

**List of all scientific publications of
Chief Assistant Professor Dr. Anna Tomova**

Scientific publications in journals that are referenced and indexed in world-famous databases of scientific information (Scopus)

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, ISSN: 1865-7125, DOI:10.1515/znc-2001-11-1220, Quartile: Q2, SJR 0.328; IF 0,783 (2003).
2. 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 ISSN 1381-1177; DOI 10.1016/S1381-1177(03)00045-6, Quartile: Q3, SJR 0.595; IF 1, 408 (2003).
3. 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, ISSN 1874-9356, e-ISSN 0015-5632; Quartile: Q3, SJR 0.382, IF 0,963 (2006).
4. **Derekova, A.**, C. Sjöholm, R. Mandeva, L. Mihailova, M. Kambourova (2006). Biosynthesis of a thermostable gellan lyase by newly isolated and characterized strain of *Geobacillus stearothermophilus* 98. *Extremophiles* 10: 321-326, ISSN 1431-0651; e-ISSN 1433-4909; DOI: 10.1007/s00792-005-0503-y, Quartile: Q2, SJR 1.071; IF 1,921 (2006).
5. **Derekova A.**, C. Sjöholm, R. Mandeva, M. Kambourova (2007). *Anoxybacillus rupiensis* sp. nov., a novel thermophilic bacterium isolated from Rupi basin (Bulgaria). *Extremophiles* 11: 577-583, ISSN 1431-0651; e-ISSN 1433-4909; DOI: 10.1007/s00792-007-0071-4, Quartile: Q2, SJR 1.247; IF 2,317 (2007).
6. 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, ISSN 1466-5026 e-ISSN 1466-5034; DOI: 10.1099/ijs.0.65745-0, Quartile: Q2, SJR 1.068; IF 1,463 (2008).
7. **Derekova, A.**, R. Mandeva, M. Kambourova (2008). Phylogenetic diversity of thermophilic carbohydrate degrading bacilli from Bulgarian hot springs *World J. Microbiol. Biotechnol.* 24 (9):1697-1702, ISSN 0959-3993; e-ISSN 1573-0972, <https://doi.org/10.1007/s11274-008-9663-0>, Quartile: Q3, SJR 0.476; IF 0,945 (2008).
8. **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, ISSN 0939-5075, e-ISSN 1865-7125, DOI: 10.1515/znc-2010-3-41, Quirtil: Q2, SJR (2010) 0.397; IF 0,800 (2009).

9. 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, ISSN 1310-2818, e- ISSN 1314-3530; DOI 10.2478/V10133-010-0065-8, Quirtil: Q3, SJR 0.189; IF 0.503 (2010).
10. 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, ISSN 0233-111X, e-ISSN 1521-4028; DOI: 10.1002/jobm.201000160, Quirtil: Q2, SJR 0.528; IF 1.395 (2011).
11. 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, ISSN 0024-4201, e-ISSN 1558-9307; DOI: 10.1007/s11745-012-3675-0, Quirtil: Q2, SJR 0.898; IF 2,35 (2012).
12. 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, ISSN 1310-2818, e-ISSN 1314-3530; <https://doi.org/10.5504/BBEQ.2011.0115>, Quirtil: Q3, SJR 0.205; IF 0.503 (2011).
13. 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, ISSN 0392-6672, e-ISSN 1827-806X; DOI: 10.5038/1827-806X.42.1.8, Quirtil: Q2, SJR 0.635; IF 2.36 (2013).
14. **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, ISSN 1466-5026 e-ISSN 1466-5034; DOI: 10.1099/ijs.0.050831-0, Q2, SJR 0.996; IF 2.48 (2013).
15. 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, ISSN 1090-6924, ISSN-L 1090-6924; DOI: 10.4311/2012MB0279, Quirtil: Q3, SJR 0.284; IF 0.696 (2013).
16. 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, ISSN 1139-6709, e-ISSN 1618-1905; DOI: 10.2436/20.1501.01.253, Quirtile: Q3, SJR 0.915; IF 1.326 (2015).
17. 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), Quirtile: Q3, SJR 0.209; IF 0.284 (2016).
 18. **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, ISSN 1310-2818, e-ISSN 1314-3530; <https://doi.org/10.1080/13102818.2019.1674188>, Quirtile: Q3, SJR 0.376; IF 1.186 (2019).
 19. 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, ISSN 1310-2818, e-ISSN 1314-3530. <https://doi.org/10.1080/13102818.2021.1879677>, Quirtile: Q3, SJR 0.417; IF 1.186 (2019).
 20. 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*, 35(1): 1190-1199, ISSN 1310-2818, e-ISSN 1314-3530; <https://doi.org/10.1080/13102818.2021.1941255>, Quirtile: Q3, SJR 0.417; IF 1.186 (2019).

Publications in proceedings of scientific conferences in full text

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.
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.
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.

Published chapter of a book

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*. eBook ISBN: 978-94-007-5899-5, Hardcover ISBN 978-94-007-5898-8, Softcover ISBN 978-94-024-0043-4 <https://doi.org/10.1007/978-94-007-5899-5>, Springer Science + Business Media Dordrecht 2013.