

- (1) Seduk, F.; Osman, R.; Garcia, P. S.; Bizien-Jaglin, L.; Juyoux, P.; Kosta, A.; Sauvage, S.; Mate, M. J.; Pierrel, F.; Lebrun, R.; Schoehn, G.; Yamaryo-Botte, Y.; Botte, C. Y.; Nicolet, Y.; Cherrier, M. V.; Walburger, A.; Magalon, A. A Bacillales-Specific Tubular Scaffold Essential for NADH Dehydrogenase Activity. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-74385-2>
- (2) Henot, F.; Vibert, B.; Giraud, A.; Dbira, S.; Imbert, L.; Favier, A.; Guntert, P.; Clavier, S.; Crublet, E.; Doyen, C.; Boisbouvier, J.; Frances, O. A Fast and Efficient Strategy for the NMR Assignment of Fab Methyl Groups. *J. Biomol. NMR* **2026**, 80 (1). <https://doi.org/10.1007/s10858-025-00480-z>
- (3) Suarez-Antuna, I.; Tripodi, G. L.; Szaloki, G.; Duboc, C.; Lalaoui, N. A Host-Guest Strategy to Achieve Selective and Robust CO₂-to-CO Electrocatalysis in Aqueous Media. *J. Am. Chem. Soc.* **2026**. <https://doi.org/10.1021/jacs.6c10366>
- (4) Jux, M.; Mebs, S.; Haumann, M.; Katz, S.; Garcia-Serres, R.; Hildebrandt, P.; Wang, Y.; Nam, W.; Ray, K. A Mononuclear Nonheme Iron Complex with Higher Affinity for O than CO via Hydrogen Bonding. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-72599-y>
- (5) Boopathi, R.; Garcia-Saez, I.; Turunc, S.; Lone, I. N.; Kumar, A.; Abu Alhaija, A. A.; Hayes, J. J.; Bednar, J.; Diril, M. K.; Iliev, D.; Gospodinov, A.; Le Roy, A.; Skoufias, D.; Angelov, D.; Hamiche, A.; Kale, S.; Dimitrov, S.; Petosa, C. A Rahman Syndrome Mutation in Histone H1.4 Disrupts Chromatin Compaction and Phase Separation. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-73046-8>
- (6) Feldman, D. M.; Julliard, P.-G.; Madrigalejo, J.-C.; Fortage, J.; Collomb, M.-N.; Costentin, C. A Self-Moderation Mechanism in CO₂ Electroreduction Catalyzed by a Cobalt Macrocyclic Complex. *J. Am. Chem. Soc.* **2026**, 148 (2), 2769–2778. <https://doi.org/10.1021/jacs.5c19804>
- (7) El-Khoury, S.; Glushonkov, O.; Carles, C. C.; Kleman, J.-P. A Streamlined Protocol for Single-Molecule Localization Microscopy in Arabidopsis Nuclei. *JOVE-J. Vis. Exp.* **2026**, No. 231. <https://doi.org/10.3791/70891>
- (8) Lv, Q.; Li, J.; Liu, C.; Samraoui, K. R.; Hutin, S.; Li, X.; Dong, F.; Xiong, H.; Ouyang, Y.; Hu, H.; Li, Y.; Hepworth, J.; Jung, J.-H.; Chen, X.; Zubieta, C.; Xiong, L.; Zhao, Y.; Clemente-Moreno, M. J.; Fang, X.; Flashman, E.; Kudla, J.; Lai, X. Abiotic Stress Sensing in Plants: Biochemical and Biophysical Basis. *Mol. PLANT* **2026**, 19 (8), 1571–1606. <https://doi.org/10.1016/j.molp.2026.05.007>
- (9) Ouali, Y.; Bersch, B.; Brutscher, B. Accurate Quantification of Protein Concentrations and State Populations by 2D H-N Q-BEST NMR. *J. Biomol. NMR* **2026**, 80 (1). <https://doi.org/10.1007/s10858-026-00498-x>
