



SoCoBio DTP Publications

Date of Publication	Journal	Title	DOI
10/12/2025	Journal of Food Protection	Mature <i>Listeria monocytogenes</i> biofilms exhibit reduced susceptibility to sanitisers - relevance to the (leafy green) fresh food supply chain	DOI: 10.1016/j.jfp.2025.100652
03/12/2025	Nature Communications	Molecular basis for multidrug efflux by an anaerobic-associated RND transporter	DOI: 10.1038/s41467-025-65565-7
01/12/2025	Physiology & Behavior	Does habitual caffeine consumption moderate the association between a high fat and sugar diet and self-reported and episodic memory impairment in humans?	DOI: 10.1016/j.physbeh.2025.115078
26/11/2025	Nucleic Acids Research	KlebPhaCol: a community-driven resource for <i>Klebsiella</i> research identified a novel phage family	DOI: 10.1093/nar/gkaf1122
25/11/2025	Organic & Biomolecular Chemistry	Dicarboxylate and dicarboxylic acid appended supramolecular self-associating amphiphiles as antimicrobial agents against high priority bacterial pathogens	DOI: 10.1039/d5ob01615k
20/11/2025	Microbiome Research Reports	Taxonomic and mechanistic insights into gut microbiota bioaccumulation of entacapone via bioorthogonal drug labelling.	DOI:10.20517/mrr.2025.73

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19/11/2025	Communications Chemistry	Structural reconstruction of individual filaments in A β 42 fibril populations assembled in vitro reveal rare species that resemble ex vivo amyloid polymorphs from human brains	DOI: 10.1038/s42004-025-01741-6
29/10/2025	Biochemical Society transactions	The impact of ribosome association on lncRNA stability: a new layer of post-transcriptional control?	DOI: 10.1042/BST20253024
28/10/2025	Journal of Molecular and Cellular Cardiology	Molecular mechanisms of altered contraction with the β -myosin R403Q mutation in porcine ventricular muscle and a human stem cell-derived cardiomyocyte model	DOI: 10.1016/j.yjmcc.2025.10.008
22/10/2025	Journal of Muscle Research and Cell Motility	Direct measurement of mavacamten and deoxyATP perturbation of the SRX/DRX ratio in porcine cardiac myofibrils using a simple, accessible and multiplexed approach.	DOI: 10.1007/s10974-025-09712-z
20/10/2025	Frontiers in Microbiology	Blastocystis across humans, animals and the environment in rural Türkiye, and relationships with the human intestinal microbiome	DOI: 10.3389/fmicb.2025.1665966
10/10/2025	The Biochemical Journal	Extracellular Vesicle-Linked Vitamin B12 Acquisition via Novel Binding Proteins in <i>Bacteroides thetaiotaomicron</i> .	DOI: 10.1042/BCJ20253340



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08/10/2025	microPublication Biology	Optimizing a <i>C. elegans</i> whole organism screen biased for chemicals that target the nematode clade specific receptor EAT-2	DOI: 10.17912/micropub.biology.001814
03/10/2025	Aquaculture International	Pacific oysters (<i>Magallana gigas</i> , Thunberg 1793) preferentially consume <i>Isochrysis galbana</i> , increasing biomass and upregulating biomineralisation gene nacrein	DOI: 10.1007/s10499-025-02161-y
04/09/2025	Chemical Society Reviews	Advances in applied supramolecular technologies 2021-2025	DOI: 10.1039/d4cs01037j
31/08/2025	Marine Environmental Research	Trawling the archives: Long-term trends in fish taxonomic and functional diversity in UK coastal community.	DOI: 10.1016/j.marenvres.2025.107508
27/08/2025	Cell Death & Differentiation	Large-scale transcriptomic analyses reveal downstream target genes of ZFY1 and ZFY2 transcription factors in male germ cells.	DOI: 10.1038/s41418-025-01606-4
20/08/2025	Environmental Microbiology	Effects of sulphate-reducing bacteria mixed-species biofilms on microbiologically influenced corrosion	DOI: 10.1111/1462-2920.70116



