Curriculum Vitae (CV) –Syed Ali Musstjab Akber Shah Eqani

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| 1. **Field of Expertise**
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| Environment, Geo-medical, and Water Specialist |
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| 1. **Name of Expert**
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| Syed Ali Musstjab Akber Shah Eqani |
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| 1. **Date of Birth:**
 | 09/04/1984 | **Citizenship:** | Pakistan |
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| 1. **Complete personal contact details**:
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| E-mail Address: ali\_ebl2@yahoo.com Permanent Residential Address: P.O. Dhingana, Tehseel Mankera, District Bhakkar, Pakistan.  |
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| 1. **Education*:***
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| * **Visiting researcher, D-lab, MIT, MA, USA**
* **Post Doctorate, Health and Environment** IUE, CAS, Xiamen China
* **PhD, Water Quality and Ecotoxicology**, Quaid-e-Azam University, Islamabad, Pakistan. 2008-2012
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| * **MS, Water Quality and Ecotoxicology**, Quaid-e-Azam University, Islamabad, Pakistan. 2006-2008
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| * **BS, Soil and Environment**, Gomal University, DI Khan, Pakistan. 2001-2006
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| 1. **Current Research Activity:**
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| * **I with Dr Joel Podgorski and Prof Michael Berg, Department of Water Resources and Drinking Water, Eawag, Dübendorf, Switzerland** investigating the Molecular to global scale biogeochemical processes that control the mobility and cycling of health-impacting geogenic contaminants (particularly Arsenic and Fluoride) into the groundwater of Pakistan.
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| 1. **Course Taught:**
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| **Course title** | **Level of course** | **Evaluation score** | **Major focus** |
| **Environmental Biology** | **Under-Graduate (BS programme)** | **>90%** | Ecosystem balance; Biodiversity valuing; Major environmental problems; Biodiversity conservation approaches: |
| **Environmental Toxicology** | **Graduate (MS/PhD programme)** | **>90%** | Knowledge about environmental pollutants; Source, pathways and metabolism of toxicants, health impacts of the environmental pollutants; Risk assessment approaches. |
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| 1. **Employment Record**:
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| **From** | 2012 | **To** | Present |
| **Employer** | COMSATS University, Islamabad, Pakistan  |
| **Position(s) Held** | Assistant Professor  |
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| **From** | 2015 | **To** | 2017 |
| **Employer** | Institute of Urban Environment, Chinese Academy of Sciences, China |
| **Position(s) Held** | Visiting Researcher |
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| **From** | 2011 | **To** | 2012 |
| **Employer** | Quaid-E-Azam University, Islamabad, Pakistan |
| **Position(s) Held** | Visiting Faculty, Department of Environmental Sciences |
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| **From** | 2009 | **To** | 2011 |
| **Employer** | Chinese Academy of Sciences, China |
| **Position(s) Held** | Visiting Research Fellow |
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| **From** | 2005 | **To** | 2009 |
| **Employer** | Ecotoxicology Research Programme, National Agricultural Research Council, Islamabad, Pakistan |
| **Position(s) Held**1. **Research Collaboration network**
 | Visiting Research Fellow* **Department of Water Resources and Drinking Water, Eawag, Dübendorf, Switzerland** (2013-present). Dr Eqani with scientists from Eawag investigating the Molecular to global scale biogeochemical processes that control the mobility and cycling of health-impacting geogenic contaminants (particularly Arsenic and Flouride) into the groundwater.
* **University of Rhodes Island, USA** (2009-pressent). (Dr Eqani with help of scientists from Lancaster University, have been investigating the status of POPs in Pakistan and its contribution towards total Regional and Global POPs emission).
* **Institute of Urban Environment, Chinese Academy of Sciences, China** (2012-present). (Dr Eqani with the scientists from IUE evaluating the trace metals fate into living cells).
* **Department of Ecotoxicology and Environment, Koblenz University, Landau, Germany** (2013-2018). (Dr Eqani with the scientists from KOBLENZ University evaluating the non-polar toxicants from the Indus River, Pakistan: Using aquatic passive sampler approach).
* Toxicological Centre, **University of Antwerp, Belgium** (2012-2015). (Dr Eqani with a group of 15 scientists, conducting studies aimed at investigating the extent and health risks associated with the “Persistent Organic Contaminants (POPs), specifically Flame Retardants from different areas of Pakistan").