- (10) Thibieroz, N.; Picart, C.; Migliorini, E. Advanced Biomaterial Strategies for 3D in Vitro Biomimetic Neuroblastoma Cell Culture. *Biomater. Sci.* **2026**, 14 (17), 4418–4434. <https://doi.org/10.1039/d6bm00438e>
- (11) Vaglio-Pret, M.; Favre, M.; Ogden, M.; Kochem, A.; Quintard, A. Allylic Alcohols in Borrowing Hydrogen Catalysis: From Simple Substrates to Complex Molecules. *Org. Chem. Front.* **2026**, 13 (11), 3544–3565. <https://doi.org/10.1039/d6qo00148c>
- (12) Kjaer, L. F.; Ielasi, F. S.; Winbolt, T.; Delaforge, E.; Tengo, M.; Nebl, S.; Bouvignies, G.; Palencia, A.; Jensen, M. R. Alternative Splicing of a Structured Partner Alters the Folding-Upon-Binding Trajectory of an Intrinsically Disordered Protein. *J. Am. Chem. Soc.* **2026**, 148 (27), 28401–28413. <https://doi.org/10.1021/jacs.6c04072>
- (13) Ansari, K. U.; Borah, D.; Spillecke, L.; Thangavel, K.; Kumar, P.; Dua, P.; Dey, S.; Klingeler, R.; Clemancey, M.; Rasamsetty, A.; Hill, S.; Blondin, G.; Rajaraman, G.; Shanmugam, M. An Unprecedented Square Planar Fe(III) Complex Exhibiting Spin Crossover Between the Spin-Admixed States. *Chem. - Eur. J.* **2026**, 32 (25). <https://doi.org/10.1002/chem.70994>
- (14) Yagita, T.; Paul, S.; Papawassiliou, W.; Sakiyama, A.; Tomita, Y.; Saito, T.; Hediger, S.; De Paepe, G.; Fujisawa, S. Atomic Structure of Phosphorylated Nanocellulose Revealed by Dynamic Nuclear Polarization-Enhanced Solid-State NMR. *J. Am. Chem. Soc.* **2026**, 148 (4), 4237–4249. <https://doi.org/10.1021/jacs.5c17152>
- (15) Pata, J.; Wiseman, B.; Zarkadas, E.; Baccouch, R.; Samrouth, N.; Desbois, C.; Moissonier, L.; Moreno, A.; Banerjee, A.; Aguerro, S.; Bettler, E.; Dujardin, M.; Magnard, S.; Terreux, R.; Schoehn, G.; Hogbom, M.; Boumendjel, A.; Lamping, E.; Cannon, R. D.; Prasad, R.; Chaptal, V.; Falson, P. ATP-Driven Dynamics and Itraconazole Binding of the Drug Efflux Pump Cdr1 from *Candida Glabrata*. *EMBO J.* **2026**. <https://doi.org/10.1038/s44318-026-00920-y>
- (16) Tardieux, V.; Aubret, M.; Parent, C.; Fouillet, Y.; Laurent, P.; Saint-Pierre, C.; Boizot, F.; Gherbi, I.; Gudimard, L.; Buhot, A.; Cubizolles, M. Automated Sample Preparation Microfluidic Platform for

- Immuno-LAMP Detection: Application to Troponin I Quantification. *Anal. METHODS* **2026**, 18 (39). <https://doi.org/10.1039/d6ay00864j>
- (17) Fan, Y.; Svomova, B.; Lepsik, M.; Przybylski, C.; Daniel, R.; Renault, K.; Laurent, G.; Imbert, A.; Xie, J. Azobenzene-Bridged Potent Divalent Ligands of *Pseudomonas Aeruginosa* LecA. *BIOORGANIC Chem.* **2026**, 182. <https://doi.org/10.1016/j.bioorg.2026.110572>
 - (18) Chaise, S.; Didierjean, C.; Gacogne, A.; Fillaudeau, M.; Kang, Y. K.; Lebrun, A.; Bantignies, J.-L.; Housset, D.; Amblard, M.; Maillard, L. T.; Legrand, B. Azole γ -Peptides Helix Switching via Heterocycle Substitutions. *Angew. Chem.-Int. Ed.* **2026**, 65 (36). <https://doi.org/10.1002/anie.9299244>