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12/08/2025	Communications Biology	A new class of binding-protein dependent solute transporter exemplified by the TAXI-GltS system from Bordetella pertussis.	DOI: 10.1038/s42003-025-08591-x
31/07/2025	npj Materials Degradation	Evaluating biocide efficacy in mixed-species biofilms: insights from a dual anaerobic biofilm reactor	DOI.org/10.1038/s41529-025-00628-0
25/07/2025	Cells	Whole RNA-seq analysis reveals longitudinal proteostasis network responses to photoreceptor outer segment trafficking and degradation in RPE cells	DOI.org/10.3390/cells14151166
22/07/2025	Methods in Molecular Biology	Computational approaches for delineating lysosomes and related intracellular trafficking vesicles in confocal and other fluorescence datasets.	DOI: 10.1007/7651_2025_657
10/07/2025	Journal of Materials Chemistry B	Towards the development of supramolecular self-associating amphiphiles as antibiofilm agents against <i>Pseudomonas aeruginosa</i> and <i>Candida albicans</i> biofilms.	DOI: 10.1039/d5tb00653h
10/07/2025	Nature Communications	The mitotic chromosome periphery modulates chromosome mechanics.	DOI: 10.1038/s41467-025-61755-5



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07/07/2025	Journal of General Physiology	Spatially resolving how cMyBP-C phosphorylation and haploinsufficiency in porcine and human myofibrils affect β -cardiac myosin activity.	DOI: 10.1085/jgp.202413628
01/07/2025	Journal of General Virology	Summary of taxonomy changes ratified by the International Committee on Taxonomy of Viruses (ICTV) from the Bacterial Viruses Subcommittee 2025	DOI: 10.1099/jgv.0.002111
26/06/2025	Access Microbiology	Effect of antibiotic administration on Blastocystis persistence and gut microbiome-metabolome dynamics in an irritable bowel syndrome longitudinal case study.	DOI: 10.1099/acmi.0.000926.v4
18/06/2025	Applied and Environmental Microbiology	Toward simulating offshore oilfield conditions: insights into microbiologically influenced corrosion from a dual anaerobic biofilm reactor.	DOI: 10.1128/aem.02221-24
12/06/2025	Physiology and Pathophysiology of Oligodendroglia , Advances in Neurobiology	Physiology of Oligodendroglia.	DOI: 10.1007/978-3-031-87919-7_6
12/06/2025	Physiology and Pathophysiology of Oligodendroglia , Advances in Neurobiology	Morphology of Oligodendroglial Cells.	DOI: 10.1007/978-3-031-87919-7_5



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06/06/2025	Neuropsychopharmacology	Prelimbic cortical excitatory overdrive and inhibitory underdrive accompany environmental suppression of food seeking.	DOI: 10.1038/s41386-025-02142-y
28/05/2025	Environmental DNA	Current affairs: Examining the use of environmental DNA for relative abundance monitoring in a dynamic tidal habitat.	DOI.org/10.1002/edn3.70131
19/05/2025	Journal of the Science of Food and Agriculture Reports	Bridging lab and industry: The impact of a bio-conversion unit on black soldier fly larvae production and microbiome dynamics	DOI.org/10.1002/jsf2.70010
16/05/2025	microPublication Biology	A comparative analysis of distinct assays for the investigation of <i>Caenorhabditis elegans</i> behavior during organophosphate exposure.	DOI: 10.17912/micropub.biology.001533
01/05/2025	International Union of Crystallography Journal	Small but mighty: the power of microcrystals in structural biology.	DOI: 10.1107/S2052252525001484
29/04/2025	Current Research in Parasitology & Vector-Borne Diseases	Global prevalence of <i>Cryptosporidium</i> infections in cattle: A meta-analysis	DOI.org/10.1016/j.crpvbd