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| 1. **Detailed Tasks Assigned:**
 | 1. **Work Undertaken that Best Illustrates Capability of Expert:**
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| * Literature review and data collection on different contaminant types
* Literature review and data collection on (Health impacting chemicals) relevant to pathways
* Initial visits and sampling for water quality
* Water quality data analysis
* Input to water quality sampling SOPs and selection of water quality indicators
* Input and advise to GIS Specialist on GIS based mapping and analysis for risk (as part of GIS inventory)
* Water quality and fish sampling and food sampling under supervision
* Human health Risk assessment
* Human samples collection and epidemiological survey
* Human biomonitoring of POPs and Heavy metals
* Exposure pathway analysis of environmental pollutants
 | **Name of assignment or project:** Geogenic Contaminants (Arsenic and Fluoride) in Ground Water of Pakistan**Year:** 2017-present**Location:** Pakistan**Client:** Funded by NSFC-China and SDC**Main project features:** The objective of the project was to develop a quality information management system for geogenic contaminants (arsenic and fluoride) for groundwater in Pakistan. The Project focused on risk determination based on the groundwater quality dataset and first-ever statistically-based arsenic/fluoride hazard model and health risk map for Pakistan**Positions held:** Principal Investigator/Lead Scientist from Pakistan**Activities performed:** * Designed groundwater sampling campaigns and supervised the team to conduct groundwater sampling;
* Carried out research activities to contribute towards nationwide groundwater arsenic/fluoride risk modelling;
* Performed laboratory analyses for different trace elements and other in-situ water quality parameters;
* Helped to create hazard and risk maps of arsenic-contaminated groundwater;
* Report writing and development of journal articles (<http://advances.sciencemag.org/content/advances/3/8/e1700935>);
* Provided support for identifying mitigation measures for the provision of safe drinking water in different high-risk areas;
* Designed and delivered training programs on how to deal with geogenic water contamination
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| **Name of assignment or project:** Evaluating the non-polar toxicants (POPs) from the Indus River, Pakistan**Year:** 2013-present**Location:** Indus River, Pakistan**Client:** Higher Education Commission, Pakistan**Main project features:** The project, implemented in collaboration with Koblenz University and University of Rhode Island aimed to measure the contamination of major persistent organic pollutants (POPs), such as organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) in water, soil and air samples from the Indus River basin**Positions held:** Principal Investigator**Activities performed:** * Designed the sampling plan and methodology;
* Carried out passive sampling of water, air, soil and fish from different sampling stations along the Indus river;
* Supervised POPs lab analysis in air, water, and soil samples;
* Conducted GIS-based predictive risk mapping of Indus floodplain;
* Applied an integrated multivariate statistical approach to the POPs-contamination data to address the sources and the current illegal use of these banned chemicals;
* Contributed towards report writing and journal article publication
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| **Name of assignment or project:** Toxic metal signatures in the food web of River Chenab, PakistanYear: 2012-2014**Location:** Pakistan**Client:** HEC, Pakistan**Main project features:** Assessment of the concentration of heavy metals in the water, sediments samples and dominant fish species throughout the course of River Chenab, in order to better evaluate the potential health risks associated with fish consumption by the local residents**Positions held:** Principal Investigator**Activities performed:** * Designed the sampling plan;
* Collected water, sediment, and fish from River Chenab;
* Conducted monitoring of In-situ water quality parameters;
* Undertook risk mapping for in-situ water quality parameters and trace elements contamination in sediment and fish;
* Calculated potential health risk toxicity associated with the consumption of different fish species of river Chenab in Pakistan;
* Contributed towards report writing and journal article publication
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|  | **Name of assignment or project**: Trace metals exposure and autism-related epigenetic alterations in the children population from Pakistan**Year:** 2014-15**Location:** Pakistan**Client:** NSFC, China**Main project features:** Develop a better understanding of the extent of trace metal exposure in child populations and identify possible connections between trace metal exposure and autism spectrum disorder (ASD) related epigenetic alterations**Positions held:** Principal Investigator**Activities performed:** * Collected and analyzed trace elements from hair samples of children with autism;
* Carried out the statistical analysis to explore the role of other risk factors (i.e. socio-economic status, land use, gender etc.);
* Trained the local students and researchers in research methods;
* Contributed towards report writing and journal article publication
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|  | **Name of assignment or project:** Organochlorinated Contaminants in the Riverine ecosystem of Pakistan**Year:** Completed (2008-12)**Location:** Pakistan**Client:** HEC, Pakistan and PWP**Main project features:** The project aimed to gather and provide data on the occurrence of organochlorine contaminants (POPs) in the River Chenab, Pakistan, during the period 2007-09 and their contribution of Pakistan towards global POPs Emissions **Positions held:** Team Member**Activities performed:** * Collected and analyzed residues of POPs in water, sediment and fish collected from 25 sampling sites;
* Conducted calculations of spatial variations;
* Studied the physicochemical and biological properties of collected samples;
* Predicted the accumulation patterns in the collected fish species
* Contributed towards report writing and journal article publication
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|  | **Name of assignment or project:** Pesticides residues in the exportable commodities from Pakistan**Year:** 2012-13**Location:** Pakistan**Client:** FAO Participant**Main project features:** The project identified novel techniques in the field of pesticide residue analysis followed by hands-on practical training for workers and farmers on health risks associated with pesticides particularly via ingestion of via fruits and vegetables**Positions held:** Team member**Activities performed:** * Carried out a literature review and conducted surveys in selected areas of high pesticide usage throughout the country;
* Designed and supervised the sampling of soil, fruits and vegetables followed by analysis;
* Conducted risk mapping for pesticide contamination
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|  | **Name of assignment or project:** Predictive risk mapping of trace elements in drinking water resources in the Indus delta floodplains **Year:** 2012-2014**Location:** Pakistan**Client:** Koblenz University, Landau, Germany**Main project features:** The objective of the project was to develop country-wide risk maps to predict the probability of toxic metals contamination in groundwater resources**Positions held:** Principle investigator**Activities performed:** * Conducted literature review and supervised collection of soil and water samples;
* Predicted the concentrations of arsenic and other trace elements in surface and groundwater resources;
* Developed country-wide risk maps
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|  | **Name of assignment or project:** Geogenic specific environmental risk factors in the context of urbanization along China Pakistan Economic Corridor (CPEC)**Year:** 2014-16**Location:** Pakistan**Client:** NSFC, China, IUE, CAS, China and HEC Pakistan**Main project features:** The project investigated the presence of man-made and geogenic contaminants in drinking water resources, soil, and food commodities (localized agriculture grains and fodders) along CPEC and risk assessment of these contaminants on human health**Positions held:** Team member (Lead researcher from Pakistan)**Activities performed:** * Supervised teams to collect the samples of water, dust, fish, food grains;
* Monitored the in-situ water quality parameters by using portable Hydro Lab (MS-5, Surveyor Hach Environmental);
* Measured trace elements by using inductively coupled plasma mass spectrometry (ICP-MS);
* Conducted health risk estimations associated with contaminant consumption by the local human population
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|  | **Selected Publications (full list of publications is available at google scholar.**  **citations 3700, h-index 34, I10-index 61):**1. Bibi S, Habib R, Abbas SS, Khan S, **Eqani SAMAS,** Nurulain SM, Kamil K. Influence of the chronic groundwater fluoride consumption on cholinergic enzymes, ACHE and BCHE gene SNPs and pro-inflammatory cytokines: A study with Pakistani population groups. Science of the Total Environment, 2023 880(21):163359.