 - (19) Gunther, M.; De Tovar, J.; Olivetto, L.; Miere, A.; Philouze, C.; Belle, C.; Le Goff, A.; Thibon-pourret, A. Bio-Inspired Toluene Oxidation Electrocatalysis by a Carbon-Nanotube-Supported Dicopper(II, II) Complex. *Chem. - Eur. J.* **2026**, 32 (10). <https://doi.org/10.1002/chem.202503250>
 - (20) Ayed, Z.; Alhalabi, A.; Gasparutto, D.; Le Guevel, X. Biological Templates for Gold Nanocluster Assembly: Design and Biomedical Applications. *AGGREGATE* **2026**, 7 (2). <https://doi.org/10.1002/agt2.70261>
 - (21) Manessier, J.; Hijazi, H.; Vizzini, L.; Brugiére, S.; Courcon, M.; Masselon, C.; de la Iglesia, A.; Cocquet, J.; Pflieger, D. Both L-Lactyl and D-Lactyl Enantiomers Modify Histones in Mouse Testis. *Mol. Cell. PROTEOMICS* **2026**, 25 (7). <https://doi.org/10.1016/j.mcpro.2026.101601>
 - (22) Duong, T. M.; Aldakov, D.; Ling, W. L.; Dang, L. S.; Nogues, G.; Reiss, P. Bright and Photostable Alumina-Coated Perovskite Nanocrystals for Integration into Quantum Emitters. *J. Phys. Chem. C* **2026**, 130 (12), 4485–4494. <https://doi.org/10.1021/acs.jpcc.6c00028>
 - (23) Cavallari, E.; Tolleter, D.; Giustini, C.; Menneteau, M.; Curien, G.; Allorent, G. Carbon Source Flexibility in *Chlamydomonas Reinhardtii*: Impact of Glycolate on Mixotrophic Growth. *Physiol. Plant.* **2026**, 178 (2). <https://doi.org/10.1111/ppl.70878>
 - (24) Avilan, L.; Gerard, C.; Scholivet, A.; Peltier, G.; Lebrun, R.; Fourmond, V.; Guendon, C.; Carletti, M.; Seres, Y.; Salvaing, J.; Receveur-Brechot, V.; Amato, A.; Maberly, S.; Gontero, B.; Launay, H. Carbonic Anhydrase Activity under Low Zinc in *Phaeodactylum Tricornutum* Largely Depends on Metal-Free Iota-Carbonic Anhydrase. *PLANT Physiol.* **2026**, 202 (1). <https://doi.org/10.1093/plphys/kiag510>
 - (25) Angulo, J.; Uwizeye, C.; Albanese, P.; Menneteau, M.; Ravanel, S.; Gallet, B.; Jouneau, P.-H.; Finazzi, G.; Courtois, F. Chloroplast-Mitochondria Synergy Modulates Responses to Iron Limitation in Two *Thalassiosira* Diatom Species. *ISME Commun.* **2026**, 6 (1). <https://doi.org/10.1093/ismeco/ycag236>
 - (26) Calvar, G.; Hamandjian, A.; Crumière, M.; Dupuy, J.-W.; Moriscot, C.; Gallet, B.; Gillet, F.-X.; de Vallee, A.; Bruel, C.; Choquer, M.; Poussereau, N. Contribution of the Putative Clathrin Adaptor AP-1 Subunit β to Cell Wall Integrity and Virulence Factor Secretion in the Plant Pathogen *Botrytis Cinerea*. *FUNGAL Biol.* **2026**, 130 (6). <https://doi.org/10.1016/j.funbio.2026.101803>
 - (27) Suresh, A.; Wojcik, L.; Birara, S.; Gunther, M.; Youssef, K.; Sutradhar, S.; Jamet, H.; Thibon-Pourret, A.; Simaan, A. J.; Belle, C.; Reglier, M.; Le Poul, N. Copper-Oxygen Adducts as Reactive Species for C-H Bond Activation and Oxygen Reduction/Evolution Reactions. *Coord. Chem. Rev.* **2026**, 563. <https://doi.org/10.1016/j.ccr.2026.218032>