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24/02/2025	MicrobiologyOpen	Biofilm formation on endotracheal and tracheostomy tubing: A systematic review and meta-analysis of culture data and sampling method	DOI: 10.1002/mbo3.70032
08/02/2025	Insects	Adult diel locomotor behaviour in the agricultural pest <i>plutella xylostella</i> reflects temperature-driven and light-repressed regulation rather than coupling to circadian clock gene rhythms	DOI: 10.3390/insects16020182
31/01/2025	Chemical Communications	The electrosynthesis of highly encumbered biaryls from aryl o-iodobenzyl ethers by a radical to polar crossover sequence	DOI.org/10.1039/D4CC06061J
19/01/2025	Plant-Environment Interactions	Drought response in the transcriptome and ionome of wild and domesticated <i>lablab purpureus</i> L. Sweet, an underutilized legume	DOI: 10.1002/pei3.70027
13/01/2025	Trends in Ecology and Evolution	Domesticability: were some species predisposed for domestication?	DOI: 10.1016/j.tree.2024.12.007
24/12/2024	Cell Reports	Biochemical and structural characterization of enzymes in the 4-hydroxybenzoate catabolic pathway of lignin-degrading white-rot fungi.	DOI: 10.1016/j.celrep.2024.115002



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21/12/2024	Methods in molecular Biology	Preparation of a substrate for studying nucleosomes on single molecules of DNA.	DOI: 10.1007/978-1-0716-4280-1_16
17/12/2024	Essays in Biochemistry	Characteristics of phage-plasmids and their impact on microbial communities.	DOI: 10.1042/EBC20240014
06/12/2024	npj Materials Degradation	Dual anaerobic reactor model to study biofilm and microbiologically influenced corrosion interactions on carbon steel	DOI: 10.1038/s41529-024-00542-x
29/11/2024	Cell Stress Chaperones	The role of the FKBP51-Hsp90 complex in Alzheimer's disease: An emerging new drug target.	DOI: 10.1016/j.cstres.2024.11.006
27/11/2024	Open Biology	The structure of an amyloid precursor protein/talin complex indicates a mechanical basis of Alzheimer's disease	DOI: 10.1098/rsob.240185
15/11/2024	The EMBO Journal	Differentiation signals induce APOBEC3A expression via GRHL3 in squamous epithelia and squamous cell carcinoma	DOI.org/10.1038/s44318-024-00298-9

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23/10/2024	ACS Omega	Understanding the catalytic efficiency of two polyester degrading enzymes: An experimental and theoretical investigation	DOI/10.1021/acsomega.4c06528
16/10/2024	Research Collaboratory for Structural Bioinformatics Protein Data Bank (RCSB PDB)	Crystal structure of an APP-talin (F2F3) chimera	DOI.org/10.2210/pdb8S4Y/pdb
01/10/2024	Chemical Communications	A solution NMR methodology enabling the elucidation of small molecule phospholipid membrane adhesion and passive permeation parameters	DOI: 10.1039/d4cc01515k
15/05/2024	The Journal of Hospital Infection	Impact of different hand-drying methods on surrounding environment: aerosolization of virus and bacteria, and transfer to surfaces	DOI: 10.1016/j.jhin.2024.03.005
30/04/2024	PeerJ	Cost-effort analysis of Baited Remote Underwater Video (BRUV) and environmental DNA (eDNA) in monitoring marine ecological communities.	DOI: 10.7717/peerj.17091. P
24/04/2024	Biochemical Society Transactions	Atomic force microscopy 3D structural reconstruction of individual particles in the study of amyloid protein assemblies.	DOI: 10.1042/BST20230857



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15/03/2024	Proceedings of the National Academy of Sciences of the United States of America, Biophysics and Computational Biology	A redox switch allows binding of Fe(II) and Fe(III) ions in the cyanobacterial iron-binding protein FutA from Prochlorococcus	https://doi.org/10.1073/pnas.2308478121
01/03/2024	International Union of Crystallography Journal	Droplet microfluidics for time-resolved serial crystallography,	DOI.org/10.1107/S2052252524001799
07/12/2023	Scientific Reports	Functional and genomic characterization of a novel probiotic <i>Lactobacillus johnsonii</i> KD1 against shrimp WSSV infection.	DOI.org/10.1038/s41598-023-47897-w
04/12/2023	Current Biology	Enhancing climate change resilience in agricultural crops	DOI: 10.1016/j.cub.2023.10.028
16/10/2023	Chemical Society Reviews	Tools to enable the study and translation of supramolecular amphiphiles.	DOI: 10.1039/d3cs00480e
11/10/2023	Cerebral Circulation - Cognition and Behavior	A multi-disciplinary commentary on preclinical research to investigate vascular contributions to dementia	DOI: 10.1016/j.cccb.2023.100189