2. Ghaffar B, SM Ali, **SAMAS Eqani**. Global Scientific Production on Fluoride Contamination Research: A Bibliometric Analysis From 2011 TO 2020. Fluoride, 2022 55(2), 102-111.
3. Sohail M, **Eqani SAMAS**, Ilyas S, H Bokhari, N Ali, J.E. Podgorski, Muhammad S, Adelman D, R Lohmann. Gaseous and Soil OCPs and PCBs along the Indus River Pakistan: Spatial Pattern and Air-Soil Gradients. Environ. Sci. Processes Impacts, 2023,**25**, 531-541.
4. N Ali, MI Rashid, NAAlhakamy, SH Alamri, **Eqani SAMAS**. Profiling of phthalates, brominated, and organophosphate flame retardants in COVID-19 lockdown house dust; implication on the human health. Science of Total Environment, 2022, 158779, 856.

1. Khanam T, Liang S, Xu S, **Eqani SAMAS\***, Shafqat MN, Rasheed H, Bibi N, Shen H, Zhang J. Arsenic exposure induces urinary metabolome disruption in Pakistani male population. Chemosphere.2022, 312; 137228.
2. Sohail M, **Eqani SAMAS**, MZ Hashmi. Occurrence and fate of micropollutants in soils, Book Chapter, Advances in Pollution Research, 2022, 295-304.
3. M Sohail, **SAMAS Eqani**, H Bokhari, MZ Hashmi, N Ali, A Alamdar, JE Podgorski, D Adelman. R Lohmann. Freely dissolved organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) along the Indus River Pakistan: spatial pattern and risk assessment. Environmental Science and Pollution Research (2022) 29:65670–65683.
4. Y Ling, J Podgorski, M Sadiq, H Rasheed, **Eqani SAMAS**, M Berg. Monitoring and prediction of high fluoride concentrations in groundwater in Pakistan. Science of Total Environment. 2022, 839; 156058.
5. Nabgha-e Amen, **Eqani SAMAS\*,** K Bilal, N Ali, N Rajeh, D Adelman, H Shen, R Lohmann. Molecularly tracing of children exposure pathways to environmental organic pollutants and the Autism Spectrum Disorder Risk. Environmental Pollution, 2022, 315, 120381
6. S Amir, M Tzatzarakis, C Mamoulakis, J Haris Bello, **Eqani SAMAS**, E Vakonaki, M Karavitakis, S Sultan, F Tahir, STA Shah, A Tsatsakis, Impact of organochlorine pollutants on semen parameters of infertile men in Pakistan, Environmental Research, 2021, 195, 110832.
7. Ali, N Alhakamy, Nabil A.; Ismail, Iqbal M.I.; Nazar, Ehtisham; Summan, Ahmed S.; **Eqani SAMAS**; M, Govindan 2021. "Exposure to Phthalate and Organophosphate Esters via Indoor Dust and PM10 Is a Cause of Concern for the Exposed Saudi Population" Int. J. Environ. Res. Public Health 18, no. 4: 2125.
8. Nabgha-e-Amen**, Eqani SAMAS**\*, Khurram F, Alamdar A, Tahir A, Shah STA, Nasir A, Javed S, Bibi N, Hussain A, Rasheed H, Shen H. Environmental exposure pathway analysis of trace elements and autism risk in Pakistani children population. Sci Total Environ. 2020, 10;712:136471.
9. Khanam T, **Eqani SAMAS\*,** Zhang J, Wang H, Zhang Y, Yang J, Sadiq M, Rasheed H, Shen H. Urinary profiles of selected metals and arsenic and their exposure pathway analysis in four large floodplains of Pakistan. Sci Total Environ. 2020, 1;737:139586
10. [Salem Ali Albar HM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Salem%20Ali%20Albar%20HM%5BAuthor%5D&cauthor=true&cauthor_uid=31727497), [Ali N](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ali%20N%5BAuthor%5D&cauthor=true&cauthor_uid=31727497), **Eqani SAMAS**, [Alhakamy NA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Alhakamy%20NA%5BAuthor%5D&cauthor=true&cauthor_uid=31727497), [Nazar E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Nazar%20E%5BAuthor%5D&cauthor=true&cauthor_uid=31727497), [Rashid MI](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rashid%20MI%5BAuthor%5D&cauthor=true&cauthor_uid=31727497), [Shahzad K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shahzad%20K%5BAuthor%5D&cauthor=true&cauthor_uid=31727497), [Ibrahim Ismail IM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ibrahim%20Ismail%20IM%5BAuthor%5D&cauthor=true&cauthor_uid=31727497). Trace metals in different socioeconomic indoor residential settings, implications for human health via dust exposure. Ecotoxicology Environmental Safety, 2020,12:109927.
