

Prof. Dr. Sammer Yousuf
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BRIEF CITATION

Dr. Sammer Yousuf is a Professor of Organic Chemistry at the H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi. She is among the most promising young female scientists of Pakistan, recognized for her original contributions in the field of structural and bioorganic chemistry. She is the author of over 200 research papers in top international journals, and five chapters of books, with total citations exceeding 2700. This is by far the largest number of quality publications among female scientists of her age group. She has solved structures of many novel and interesting natural products by using single-crystal X-ray diffraction studies and demonstrated her in-depth understanding of the X-ray technique, as well as organic chemistry. She is also the pioneer of crystal engineering in Pakistan, where structural, physio-chemical, and biological properties of co-crystals are extensively studied. Her discovery of anti-leishmanial constituents from a local medicinal plant *Physlalis minima* is an excellent example of basic to translational research. This discovery has been patented in USA and selected for clinical trials under a Sindh Government funded project.

One of her research study in the emerging field of crystallization has appeared on the cover page of the international science journal “*Acta Crystallographica Sec. C Structural Chemistry*” (Crystal structure and electrostatic properties of prednisolone acetate studied using a transferred multipolar atom model”, *Acta Crystallogr C Struct. Chem.*, **73**, 430-436 (2017).

Based on her contributions in the field of structural and medicinal chemistry, she has received prestigious TWAS Regional Prize for Young Scientist from Third World Academy of Sciences (TWAS) in 2011, and has also been elected as TWAS Young affiliate in 2013.

Very recently she is elected as the member of the Editorial Board of an international peer reviewed journal entitled, “*The Open Bioactive Compound Journal*” and as an Editor of new book series entitled, “Science of Spices and Herbs “Latest Laboratory, Pre-clinical, and Clinical Studies on Most Important Spices and Herbs of the World”.