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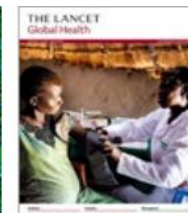
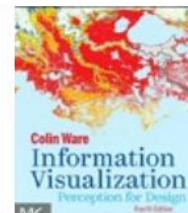
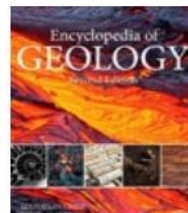
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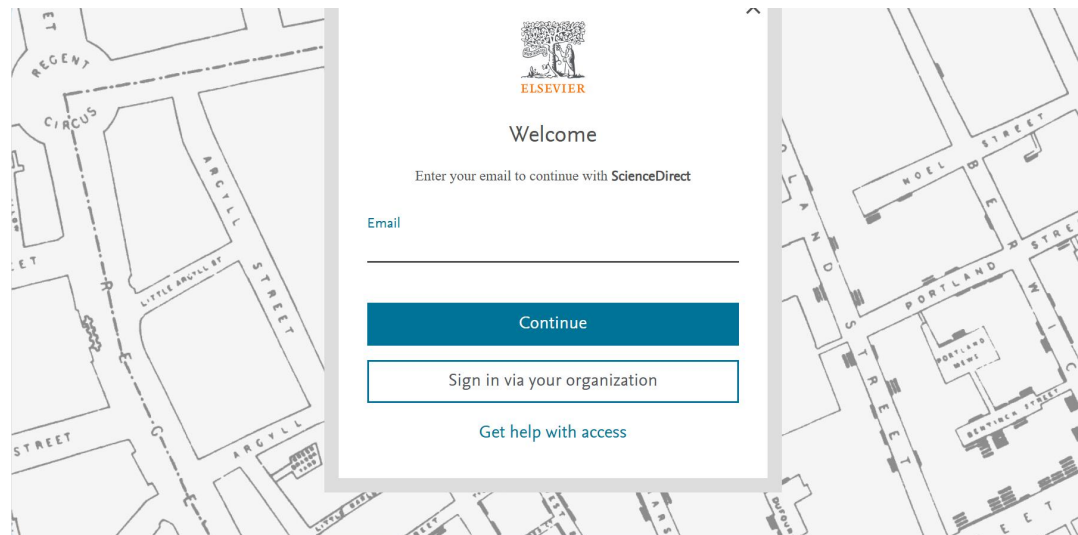
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Infection, Genetics and Evolution

Volume 114, October 2023, 105491



Genotypic diversity and recombination of norovirus GI.6[P11] associated acute gastroenteritis outbreaks in Beijing, China, from 2016 to 2019

Jiamei Fu^{a, b}, Lingyu Shen^b, Weihong Li^b, Hanqiu Yan^b, Baiwei Liu^b, Yu Wang^b, Yi Tian^b, Lei Jia^b, Quanyi Wang^b, Daitao Zhang^{b, 1}, Zhiyong Gao^{a, b, 1}

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machine learning applied to microbiology.

- Faster alternative to Salmonella detection among other bacteria in traditional growth media.
- Gas sensor applied to microbiological detection of foodborne bacteria.

Abstract

Salmonella is one of the most important foodborne pathogens and its analysis in raw and processed products is mandatory in the food industry. Although microbiological analysis is the standard practice for *Salmonella* determination, these assays are commonly laborious and time-consuming, thus, alternative techniques based on easy operation, few manipulation steps, low cost, and reduced time are desirable. In this paper, we demonstrate the use of an e-nose based on ionogel composites (ionic liquid + gelatine + Fe₃O₄ particles) as a complementary tool for the conventional microbiological detection of *Salmonella*. We used the proposed methodology for differentiating *Salmonella* from *Escherichia coli*, *Pseudomonas fluorescens*, *Pseudomonas aeruginosa*, and **Staphylococcus aureus** in nonselective medium: pre-enrichment in brain heart infusion (BHI) (incubation at 35°C, 24h) and enrichment in tryptone soy agar (TSA) (incubation at 35°C, 24h), whereas *Salmonella* differentiation from *E. coli* and *P. fluorescens* was also evaluated in selective media, bismuth sulfite agar (BSA), xylose lysine deoxycholate agar (XLD), and brilliant green agar (BGA) (incubation at 35°C, 24h). The obtained data were compared by principal component analysis (PCA) and different machine learning algorithms:

Staphylococcus Aureus

Staphylococcus aureus (S. aureus), an aggressive pathogen that can cause life-threatening infections in humans, is a gram-positive bacterium that is surrounded by cell surface glycopolymers, including peptidoglycan (PG), wall teichoic acid (WTA), lipoteichoic acid (LTA), and capsular polysaccharide (CP) [1].
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Staphylococcus aureus

Y.L. Leung, in *Encyclopedia of Toxicology* (Third Edition), 2014

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 **Journal of Microbiological Methods**
Volume 212, September 2023, 106805

Combination of the electronic nose with microbiology as a tool for rapid detection of *Salmonella*

Wellington Belarmino Gonçalves^a, Wanderson Sirley Reis Teixeira^b, Aryele Nunes da Cruz Encide Sampaio^b, Otávio Augusto Martins^b, Evelyn Perez Cervantes^c, Mateus de Souza Ribeiro Mioni^d, Jonas Gruber^a, Juliano Gonçalves Pereira^b

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