11. Pongpiachan S, Surapipith V, Hashmi M Z, Latif M, Sohail M, **Eqani SAMAS**, Charoenkalunyuta T & Promdee K. Latitudinal Transects and Quantitative Ecological Risk Assessments of Polycyclic Aromatic Hydrocarbons in Terrestrial Soils of Pakistan and King George Island, Antarctica, Polycyclic Aromatic Compounds, 2020,25:104327
12. Ullah R, R Asghar, M Baqar, A Mahmood, A Alamdar, A Qadir, M Sohail, R.B. Sch€afer. **Eqani SAMAS**\* Assessment of polychlorinated biphenyls (PCBs) in the Himalayan Riverine Network of Azad Jammu and Kashmir. [Chemosphere](https://www.sciencedirect.com/science/journal/00456535) , 2020 [240](https://www.sciencedirect.com/science/journal/00456535/240/supp/C), 124762
13. Ullah R, Asghar R, Baqar M, Mahmood A, Ali SN, Sohail M, Schäfer R.B., **Eqani SAMAS**\*. Assessment of organochlorine pesticides in the Himalayan riverine ecosystems from Pakistan using passive sampling techniques. Environmental Science and Pollution Research, 2019, 26:6023–6037
14. Ali, S.H.B., Shafqat, M.N., **Eqani, S.A.M.A.S**. Trends of climate change in the upper Indus basin region, Pakistan: implications for cryosphere.  Environmental Monitoring Assessment, 2019, 191, 51
15. Pongpiachana S, DeelamanW,C Choochuay, N Iadtem,V Surapipith, MZ Hashmi, M Latif, MSohail, **Eqani SAMAS**, Charoenkalunyuta T, Promdee K. Data relating to spatial distribution of polycyclicaromatic hydrocarbons in terrestrial soils of Pakistan and King George Island, Antarctica. Data in brief, 2019**,** 25,104327.
16. Podgorski J, **Eqani SAMAS**, Shen H, Ullah R, Berg M. Groundwater arsenic risk modeling in Pakistan: Large population at risk due to unconfined aquifers with elevated soil-pH" 2016. Science Advances. 2018;3: e1700935.
17. [Sohail M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sohail%20M%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [**Eqani SAMAS**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Eqani%20SAMAS%5BAuthor%5D&cauthor=true&cauthor_uid=29146075)**\***, [Podgorski J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Podgorski%20J%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [Bhowmik AK](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bhowmik%20AK%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [Mahmood A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mahmood%20A%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [Ali N](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ali%20N%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [Sabo-Attwood T](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sabo-Attwood%20T%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [Bokhari H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bokhari%20H%5BAuthor%5D&cauthor=true&cauthor_uid=29146075), [Shen H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shen%20H%5BAuthor%5D&cauthor=true&cauthor_uid=29146075). Persistent organic pollutant emission via dust deposition throughout Pakistan: Spatial patterns, regional cycling and their implication for human health risks. Science of the Total Environment, 2018, 618:829-837.
18. [**Eqani, SAMAS**](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Eqani,%20SAMAS)**\*,** [Tanveer, ZI](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Tanveer,%20ZI), [Qiaoqiao, C](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Qiaoqiao,%20C" \o "Find more records by this author)., [Cincinelli, A](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Cincinelli,%20A" \o "Find more records by this author). , [Saqib, Z](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Saqib,%20Z)., [Mulla, SI](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Mulla,%20SI)., [Ali, N](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Ali,%20N).,  [Katsoyiannis, IA](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Katsoyiannis,%20IA).,  [Shafqat, MN](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Shafqat,%20MN)., [Shen, HQ](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Shen,%20HQ&ut=31999885&pos=10&excludeEventConfig=ExcludeIfFromFullRecPage). [Occurrence of selected elements (Ti, Sr, Ba, V, Ga, Sn, Tl, and Sb) in deposited dust and human hair samples: implications for human: health in Pakistan](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=14&SID=E1TKJL3lkuSxqppiOE5&page=1&doc=1). Environmental Sciences and Pollution Research. 2018, 25 (13) 12234-12245.
19. [Amir, S](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Amir,%20S&ut=11710537&pos=1&excludeEventConfig=ExcludeIfFromFullRecPage)., [Tzatzarakis, M](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Tzatzarakis,%20M&ut=422323&pos=2&excludeEventConfig=ExcludeIfFromFullRecPage" \o "Find more records by this author)., [**Eqani S**](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Eqani,%20S&ut=29683373&pos=3&excludeEventConfig=ExcludeIfFromFullRecPage)**AMAS**, [Nosyrev, AE](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Nosyrev,%20AE&ut=6308330&pos=4&excludeEventConfig=ExcludeIfFromFullRecPage)., [Shah, STA](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Shah,%20STA&ut=440970&pos=5&excludeEventConfig=ExcludeIfFromFullRecPage), [Tsatsakis, AM](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=E1TKJL3lkuSxqppiOE5&field=AU&value=Tsatsakis,%20AM&ut=9275137&pos=6&excludeEventConfig=ExcludeIfFromFullRecPage" \o "Find more records by this author)., Association of PCBs and DDTs exposure with infertility in Pakistani population. Toxicology Letters. 2018, 28, 247-48.
20. Alamdar A, **Eqani SAMAS**, Hanif N, Ali SM, Fasola M, Bokhari H, IA Katsoyiannis Shen H. Human exposure to trace metals and arsenic via consumption of fish from river Chenab, Pakistan and associated health risks. Chemosphere 2017, [168](http://www.sciencedirect.com/science/journal/00456535/168/supp/C), 1004-1012.
21. A Rasool, T Xiao, A Farooqi, M Shafeeque, Y Liu, Kamran MA, I.A. Katsoyiannis, **Eqani SAMAS\***. Quality of tube well water intended for irrigation and human consumption with special emphasis on arsenic contamination at the area of Punjab, Pakistan. Environmental Geochemistry and Health. 2017, 39, [(4](https://link.springer.com/journal/10653/39/4/page/1)),  847–863.
22. Ali N, Shahzad K, Rashid M.I., Shen H.I.M. Ismail, **SAMAS Eqani**. Currently used organophosphate and brominated flame retardants in the environment of China and other developing countries (2000–2016). Environ Sci Pollut Res. 2017. DOI 10.1007/s11356-017-9336-3.
