Gul, Zakiullah, Syed Naemuddin Gilani, Yaqoob Ur Rehman, Inamullah Khan, Naveed Muhammad and Haroon Khan. Antinociceptive and anti-inflammatory studies on methanolic extract of fruit of *Quercus incana* in animal models. *Tropical Journal of Pharmaceutical Research*, 15 (8): 1691-1696.
27. 2016. Waheed Ali Shah, **Muhammad Saeed**, Zakiullah, Fazli Khuda and Faridullah Khan, Comparison of toxic heavy metals concentration in medicinal plants and their respective

branded herbal formulations commonly available in Khyber Pakhtunkhwa, Pak. J. Pharm. Sci. **Pakistan**, 29(4) 1251-1256.

28. 2016. Safi Ullah, **Muhammad Saeed**, Syed Muhammad Ashhad Halimi, Muhammad Imran Fakhri, Khalid Mohammed Khan, Ikhtiar Khan, Abdul Hameed, and Shahnaz Perveen. Piroxicam Sulfonates Biology-Oriented Drug Synthesis (BIODS), Characterization and Antinociceptive Screening. Medicinal Chemistry Research (DOI: 10.1007/s00044-016-1571-5) 25: 1468-1475.
29. 2016. Haroon Khan , **Muhammad Saeed** , Anwarul-Hassan Gilani, Naveed Muhammad , Najeeb ur Rehman, Malik Hassan Mehmood and Nadeem Ashraf. Antispasmodic and antidiarrheal activities of rhizomes of *Polygonatum verticillatum* maneuvered predominately through activation of K<sup>+</sup> channels: Components identification through TLC. Toxicology and Industrial Health, 32(4) 677–685.
30. 2016. Naila Raziq, **Muhammad Saeed** , Muhammad Shahid , Naveed Muhammad, Haroon Khan and Farah Gul. Pharmacological basis for the use of *Hypericum oblongifolium* as a medicinal plant in the management of pain, inflammation and pyrexia. BMC Complementary and Alternative Medicine, DOI: 10.1186/s12906-016-1018-z. 16(1): 41.
31. 2016. Naveed Muhammad, Ajmal Khan, **Muhammad Saeed**, Haroon Khan , Saleha Suleman, Safiullah Khan , Zahid Khan, Umar Farooq , Huma Shareef and Muhammad Zahoor. Fixed Oil Composition and Biological Screening of *Viola betonicifolia* in Different Solvents. Jour. Chem. Soc. Pak., 38(1), 115-121, **Pakistan**.
32. 2016. Haroon Khan, Muhammad Saeed, Naveed Muhammad, Abdul Rauf, Amir Zada Khan, and Rooh Ullah. Antioxidant profile of constituents isolated from *Polygonatum verticillatum* rhizomes Toxicology and Industrial Health 32: 138-142. 0748233713498454, first published on September 30, 2013 as doi:10.1177/0748233713498454
33. 2015. Murad Ali Khan, Haroon Khan, **Muhammad Saeed**, Abdul Rauf, Tayaba Basharat and Afsar Khan. Urease Inhibition of Fixed Oils and Fractions of *Caralluma tuberculata*: Component Identification by GC-MS. Jour. Chem. Soc. Pak., **Pakistan**, 37(5), 993-998.
34. 2015. Zakiullah, Ahmadullah, Muhammad Khisroon , **Muhammad Saeed**, Ajmal Khan, Fazli Khuda , Sajid Ali , Nabila Javed4 , Muhammad Ovais , Nosheen Masood , Nasir Khan Khalil and Mohammad Ismail. Genetic Susceptibility to Oral Cancer due to Combined Effects of GSTT1, GSTM1 and CYP1A1 Gene Variants in Tobacco Addicted Patients of Pashtun Ethnicity of Khyber Pakhtunkhwa Province of Pakistan , Asian Pacific Journal of Cancer Prevention DOI:http://dx.doi.org/10.7314/APJCP.2015.16.3.1145 G.
35. 2015. Naila Raziq, **Muhammad Saeed**, Muhammad Shaiq Ali, Salman Zafar and Imran Ali, *In vitro* Anti-oxidant Potential of New Metabolites from *Hypericum oblongifolium* (*Guttiferae*), Natural Product Research. 29(24), 2265–2270, DOI: org/10.1080/14786419.2015.1009064.

