

List of scientific publications of Chief Assistant Professor Dr. Anna Tomova, submitted for participation in the competition

B4. Habilitation thesis - scientific publications in journals that are referenced and indexed in world-famous databases of scientific information (Scopus)

- B4-1.** Uzunova K., A. Vasileva, M. Kambourova, V. Ivanova, D. Spasova, R. Mandeva, **A. Derekova**, A. Tonkova (2001). Production and properties of a bacterial thermostable exo-inulinase. *Z. Naturforsch.* 56c:1022-1028. DOI 10.1515/znc-2001-11-1220, **Q2-20 т., SJR 0.328; IF 0,783 (2003).**
- B4-2.** Atanassova, M., **A. Derekova**, R. Mandeva, C. Sjöholm, and M. Kambourova (2008). *Anoxybacillus bogrovensis* sp. nov., a novel thermophilic bacterium isolated from a hot spring in Dolni Bogrov, Bulgaria. *Int J Syst Evol Microbiol* 58: 2359-2362. DOI 10.1099/ijls.0.65745-0, **Q2 – 20 т. SJR 1.068; IF 1,463 (2008).**
- B4-3.** **Derekova, A.**, M. Atanassova, P. Christova, B. Tchorbanov, A. Shosheva, R. Mandeva, P. Rodriguez-Alonso, J. I. Garabal, and M. Kambourova (2010). Physicochemical characteristics of a thermostable gellan lyase from *Geobacillus stearothermophilus* 98. *Z. Naturforsch.* 65c. (3-4): 231-238. DOI 10.1515/znc-2010-3-411, **Q2 -20 т. SJR (2010) 0.397; IF 0,800 (2009).**
- B4-4.** Ivanova, I., Atanassov, I., Lyutskanova, D., Stoilova-Disheva, M., Dimitrova, D., Tomova, I., **Derekova, A.**, Radeva, G., Buchvarova, V., Kambourova, M. (2011). High Archaea diversity in Varvara hot spring, Bulgaria. *J. Basic Microbiol.* 51:163-172. DOI 10.1002/jobm.201000160, **Q2 – 20 т. SJR 0.528; IF 1.395 (2011).**
- B4-5.** Rezanka, T., Kambourova, M., **Derekova, A.**, Kolouchová, I., Sigler, K. (2012). LC-ESI-MS/MS identification of polar lipids of two thermophilic *Anoxybacillus* bacteria containing a unique lipid pattern. *Lipids*, 47(7):729-39, DOI 10.1007/s11745-012-3675-0, **Q2-20 т. SJR 0.898; IF 2,35 (2012).**

Г7. Publications outside the habilitation thesis - in journals that are referenced and indexed in world-famous databases of scientific information (Scopus)

- Г7-1.** Kambourova M., N. Kirilova, R. Mandeva, **A. Derekova** (2003). Purification and properties of thermostable lipase from a thermophilic *Bacillus stearothermophilus* MC 7. *J. Mol. Catal. B*, 22:307, DOI 10.1016/S1381-1177(03)00045-6, **Q3 – 15 т. SJR 0.595; IF 1, 408 (2003).**
- Г7-2.** Atanassov, I, Dimitrova, D., Stefanova, K. **Tomova, A.**, Tomova, I., Lyutskanova, D., Stoilova-Disheva, M., Radeva, G., Danova, I., Kambourova, M. (2010). Molecular characterization of the archaeal diversity in Vlasa hot spring, Bulgaria, by using 16s RNA and glycoside hydrolase family 4 genes. *Biotechnol. & Biotechnol. Eq.* 24 (3): 1979–1985. DOI 10.2478/V10133-010-0065-8, **Q3 – 15 т., SJR 0.189; IF 0.503 (2010).**