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03/07/2023	Biology	Clutching at guidance cues: The integrin-FAK axis steers axon outgrowth	DOI: 10.3390/biology12070954
30/06/2023	Journal of Visualized Experiments	Optimized production and analysis of recombinant protein-filled vesicles from <i>E. coli</i> .	DOI: 10.3791/65442
24/04/2023	Nucleic Acids Research	Single-molecule analysis of DNA-binding proteins from nuclear extracts (SMADNE)	DOI.org/10.1093/nar/gkad095
17/04/2023	Nature Communications	Chromosome-level genome assembly and population genomic resource to accelerate orphan crop lablab breeding	DOI.org/10.1038/s41467-023-37489-7
12/04/2023	Journal of Materials Chemistry B	Controlling the structure of supramolecular fibre formation for benzothiazole based hydrogels with antimicrobial activity against methicillin resistant <i>Staphylococcus aureus</i>	DOI: 10.1039/d3tb00461a
29/03/2023	Essays in Biochemistry	Structural mass spectrometry approaches to understand multidrug efflux systems	DOI.org/10.1042/EBC20220190

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17/02/2023	iScience	Identification of novel antiviral drug candidates using an optimized SARS-CoV-2 phenotypic screening platform	DOI: 10.1016/j.isci.2023.105944
02/02/2023	Cell Reports Methods	High-yield vesicle-packaged recombinant protein production from <i>E. coli</i>	DOI: 10.1016/j.crmeth.2023.100396
19/01/2023	The New England Journal of Medicine	Drug sensitivity of currently circulating mpox viruses	DOI: 10.1056/NEJMc2212136
11/01/2023	Nature Communications	Annexin A1 is a polarity cue that directs mitotic spindle orientation during mammalian epithelial morphogenesis.	DOI: 10.1038/s41467-023-35881-x
06/01/2023	Frontiers in Microbiology	Phage-encoded carbohydrate-interacting proteins in the human gut	DOI.org/10.3389/fmicb.2022.1083208
27/12/2022	PLoS Genetics	Stress combined with loss of the <i>Candida albicans</i> SUMO protease Ulp2 triggers selection of aneuploidy via a two-step process	DOI: 10.1371/journal.pgen.1010576



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13/12/2022	Journal of Medical Virology	Impact of the COVID-19 pandemic on the circulation of other pathogens in England.	DOI: 10.1002/jmv.28401
10/11/2022	Bioinformatics Advances	Biological network topology features predict gene dependencies in cancer cell-lines.	DOI: 10.1093/bioadv/vbac084
21/09/2022	Cancer Research	ATM regulates differentiation of myofibroblastic cancer-associated fibroblasts and can be targeted to overcome immunotherapy resistance	DOI.org/10.1158/0008-5472.CAN-22-0435
18/08/2022	Chem Catalysis, Cell Press	Discovery, characterization, and metabolic engineering of Rieske non-heme iron monooxygenases for guaiacol O-demethylation.	doi.org/10.1016/j.checat.2022.04.019
30/07/2022	Journal of infection	Synergism of interferon-beta with antiviral drugs against SARS-CoV-2 variants.	doi.org/10.1016/j.jinf.2022.07.023
12/04/2022	Nucleic Acids Research	3DLigandSite: structure-based prediction of protein-ligand binding sites	DOI: 10.1093/nar/gkac250



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01/01/2022	Exercise Immunology Review	The effects of exercise on complement system proteins in humans: a systematic scoping review	eir-2022-001-article.pdf
24/12/2021	Journal of Biological Chemistry	Cholinergic signalling at the body wall neuromuscular junction distally inhibits feeding behaviour in <i>Caenorhabditis elegans</i>	doi.org/10.1016/j.jbc.2021.101466