36. 2015. Haroon Khan, **Muhammad Saeed**, Abdur Rauf, Muhammad Atif Khan and Naveed Muhammad Antimicrobial and inhibition on heat-induced protein denaturation of constituents isolated from *Polygonatum verticillatum* rhizomes Natural Product Research, 29:22, 2160-2163.
37. 2015. Attiq Naz, **Muhammad Saeed**, Muhammad Medrar Hussain and Muhammad Saqib Ishaq. *In vitro* phytochemical and antimicrobial screening of *Thymus linearis*, Bangladesh Journal of Pharmacology, 10, 21-26.
38. 2015. Haroon Khan, **Muhammad Saeed**, Naveed Muhammad, Rukhsana Gaffar, Farah Gul and Naila Raziq. Lipoxygenase and urease inhibition of the aerial parts of the *Polygonatum verticillatum*, Toxicology and Industrial Health, Vol.31 (8), pp.758-763.
39. 2014. Haroon Khan, **Muhammad Saeed**, Murad Ali Khan, Naveed Muhammad, Afsar Khan, Asmat Ullah and Safiullah, Lipoxygenase and Urease Inhibition of Extracts of *Polygonatum verticillatum* Rhizome: Augmented by its Isolated Compound, Santonin. Jour. Chem. Soc. Pak., **Pakistan**, 36(5), 865-869.
40. 2014. Naveed Muhammad, **Muhammad Saeed**, Ajmal Khan, Achyut Adhikari, Abdul Wadood, Khalid Mohammed Khan and Vincenzo De Feo, A New Urease Inhibitor from *Viola betonicifolia*. Molecules, 19, 16770-16778; doi:10.3390/Molecules191016770.
41. 2014. Zakiullah, **Muhammad Saeed**, Sajid Ali, Nabila Javed, Muhammad Khisroon, Basir Muhammad, Fazli Khuda, Saeed Ahmad, Mohammad Ismail, Genetic Susceptibility to Esophageal Cancer due to CYP1A1 Gene Variant rs4646903 in Tobacco Addicted Patients of Pashtun Ethnicity: a Case Control Study in Khyber Pakhtunkhwa Province of Pakistan. Asian Pacific Journal of Cancer Prevention, 15(16), 6715-20.
42. 2013. Haroon Khan, **Muhammad Saeed**, Malik Hassan Mehmood, Najeeb-ur- Rehman, Naveed Muhammad, Ikram-ul- Haq, Nadeem Ashraf, Kamal Eldin H El-Tahir and Anwarul H Gilan, Studies on Tracheorelaxant and Anti-inflammatory Activities of Rhizomes of *Polygonatum verticillatum*, BMC Complementary and Alternative Medicine. DOI:10.1186/1472-6882-13-197.
43. 2013. Haroon Khan, Muhammad Saeed, Naveed Muhammad and Samreen Perviz, Phytochemical analysis, antibacterial and antifungal assessment of the aerial parts of the *Polygonatum verticillatum*, Toxicology and Industrial Health, DOI: 10.1177/0748233713512362.
44. 2013. Naveed Muhammad, Najeeb-ur-Rehman, Haroon Khan, **Muhammad Saeed**, Anwar ul Hassan Gilani, Prokinetic and laxative effects of the crude methanolic extract of *Viola betonicifolia* whole plant in rodents. BMC Complementary and Alternative Medicine. DOI:10.1186/1472-6882-13-70.

45. 2013. Naveed Muhammad, **Muhammad Saeed**, Haroon Khan, Achyut Adhikari and Khalid Muhammad Khan, Muscle Relaxant and Sedative-Hypnotic Activities of Extract of *Viola betonicifolia* in Animal Models Supported by Its Isolated Compound, 4-Hydroxy Coumarin, a. Journal of Chemistry, Article ID 326263, <http://dx.doi.org/10.1155/2013/326263>
46. 2013. Naveed Muhammad, **Muhammad Saeed**, Mughal Qayum, Muhammad Zia-Ul-Haq and Haroon Khan. Antimicrobial Screening of *Viola betonicifolia*, Middle-East Journal of Scientific Research 15 (1): 55-60.
47. 2013. Haroon Khan, **Muhammad Saeed**, Naveed Muhammad, Shafiq Ahmed Tariq, Rukhsana Gaffar, and Farah Gul. Antimalarial and free radical scavenging activities of aerial parts of the *Polygonatum verticillatum* (L) All and identification of chemical constituents by GC MS. Pakistan Journal of Botany, 45(2), 497-500.
48. 2013. Naveed Muhammad, **Muhammad Saeed**, Haroon Khan, Naila Raziq and Syed Muhammad Ashhad Halimi. Antipyretic and anticonvulsant activity of n-hexane fraction of *Viola betonicifolia*. Asian Pac. J. Trop. Biomed, 3(4), 280-283.
49. 2013. Naveed Muhammad, Barkatullah, Muhammad Ibrar, Haroon Khan, **Muhammad Saeed**, Amir Zada Khan, Waqar Ahmad Kaleem. In vivo screening of essential oils of *Skimmia laureola* leaves for antinociceptive and antipyretic activity. Asian Pac. J. Trop. Biomed, 3(3), 202-206
50. 2013. Haroon Khan, **Muhammad Saeed**, Murad Ali Khan, Izhar-ul-Haq, Naveed Muhammad and Rukhsana Ghaffar. Isolation of long-chain esters from the rhizome of *Polygonatum verticillatum* with potent tyrosinase inhibition. Medicinal Chemistry Research, 22(5), 2088-2092.
51. 2013. Haroon Khan, **Muhammad Saeed**, Anwar ul Hassan Gilani, Naveed Muhammad, Ikram-ul-Haq, Nadeem Ashraf, Najeeb-ur-Rehman and Ashhad Haleemi. Antipyretic and anticonvulsant activity of *Polygonatum verticillatum*: comparison of rhizomes and aerial parts, Phytotherapy Research. 27(3), 468-471.
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