23. Wang H, Liu L, **Eqani SAMAS**, Shen H. [Infant Exposure to Bisphenol A Can Be Quantitatively Assessed by a Simply Improved High-Performance Liquid Chromatography–Tandem Mass-Spectrometry Method](https://www.researchgate.net/publication/318312369_Infant_Exposure_to_Bisphenol_A_Can_Be_Quantitatively_Assessed_by_a_Simply_Improved_High-Performance_Liquid_Chromatography-Tandem_Mass-Spectrometry_Method?_iepl%5BviewId%5D=0YtfdzIIO8E08Y0NgbolX8XI&_iepl%5BprofilePublicationItemVariant%5D=default&_iepl%5Bcontexts%5D%5B0%5D=prfpi&_iepl%5BtargetEntityId%5D=PB%3A318312369&_iepl%5BinteractionType%5D=publicationTitle). Analytical Sciences. 2017 (3) 777-781.
24. Alamdar A, Xi G, Huang Q, Tian M, **SAMAS Eqani**, Shen H. Arsenic activates the expression of 3β-HSD in mouse Leydig cells through repression of histone H3K9 methylation. Toxicology and Applied Pharmacology, 2017 DOI: 10.1016/j.taap.2017.04.012.
25. **Eqani SAMAS \*,** Bhowmik AK, Qamar S, Sohail, M., Shah TAS, Mulla S, Fasola M, Shen H. Mercury contamination in deposited dust and its bioaccumulation patterns throughout Pakistan. Science of the Total Environment. 569–570 (2016) 585–593.
26. **Eqani SAMAS** \*, Khalid R, N Bostan, Mohmand J, Ali N, Rehan M. I.A. Katsoyiannis, Shen HQ. Human Pb-exposure via dust from different land use settings from Pakistan. Chemosphere 155 (2016) 259-265.
27. **Eqani SAMAS** \* Kanwal A, Ali SM, Sohail M, Bhowmik AK, Ambreen A, Ali N, Fasola M, Shen H (2016). Spatial distribution of dust–bound trace metals from Pakistan and its implications for human exposure. Environmental Pollution 213 (2016) 213-222.
28. Ambreen A, **Eqani SAMAS** \*, Ali SW , Sohail M, Bhowmik AK, Subhani M, Ghaffar B, Ullah R, Cincinelli A, Huang Q, Shen H. Human Arsenic exposure via dust across different ecological zones throughout the Pakistan. Ecotoxicology and Environmental Safety, 126 (2016) 219–227.
29. Hanif N, **SAMAS Eqani\***, SM Ali, IA Katsoyiannis, N Ali, ZI Tanveer, H Bokhari. Geo-accumulation and enrichment of trace metals in the sediments and their associated risks in the River Chenab, Pakistan. Geo-Exploration. [165](http://www.sciencedirect.com/science/journal/03756742/165/supp/C), (2016), 62–70.
30. Bhowmik AV, Schafer R, Ambreen A, Katsoyiannis I, Ali SM, Ali N, Bokhari H, **SAMAS Eqani\*.** Mapping human health risks from exposure to trace metal contamination of drinking water sources in Pakistan. Science of Total Environment. 538: (2015), 306-316.
31. Huang Q, Luo L, Alamdar A, Zhang J, Liu L, Tian M, **Eqani SAMAS**, and ` Shen H Integrated proteomics and metabolomics analysis of rat testis: Mechanism of arsenic-induced male reproductive toxicity" 2016. Scientific Reports. 6, 32518; doi: 10.1038/srep32518.

Shafqat, MN, Maqbool AS, **Eqani SAMAS**, Ahmed R, Ahmed H., [Trends of Climate Change in the Lower Indus Basin Region of Pakistan: Future Implications for Agriculture](https://www.researchgate.net/publication/292314340_Trends_of_Climate_Change_in_the_Lower_Indus_Basin_Region_of_PakistanFuture_Implications_for_Agriculture?ev=prf_pub). International Journal of Climate Change Strategies and Management 2016 8(5) 718-31.1. Mohmand J, **Eqani SAMAS\*,** Fasola M, Ambreen A, Ali N, Mustafa I, Liu P, Peng S, H Shen. Human Exposures to Toxic Metals Via Contaminated Dust: Bioaccumulation trends and Risk Assessment. Chemosphere. 132, (2015),142–151.
2. Subhani M, Mustafa I, Ambreen A, Katsoyiannis IA, Ali N, Huang Q,  Peng S, Shen H, **SAMAS Eqani** \*. Arsenic levels from different land-use settings in Pakistan: bio-accumulation and estimation of potential human health risk via dust exposure. Ecotoxicology and Environmental Safety. 115, (2015), 187–194.
3. Abdullah M, Muhammad A, Malik SA, Boston N, Bokhari H, Shafaqat MN, Ambreen A, Fasola M, **Eqani SAMAS** \*. Avian feathers as a non-destructive bio-monitoring tool of Toxic Metals Signatures: A case study from severally contaminated areas of Pakistan. Chemoshpere. 119, (2015), 553–561.

Yasmeen H, Qadir A, Mumtaz M, **Eqani SAMAS**, Mahmood A, Jamil N, Nazar F, Ali H, Ahmad MS, Tanveer ZI, Zhang G. Risks Profile and health vulnerability of cotton picker’s Women by the Organochlorine pesticides (OCPs) from Southern Punjab, Pakistan. Environmental Toxicology and Chemistry. 2016, (Accepted DOI: 10.1002/etc.3633). N Ali, **Eqani SAMAS**, Ismail IMI, MW Kadi, M Rehan, G Malarvannan, A Covaci. Brominated and Organophosphate Flame Retardants in Indoor Dust of Jeddah, Kingdom of Saudi Arabia: Implications for Human Exposure. Science of the Total Environment 569–570 (2016) 269–277. Ali N, Rajeh N, Ismail IMI, Wang W, **SAMAS Eqani**, K Kannan. Organohalogenated contaminants in type 2 diabetic serum from Jeddah, Saudi Arabia. Environmental Pollution, [213](http://www.sciencedirect.com/science/journal/02697491/213/supp/C), (2016), 206–212.1. Shabbir M, Aleem M, **SAMAS Eqani**, Javed S, Bokhari H. Spatial analysis and identification of high risk plague regions in Pakistan based on rodent vector distribution and climate change. Epidemiology and Infection 143 (12), (2016), 2619-2623.
