

Curriculum Vitae

Rodger Crenshaw, M.S.

Areas of Specialization:

- Fungal identification expert in Mycology and QC Microbiology
- Development, creation and implementation of master and primary seeds program (Mycology project and plague project (*Yersinia pestis*))
- Development and Implementation of in-process Quality Control steps for the production of fungal raw materials
- Creation of specifications for long term suitability of lot-to-lot reproducibility and consistency of fungal raw material
- Research in development and standardization of fungal extracts (including *Alternaria alternata*)
- Writing and updating SOPs for various departments (Mycology, IVD, Raw Materials, Microbiology)

Academic Education:

- M.S., East Tennessee State University, Johnson City, 1979 (Microbiology)
- B.S., East Tennessee State University, Johnson City, 1977 (Microbiology)
- A.S., Lees McRae College, Banner Elk, NC, 1975 (Biology)

Continuing Education:

- Preservation of Microorganisms
- Identification of Saprophytic Fungi Commonly Encountered in a Clinical Environment
- Workshop on Limulus Test Technology
- ASM meetings

Employment History:

- Greer Laboratories, Lenoir, North Carolina, USA: March 1979 – June 2013
 - ✓ Microbiology Technician
 - ✓ Microbiology Supervisor
 - ✓ Research Scientist
 - ✓ Mycology Supervisor
 - ✓ Raw Material Business Unit Manager
 - ✓ Change Control Review Board Moderator
 - ✓ Validation Supervisor
 - ✓ Mycology Quality Control Specialist
 - ✓ JDE Implementation
 - ✓ Configuration Manager/Mycology QC Specialist/Pollen ID QC Specialist

Professional Association:

1981-2013 – Member, American Society of Microbiology

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Publications

Effects of Microwave Radiation on Specific *Salmonella typhimurium* Mutants. Radiation Research. June 1979.

Portnoy J, Pacheco F, Barnes C, Upadrashta B, Crenshaw R, Esch E. Selection of Representative *Alternaria* Strains Groups on the Basis of Morphology, Enzyme Profile and Allergen Content. Journal of Allergy and Clinical Immunology 1993;91:773-82

Esch E, Hartsel C, Crenshaw R, Jacobson R. Common allergenic pollens, fungi, animals, and arthropods. Clin Rev Allergy Immunol 2001;21:261-92.

Codina R., Crenshaw R.C., Lockey R.F. Considerations about the pollen used for the production of allergen extracts. J Allergy Clin Immunol Pract 2015;3:676-82.

Codina R, Crenshaw R, Esch R. Evaluation of the purity of pollen used to manufacture allergen extracts. 73th Annual Meeting of the American Academy of Allergy Asthma and Immunology, Atlanta, GA, March 2017