

**SALMAN H. SIDDIQI**  
**BD FELLOW, EMERITUS**

**Education:**

Received Bachelor and Masters Degrees in microbiology from the University of Karachi, Pakistan and Ph.D. degree in medical microbiology from University of Oklahoma.

**Work Experience:**

Over 39 years experience in research and clinical mycobacteriology.

Following training in Mycobacteriology at the CDC, Atlanta, Georgia, joined the Experimental Pathology Division of the University of Maryland, Baltimore, Maryland as a research associate with Dr. Gardner Middlebrook, a well-known authority in the field of tuberculosis.

Later worked as chief of microbiology division at the University of Maryland International Center for Medical Research and Training in Lahore, Pakistan and carried out extensive research in tuberculosis under Middlebrook.

In 1972 joined the Pakistan Medical Research Council as the founding director of the National Tuberculosis Research Center at Mayo Hospital, King Edwards Medical College.

In 1978 joined Dr. Middlebrook again at the University of Maryland. Developed rapid radiometric growth detection and susceptibility test system.

Accepted a senior research scientist position at Johnston Laboratories, which later became a division of Becton Dickinson.

Held the highest research position, the BD Fellow, at Becton Dickinson.

**Achievements:**

- Responsible for the development of the first broth-based automatic BACTEC 460 TB system for growth and susceptibility testing of mycobacteria. The BACTEC 460TB system has become a gold standard in Mycobacteriology.
- Developed Antimicrobial mixture PANTA to be used in broth-based culture system.
- Developed BATEC NAP test, the first rapid M.tb differentiation test.
- Developed Middlebrook 13A medium, the first blood cultures system for detection of mycobacterial infection in immunocompromised patients.
- Actively involved in the development of non-radiometric BACTEC MGIT 960 system.
- Over 60 scientific publications in journals and more than 250 presentations in scientific meetings.
- Has given lectures workshops and seminars worldwide, especially in developing countries.
- Has served as member of the Editorial Board of J. Clinical Microbiology for more than 7 years and at present acting as a reviewer for several scientific journals.
- Served for 8 years as secretary of Bacteriology and Immunology Section of International Union Against Tuberculosis and Lung Disease (IUATLD).

- Have been actively involved as a committee member and advisor of the Clinical Laboratory Standards Institute (CLSI, formally known as NCCLS) for developing standards in clinical mycobacteriology.

**Awards:**

- Fellow, American Academy of Microbiology.
- Barnet Cohen Award for distinguished scientist, American Society for Microbiology, Maryland.
- Ely Lilly Gold Medal for lifetime achievement, Pakistan Microbiology Society.
- Gardner Middlebrook Award for significant contribution in the field of Mycobacteriology and Tuberculosis Diagnosis.