2. [Mulla](https://www.researchgate.net/researcher/37857601_Dr_Sikandar_I_Mulla) SI,   [Bangeppagari](https://www.researchgate.net/researcher/2062767420_Manjunatha_Bangeppagari) M,   [Mahadevan](https://www.researchgate.net/researcher/2100233394_Gurumurthy_D_Mahadevan) D, **Eqani SAMAS**,  [Sajjan](https://www.researchgate.net/researcher/2083601525_Dayanand_B_Sajjan) DB, [Tallur](https://www.researchgate.net/researcher/32032418_Preeti_N_Tallur) PN, [Veena B. Megadi](https://www.researchgate.net/researcher/32989605_Veena_B_Megadi) VB,  [Ninnekar](https://www.researchgate.net/researcher/37948096_Harichandra_Z_Ninnekar) HZ, [Biodegradation of 3-chlorobenzoate and 3-hydroxybenzoate by polyurethane foam immobilized cells of Bacillus sp. OS13](https://www.researchgate.net/publication/295478852_Biodegradation_of_3-chlorobenzoate_and_3-hydroxybenzoate_by_polyurethane_foam_immobilized_cells_of_Bacillus_sp_OS13?ev=prf_pub). Journal of Environmental Chemical Engineering. 4 (2), (2016), 1423-1431.
3. Mehmood A., Mahmood A., **Eqani SAMAS**, Li J., Zhang G. Dietary exposure of emerging persistent organic pollutants and toxicity to human health through consumption of cereal crops from Pakistan. Human and Ecological Risk Assessment: An International Journal, (2016). DOI; 10.1080/10807039.2015.1113379.
4. Mahmood, A., Malik, R.N., **Eqani SAMAS**, Li, J., Zhang, G. A review on emerging pollutants; current scenario from Pakistan. Human and Ecological Risk Assessment: An International Journal. (2016). DOI:10.1080/10807039.2015.1133241.
5. Kamran MA, **SAMAS Eqani**, Bokhari H, Katsoyiannis A, Chuhdhary HJ (2016). Effect of plant growth promoting rhizobacteria (PGPRs) on Eruca sativa growth and nickel uptake. Ecotoxicology and Environmental Safety [Ecotoxicol Environ Saf.](http://www.ncbi.nlm.nih.gov/pubmed/26773835) ;126: (2016) 256-63.
6. Hussain I, Kamal A, Iqbal M, **Eqani SAMAS**, Bong CW, Taqi MM, Reichenauer TG, Zhang G, Malik RN. The relative abundance and seasonal distribution correspond with the sources of polycyclic aromatic hydrocarbons (PAHs) in the surface sediments of Chenab River, Pakistan. Environ Monit Assess (2016), 188: 378.
7. Edalli VA, Mulla SI, **Eqani SAMAS**, Mahadevan GD, Sharma R, Shouche Y, Kamanavalli CM. Evaluation of p-cresol degradation with polyphenol oxidase (PPO) immobilized in various matrices. 3-Biotech  2016, DOI: 10.1007/s13205-016-0547-y.

Mulla SI, Sun Q, Hu A, Wang Y, Ashfaq M, **Eqani SAMAS**, Yu CP. Evaluation of sulfadiazine degradation in three newly isolated pure bacterial cultures. PLoS ONE 2016, 11(10):e0165013.  Ali N, Ismail IMI, Khoder M, Shamy M, Alghamdi M, Max Costa d, L N Ali, W Wang, **Eqani SAMAS**. Polycyclic aromatic hydrocarbons (PAHs) in indoor dust samples from Cities of Jeddah and Kuwait: Levels, sources and non-dietary human exposure. Science of the Total Environment (2016) S0048-9697(16)32064-2.1. Bostan N, Sundus J, Amen N, **Eqani SAMAS**, Tahir F, Bokhari H. Dengue fever virus in Pakistan: effects of seasonal pattern and temperature change on distribution of vector and virus. Reviews of Medical Virology 2016; 1–17.
2. **Eqani SAMAS**\*, Cincinelli A, Mahmood A, Malik RN, Zhang G,. Occurrence and bioaccumulation trends of DL-PCBs along the Chenab river, Pakistan. Environmental Pollution. 206: (2015), 688-695.
3. Ali N, LN Ali, Ismail M.I., Govindan M, **Eqani SAMAS**‑\*, Kadi MW, Covaci A. Organohalogenated Contaminants in Sediments and Bivalves from the Northern Arabian Gulf. Ecotoxicology and Environmental Safety. 122 (2015),436-39.
4. [Ali](https://www.researchgate.net/researcher/2081170823_Attarad_Ali) A ,  [Phull AR](https://www.researchgate.net/researcher/2081940927_Abdul_Rehman_Phullb) , [M Zia](https://www.researchgate.net/researcher/2081959429_Muhammad_Ziac), **Eqani SAMAS**, Malik RN[.](https://www.researchgate.net/researcher/2081962826_Ihsan_ul-Haqd) [Phytotoxicity of River Chenab sediments: In vitro morphological and biochemical response of Brassica napus L.](https://www.researchgate.net/publication/282359178_Phytotoxicity_of_River_Chenab_sediments_In_vitro_morphological_and_biochemical_response_of_Brassica_napus_L?ev=prf_pub) Environmental nanotechnology, Mointoring & Managment. 4; (2015), 74-84.