- Г7-3. Radchenkova, N, **Tomova, A.**, Kambourova M. (2011). Biosynthesis of an exopolysaccharide, produced by *Brevibacillus thermoruber* 438. *Biotechnol and biotechnol Eq.*, 25 (Suppl. 4): 77-79. <https://doi.org/10.5504/BBEQ.2011.0115>, Q3 – 15 т., SJR 0.205; IF 0.503 (2011).
- Г7-4. Tomova, I, Lazarkevich, I., **Tomova A.**, Kambourova M., Vasileva-Tonkova, E. (2013). Diversity and biosynthetic potential of culturable aerobic heterotrophic bacteria isolated from Magura Cave, Bulgaria. *International Journal of Speleology*, 42: 65-76. DOI: 10.5038/1827-806X.42.1.8, Q2 – 20 т., SJR 0.635; IF 2.36 (2013)
- Г7-5. **Tomova, A.**, Tomova I., Vasileva-Tonkova, E., Lazarkevich, I., Stoilova-Disheva, M., Lyutskanova D., Kambourova, M. (2013). *Myroides guanonis* sp. nov., isolated from prehistoric paintings. *International Journal of Systematic and Evolutionary Microbiology*, 63: 4266–427. DOI: 10.1099/ij.s.0.050831-0, Q2 – 20 т., SJR 0.996; IF 2.48 (2013)
- Г7-6. Petrova D., **Derekova A.**, Vlahov S (2006). Purification and properties of individual collagenases from *Streptomyces* sp. strain 3B. *Folia Microbiologica* 51 (2): 93-98. DOI: 10.1007/BF02932162, Q3 – 15 т., SJR 0.382; IF 0,963 (2006)
- Г7-7. Ivanova, V., Tomova, I., Kamburov, A., **Tomova, A.**, Vasileva-Tonkova, E. and M. Kambourova (2013). High phylogenetic diversity of bacteria in the area of prehistoric paintings in Magura cave, Bulgaria. *Journal of Cave and Karst Studies*, 75 (3): 218–228. DOI: 10.4311/2012MB0279, Q3 – 15 т., SJR 0.284; IF 0.696 (2013)
- Г7-8. Stefanova, K., Tomova, I., **Tomova, A.**, Radchenkova, N., Atanassov, I., Kambourova, M. (2015). Archaeal and bacterial diversity in two hot springs from geothermal regions in Bulgaria as demonstrated by 16S r RNA and GH-57 genes. *International Microbiology*, 18: 217-223. DOI: 10.2436/20.1501.01.253, Q3 – 15 т., SJR 0.915; IF 1.326 (2015).
- Г7-9. Petrova, V., Kujumdzieva, A., **Tomova, A.**, Georgiev, G., Stefanova, N., Pankov, R. (2016). Superoxide dismutase and catalase participate in the regulation of quiescent state of human fibroblasts: In silico and biochemical analysis. *Comptes Rendus de L'Academie Bulgare des Sciences*, 69 (4): 467-474. ISSN 1310–1331 (Print), ISSN 2367–5535 (Online), Q3 – 15 т., SJR 0.209; IF 0.284 (2016).
- Г7-10. **Tomova, A.**, Kujumdzieva A., & Petrova, V. (2019). Carbon source influences *Saccharomyces cerevisiae* yeast cell survival strategies: quiescence or sporulation. *Biotechnology & Biotechnological equipment*, 33(1): 1464–1470. <https://doi.org/10.1080/13102818.2019.1674188>, Q3-15 т., SJR 0.376; IF 1.186 (2019).
- Г7-11. Daskalova, A., Petrova, V., Velkova, L., Kujumdzieva, A., **Tomova, A.**, Voelter W., Dolashka, P. (2021). Investigation of protein expression of *Saccharomyces cerevisiae* cells in quiescent and proliferating state before and after toxic stress. *Biotechnology & Biotechnological Equipment*, 35(1), 366-376, <https://doi.org/10.1080/13102818.2021.1879677>, Q3-15 т., SJR 0.417; IF: 1.186 (2019).

Г7-12. Daskalova, A., **Tomova, A.**, Kujumdzieva A., Velkova, L., Dolashka, P., Petrova, V. (2021). Menadione and hydrogen peroxide trigger specific alterations in RNA polymerases profiles in quiescent *Saccharomyces cerevisiae* cells. *Biotechnology & Biotechnological Equipment*, vol. 35(1), <https://doi.org/10.1080/13102818.2021.1941255>, Q3-15T. SJR 0.417; IF: 1.186 (2019).

Г 7.0 Scientific publications in non-refereed and indexed journals

Г7.0-1. Kambourova, M., Mandeva, R., **Derekova, A.** Thermostable α -glucosidase produced by *Bacillus stearothermophilus* 233. Сборник от научна конференция на Съюза на учените с международно участие, Стара Загора (2003), том III, 194-198. ISBN 954-9329-03-8, ISBN 954-9329-04-6.

Г7.0-2. Kambourova M., **Derekova, A.**, Mandeva, R., Sjöholm, C. Production, purification and properties of thermostable β -amylase from *Bacillus stearothermophilus*. Сборник от научна конференция на Съюза на учените с международно участие, Стара Загора (2003), том III, 190-193. ISBN 954-9329-03-8, ISBN 954-9329-04-6

Г7.0-3. **Anna Tomova**, Ventsislava Petrova. Role of *Saccharomyces cerevisiae* antioxidant capacity on cellular differentiation. Proceedings of Seminar of Ecology – 2019 with international participation 18th – 19th April, 2019.

Г8-1. Published chapter of a book

Г8-1. Kambourova M., **Derekova A.** (2013). Developments in Thermostable Gellan Lyase. In: Satyanarayana T., Littlechild J., Kawarabayasi Y. (eds.), *Thermophilic Microbes in Environmental and Industrial Biotechnology: Biotechnology of thermophiles* https://doi.org/10.1007/978-94-007-5899-5_27, Springer Science+Business Media Dordrecht 2013.