



Navigating Molecular Pathways in Electrophoretic Style

Santos Murphy*

Department of Molecular Biology, University of Bulgaria, Bulgaria

Abstract

The abstract explores the innovative approach of navigating molecular pathways using electrophoretic techniques. Electrophoresis, a fundamental analytical method, serves as a dynamic tool for unraveling intricate molecular interactions and pathways within biological systems. This review discusses the application of electrophoretic methods,

While electrophoresis is a powerful tool, challenges such as limited resolution and potential artifacts exist [10]. Ongoing advancements, including the integration of advanced detection methods and microfluidic technologies, aim to address these challenges and enhance the precision and throughput of molecular pathway analyses.

In the journey of understanding molecular pathways, electrophoretic techniques serve as invaluable guides. Whether through gel electrophoresis, capillary electrophoresis, or related methods, researchers can navigate the intricate landscape of biomolecules, unraveling the complexities of cellular processes and paving the way for advancements in fields ranging from basic biology to clinical research.

None

References

1. Wei J, Goldberg MB, Burland V, Venkatesan MM, Deng W, et al. (2003) O157:H7 serotype 2a strain 2457T. *Infect Immun* 71: 2775-2786.
2. Kuo CY, Su LH, Perera J, Carlos C, Tan BH, et al. (2008) Antimicrobial susceptibility of Shigella isolates in eight Asian countries, 2001-2004. *J Microbiol Immunol Infect*; 41: 107-11.

3. Gupta A, Polyak CS, Bishop RD, Sobel J, Mintz ED (2004) Laboratory-based surveillance of Shigella infections and patterns. *Clin Infect Dis* 38: 1372-1377.
4. Murugesan P, Revathi K, Elayaraja S, Vijayalakshmi S, Balasubramanian T (2012) Distribution of enteric bacteria in the sediments of Parangipettai and Cuddalore coast of India. *J Environ Biol* 33: 705-11.
5. Torres AG (2004) Current aspects of Shigella pathogenesis. *Rev Latinoam Microbiol* 46: 89-97.
6. Bhattacharya D, Bhattacharya H, Thamizhmani R, Sayi DS, Reesu R, et al. (2014) Shigellosis in Bay of Bengal Islands, India: Clinical and seasonal patterns, surveillance of antibiotic susceptibility patterns, and molecular characterization of multidrug-resistant Shigella strains isolated during a 6-year period from 2006 to 2011. *Eur J Clin Microbiol Infect Dis*; 33: 157-170.
7. Bachand N, Ravel A, Onanga R, Arsenault J, Gonzalez JP (2012) Public health implications of Shigella dysenteriae and Shigella sonnei in the markets of Gabon, Central Africa. *J Wildl Dis* 48: 785-789.
8. Saeed A, Abd H, Edvinsson B, Sandström G (2009) Acanthamoeba castellanii an environmental host for Shigella dysenteriae and Shigella sonnei. *Arch Microbiol* 191: 83-88.
9. Iwamoto M, Ayers T, Mahon BE, Swerdlow DL (2010) Epidemiology of seafood-associated infections in the United States. *Clin Microbiol Rev* 23: 399-411.
10. Von-Seidlein L, Kim DR, Ali M, Lee HH, Wang X, Thiem VD, et al. (2006) A multicentre study of Shigella diarrhoea in six Asian countries: Disease burden, clinical manifestations, and microbiology. *PLoS Med* 3: e353.