5. Peng S , Liu L , Zhang X, Heinrich J, Zhang J, Schramm K, Huang Q, Tian M ,  **Eqani SAMAS**, Shen H . A nested case-control study indicating heavy metal residues in meconium associate with maternal gestational diabetes mellitus risk. Environmental Health. 28, 2015, 14(1), 19.
6. Kamran MA, **Eqani SAMAS**, JH Syed, HJ Chuhdhary. Effect of plant growth promoting rhizobacteria (PGPRs) on Eruca sativa growth and Cadmium uptake. Environmental Pollution and Research. 22,[Issue 12,](http://link.springer.com/journal/11356/22/12/page/1)  (2015), 9275-9283.
7. Zehra A, **Eqani SAMAS**, A Katsoyiannis, JK Schuster, C Moeckel, KC Jones, RN Malik. Environmental Surveillance of Organo-Halogenated Contaminants (OHCs) from surface soils of Flood-hit area of Indo-gangetic plains. Science of Total Environment. 15, ([2015](http://www.sciencedirect.com/science/journal/00489697/506/supp/C)), 344–352.
8. Zafar A, **Eqani SAMAS** \*, N Boston, A Cincinelli, A Hussain, STA Shah, F Tahir, A Ambreen, S Peng, H Shen. Toxic metals signature in the human seminal plasma of Pakistani population and their potential role in male infertility. Environmental Geochemistry and Health. 37, (2015), 515–527.
9. Liu L, She J, Zhang X, Zhang J, Tian M, Huang Q, **Eqani SAMAS**, Shen H. On-line background cleanup using high performance liquid chromatography tandem mass spectrometry (HPLC-MS-MS) for analysis of perfluorinated compounds in human blood. Journal of Separation Sciences. 38, (2015), 247–253.
10. Siddiqui F, Champion O, Akram M, Studholme D, **Eqani SAMAS**, Wren B, Titball R, Bokhari H. Molecular Detection Identified a Type Six Secretion System in Campylobacter jejuni from various environmental sources but not from human cases. Journal of Applied Microbiology.  118, (2015), 1191–1198.
11. Said F, **Eqani SAMAS**, Javed S, Bokhari H. Bordetella parapertussis outbreak in Bisham, Pakistan in 2009-2010: Fall out of the 9/11 syndrome. Epidemiology and Infection. 143 / Issue 12, (2015), 2619-2623.
12. Ali N, Mehdi T, Malik RN, **Eqani SAMAS**, Ismail IMI, Kamal A, Neels H, Covaci A. Legacy and emerging Organohalogenated contaminants in matched serum and floor dust samples of various work places. Dioxin 2014. Organohalogen Compound 76, 653-656.
13. Ali N, Ismail IMI, **Eqani SAMAS**, Kadi MW., ACovaci. Environmental exposure of emerging brominated flame retardants (BFRs) in developing countries: their significance for human exposure. Dioxin 2014. Organohalogen Compound 76, 788-791.
14. Ali N, IMI Ismail, MW Kadi,  **Eqani SAMAS**, Govindan Malarvannan, Adrian Covaci. Levels of organohalogenated flame retardants in floor and air conditioner filter dust from Jeddah, Kingdom of Saudi Arabia. Dioxin 2014.Organohalogen Compound 76, 657-660.
15. **Eqani  SAMAS**, N Ali, RN Malik, A. Katsoyiannis, G. Zhang, H Bokhari, N Hanif , M Sohail, A Ambreen, M Ali, A. Mohammad. Organochlorine residue in the riverine ecosystem of Pakistan: distribution and risk assessment. Dioxin 2014. Organohalogen Compound. 76, 1082-1084.
16. Ambreen A, Syed JH, Mohammad A, Ahad K, Shabir Z, Bokhari H, Rasheed A, Ahmad H, **Eqani SAMAS** \*. Pesticides contamination in the Selected Exportable Food Commodities of Pakistan: A review on the Consumer’s Health Risk and Recommendations for Future Study. Environment Sciences and Pollution Research. 21, (2014),  13367-13393.
17. Ali N, T Mehdi, , RN Malik, **Eqani SAMAS**, A Kamal, AC Dirtu, H Neels, A Covaci. Levels and proﬁle of several classes of organic contaminants in matched indoor dust and serum samples from occupational settings of Pakistan. Environmental Pollution. 193, (2014), 269-276.
18. **Eqani SAMAS**, RN Malik, G Zhang, A Cincinelli, A Rasheed, A Qadir, H Bokhari, A Mohammad, KC Jones and A Katsoyiannis. Uptake of organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) by River water fish. The case of River Chenab. Science of Total Environment. 450-451, (2013), 83–91.
19. Khan M, **Eqani SAMAS** \*, A Katsoyiannis, SA Malik, M Abdullaha, A Hussain, A Rashid, K Ahad, M Fasola, H Bokhari, A Mohammad. Cattle egrets as a biosentinels of persistent organic pollutants exposure. Environmental Geochemistry and Health.  36,  (2014), 375-384.
20. Idrees M, **Eqani SAMAS**, Bokhari H. Sol-Gel immobilization of methyl parathion degrading bacteria isolated from agricultural areas of Pakistan. Chemistry and Ecology. 29,  (2013), 733-744(12).
21. Ali N, Malik RN, Mehdi T, **Eqani SAMAS**, Javeed A, Neels H, Covaci A. Organohalogenated Contaminants (OHCs) in the serum and hair of household cats and dogs: Biosentinels of human exposure to indoor pollution. Science of Total Environment. 449, (2013), 29-36.
22. Ali N, Ali LN, **Eqani SAMAS**, Malik RN, Neels H, Covaci A. Profiling of organohalogenated contaminants in the serum of mothers and their children from pakistan with different residential settings. Organohalogen Compounds. 75, (2013), 265-268.
