

## ANUNT

Asociatia “**Centrul de Biotehnologii Microbiene**”-BIOTEHGEN, anunta scoaterea la concurs a postului de **Cercetator stiintific gr I (CS I)**

Concursul consta in **interviu on line** (se va comunica linkul de Zoom), din **Bibliografia anexata**.

Data desfasurarii concursului: **31 Octombrie 2023**

Conditii de participare: Candidatul trebuie sa fie specialist in: OMICA (genómica, transcriptimica, metagenómica), Biologie moleculara, Microbiologie cu expertiza in bacterii pentru utilizare in obtinere de noi compusi antimicrobieni

Dosarul continand: CV, Lista de lucrari stiintifice, acte de studii superioare (doctorat), alte diplome doveditoare pentru specializarile mentionate in CV, autobiografia, portofoliul de lucrari stiintifice (10 lucrari relevante).

Candidatul trebuie sa indeplineasca standardele **minime naționale conform OMENCS nr. 6129/20.12.2016 ; M.of. 123 bis/15.02.2017 pentru Cercetator stiintific I.**

**Dosarul de participare la concurs** se va transmite pe adresa de mail: stefana.jurcoane@biotehgen.eu pina la data de : 10 Octombrie 2023.

### Bibliografia:

1. Billington C, Kingsbury JM, Rivas L. Metagenomics Approaches for Improving Food Safety: A Review. *J Food Prot.* 2022 Mar 1;85(3):448-464. doi: 10.4315/JFP-21-301.
2. Li, Y.; Cao, W.; Liang, S.; Yamasaki, S.; Chen X.; Shi, L.; Ye, L. Metagenomic characterization of bacterial community and antibiotic resistance genes in representative ready-to-eat food in southern China. *Sci. Rep.* **2020**, *10*, 15175, <https://doi.org/10.1038/s41598-020-72620-4>.
3. Rahman, M.; Alam, M.-U.; Luies, S.K.; Kamal, A.; Ferdous, S.; Lin, A.; Sharior, F.; Khan, R.; Rahman, Z.; Parvez, S.M.; Amin, N.; Hasan, R.; Tadesse, B.T.; Taneja, N.; Islam, M.A.; Ercumen, A. Contamination of Fresh Produce with Antibiotic-Resistant Bacteria and Associated Risks to Human Health: A Scoping Review. *Int. J. Environ. Res. Public Health.* **2022**, *19*, 360. <https://doi.org/10.3390/ijerph19010360>.
4. Cao, Y.; Fanning, S.; Proos, S.; Jordan, K.; Srikumar, S. A review on the applications of next generation sequencing technologies as applied to food-related microbiome studies. *Front. Microbiol.* **2017**, *8*, 1829, doi: 10.3389/fmicb.2017.01829.
5. Saminathan, T.; García, M.; Ghimire, B.; Lopez, C.; Bodunrin, A.; Nimmakayala, P.; Abburi, V.L.; Levi, A.; Balagurusamy, N.; Reddy, U.K. Metagenomic and Metatranscriptomic Analyses of Diverse Watermelon Cultivars Reveal the Role of Fruit Associated Microbiome in Carbohydrate Metabolism and Ripening of Mature Fruits. *Front. Plant Sci.* **2018**, *9*, 4. doi: 10.3389/fpls.2018.00004.
6. Bridier A. Exploring Foodborne Pathogen Ecology and Antimicrobial Resistance in the Light of Shotgun Metagenomics. *Methods Mol Biol.* 2019;1918:229-245. doi: 10.1007/978-1-4939-9000-9\_19.
7. Walsh AM, Crispie F, Daari K, O'Sullivan O, Martin JC, Arthur CT, Claesson MJ, Scott KP, Cotter PD. Strain-Level Metagenomic Analysis of the Fermented Dairy Beverage Nunu Highlights Potential Food Safety Risks. *Appl Environ Microbiol.* 2017 Aug 1;83(16):e01144-17. doi: 10.1128/AEM.01144-17.

8. Gu W, Miller S, Chiu CY. Clinical Metagenomic Next-Generation Sequencing for Pathogen Detection. *Annu Rev Pathol.* 2019 Jan 24;14:319-338. doi: 10.1146/annurev-pathmechdis-012418-012751.
9. Leonard SR, Mammel MK, Lacher DW, Elkins CA. Application of metagenomic sequencing to food safety: detection of Shiga Toxin-producing *Escherichia coli* on fresh bagged spinach. *Appl Environ Microbiol.* 2015 Dec;81(23):8183-91. doi: 10.1128/AEM.02601-15.
10. Huang L, Hong B, Yang W, Wang L, Yu R. Snipe: highly sensitive pathogen detection from metagenomic sequencing data. *Brief Bioinform.* 2021 Sep 2;22(5):bbab064. doi: 10.1093/bib/bbab064.