23. Ali N, **Eqani SAMAS**, Malik RN, Neels H, Covaci A. Organohalogenated Contaminants (OHCs) in Human Serum of Mothers and Children from Pakistan with Urban and Rural Residential Settings. Science of Total Environment. 449, (2013), 29–36.
24. **Eqani SAMAS**, Malik RN, Ambreen A, Faheem H. Status of Organochlorine contaminants in the different environmental compartments of Pakistan: A Review on Occurrence and levels. Bulletin Environmental Contamination and Toxicology. 88, (2012), 03-310.
25. **Eqani SAMAS**, Malik RN, Katsoyiannis A, Zhang G, Chakraborty P, Mohammad A and Jones KC. Distribution and Risk Assessment of Organochlorine Contaminants in Surface Water from River Chenab, Pakistan. Environmental Sciences: Processes & Impacts. 14, (2012), 1645-1654.
26. **Eqani SAMAS**, Malik RN, Zhang G, Mohammad A, Chakraborty P. Polychlorinated Biphenyls (PCBs) in the Sediments of the River Chenab, Pakistan: Current levels and Their Toxicological Concerns. Chemistry and Ecology. 28, (2012), 327–339.
27. Farooq S, **Eqani SAMAS**, Malik RN, Katsoyiannis A, Zhang G, Zhang Y, Li J, Xiang L, Jones KC, Shinwari ZK. Occurrence, finger printing and ecological risk assessment of polycyclic aromatic hydrocarbons (PAHs) in the Chenab River, Pakistan. Environmental Sciences: Processes & Impacts. 13, (2011),3207-3215.
28. Malik RN, Rauf S, Mohammad A, **Eqani SAMAS**, Ahad K. Organochlorine residual concentrations in cattle egret from the Punjab Province, Pakistan. Environmental Monitoring and Assessment. 173: (2011), 325-341.
29. **Eqani SAMAS**, Malik RN, Mohammad A. The level and distribution of selected organochlorine pesticides in the sediments from River Chenab, Pakistan. Environmental Geochemistry and Health. 33: (2011), 33-47.

**Conference Papers and Poster Presentations:**1. **SAMAS Eqani**\*, RN Malik, G Zhang, H Bokhari, A Katsoyiannis, KC Jones, A Mohammad. Organochlorine residues in the riverine ecosystem of Paksitan. WWF (2012).
2. N Ali, **SAMAS Eqani**, T Mehdi, AC Dirtu, H Neels, A Covaci. Human Exposure to Flame Retardants in Different Occupational Settings from Pakistan. SETAC World, Berlin 2012.
3. N Ali, LN Ali, **SAMAS Eqani**, RN Malik, H Neels, A Covaci. Profiling of organohalogenated contaminants in the serum of mothers and their children from pakistan with different residential settings. Dioxin, 2013.
4. N Ali, **SAMAS Eqani**, LN Ali, H Neels, A Covaci. Fingerprinting of Organohalogenated Contaminants (OHCs) in Different Occupational Settings of Pakistan. KCC, 2014.
5. **SAMAS Eqani**, RN Malik, N Ali, A Katsoyiannis, G Zhang, H Bokhari, N Hanif, M Sohail, A Ambreen, M Ali, A Mohammad. Organochlorine Residues in the Riverine Ecosystem of Pakistan: Distribution and Risk Assessment. Dioxin 2015, Madrid, Spain.
6. N Ali, M.I. Ismail, **SAMAS Eqani\*,** Mohammad W. Kadi, Adrian Covaci. Environmental exposure of emerging Brominated Flame Retardants (BFRs) in developing countries: their significance for human exposure. Dioxin 2015, Madrid, Spain.
7. N Ali\*, M.I. Ismail, MW Kadi, **SAMAS Eqani**, M Govindan, A Covaci. Levels of Organ halogenated flame retardants in floor and air conditioner filter dust from Jeddah, Kingdom of Saudi Arabia. Dioxin 2015, Madrid, Spain.
8. N Ali, T Mehdi, RN Malik, **SAMAS Eqani**, IMI Ismail, H Neels, A Covaci. Legacy and Emerging Organ halogenated Contaminants in the matched serum and floor dust samples of various work places. Dioxin 2015, Madrid, Spain.
9. A.K. Bhowmik, A Ambreen, I Katsoyiannis, H Shen, N Ali, SM Ali, H Bokhari, R.B. Schäfer, **SAMAS Eqani**."Mapping human risk from contamination of drinking water sources in developing countries", reference number: O2.24, abstract sequel: SPAT2015\_0024. Spatial Statistics: Emerging Patterns, Avignon, France, 2015.
10. N. Ali, M. Khoder, L.N. Ali, A. Mansour , M. Shamy , M. Costa, **SAMAS Eqani**, I.M.I. Ismail. Household dust a source of human exposure to Polycyclic aromatic hydrocarbons (PAHs) in Saudi Arabia. Dioxin, 2016, Firenze, Italy.
11. **SAMAS Eqani**\*, M. Sohail, N. Ali, H. Shen. Particulate DDTs emission throughout Pakistan: Fingerprinting of recent inputs, regional cycling and their implication for human health risks. Dioxin, 2016, Firenze, Italy.
12. A. Alamdar, **SAMAS Eqani**, H. Shen Exposure risks and its implications for human health due to POPs emission from the pesticides burial grounds; a case study from the urban area of Pakistan. Dioxin, 2016, Firenze, Italy.
13. N. Ali, L.N. Ali, **SAMAS Eqani**, E. Nazar, K. Shahzad, J.M.A. Basahi, I.M.I. Ismail Occurrence of current used organophosphate flame retardants in the environment of developing countries: a short review. Dioxin, 2016, Firenze, Italy.
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