 - (28) Caramello, N.; Rose, S. L.; Mathieu, E.; Petit, L.; Tews, I.; Engilberge, S.; Royant, A. Coupled On-Line in Crystallo UV-Vis Absorption Spectroscopy and X-Ray Crystallography to Compare Specific Radiation Damage in Metal-Containing Proteins at Room versus Cryogenic Temperature. *ACTA Crystallogr. Sect. -Struct. Biol.* **2026**, 82 (3), 187–198. <https://doi.org/10.1107/S2059798326000690>
 - (29) Boukhallat, M.; Benhamed, I.; Arnone, J.; Van Barren, S.; Rinaldi, C.; Catty, P.; Marchi-Delapierre, C.; Cavazza, C.; Menage, S. Covalent Insertion of a Mn(Salen) Type Complex in Cross-Linked Protein Crystals: Design of an Enantioselective Artificial Epoxidase. *Chem. - Eur. J.* **2026**, 32 (34). <https://doi.org/10.1002/chem.71159>
 - (30) Jomaa, H.; Martin, D.; Tomas-Mendivil, E. Cross-Coupling of Aryl Aldehydes and Benzyl Chlorides Enabled by Dual N-Heterocyclic Carbene/Cobalt Catalysis. *Chem. Commun.* **2026**, 62 (39), 9894–9898. <https://doi.org/10.1039/d6cc01204c>
 - (31) Rouag, R.; Benahsene, A. H.; Dems, M. A.; Hadjadj, N.; Philouze, C.; Py, S.; Bendjeddou, L. Crystal Structure, Hirshfeld Surface Analysis, Computational Study, Molecular Docking Predictions and Biological Evaluation of a New Schiff Base (E)-2-((2,4-Dichlorobenzylidene)Amino)Aniline. *J. Mol. Struct.* **2026**, 1357. <https://doi.org/10.1016/j.molstruc.2026.145251>

- (32) Frances, N.; Giustini, C.; Finazzi, G.; Ferro, M.; Albanese, P. Deciphering Photosynthetic Protein Networks: A Crosslinking-MS Strategy for Studying Functional Thylakoid Membranes. *PLANT J.* **2026**, 126 (5). <https://doi.org/10.1111/tpj.70952>
- (33) McKellar, J.; Fouillen, A.; Lyonnais, S.; Blanchard, M.-P.; Seigneuret, F.; Trullo, A.; Denis, Z.; Sleiman, R.; Le Bon, B.; Berry, L.; Kumarasinghe, L.; Bouget, J.; Apostel, A.; Bacia-Verloop, M.; Messaoud-Nacer, Y.; Colomb, S.; Desagher, S.; Vila, I. K.; De Rossi, S.; Laguette, N.; Granier, S.; de Rocquigny, H.; Gaudin, R.; Courgnaud, V.; Gutsche, I.; Hepojoki, J.; Majzoub, K. Deltaviruses Spread through a Viral Trojan Horse. *CELL* **2026**, 189 (9), 2748–2761. <https://doi.org/10.1016/j.cell.2026.01.037>
- (34) Bridou, L.; Nhari, A.; Collobert, L.; Akl, D.; Kiraev, S. R.; Malikidogo, K. P.; Molloy, J. K.; Le Guennic, B.; Beyler, M.; Tripier, R.; Maury, O.; Seneque, O. Design of Water-Soluble Lanthanide Luminescent Probes for the Selective Detection of HOCl. *DALTON Trans.* **2026**, 55 (8), 3287–3295. <https://doi.org/10.1039/d5dt02832a>
- (35) Arnone, J.; Boukhallat, M.; Marchi-Delapierre, C.; Menage, S.; Cavazza, C. Designing Ligands for Tuning the Active Site of Novel Artificial Vanadium-Based Enzymes for Sulfoxidation. *J. Inorg. Biochem.* **2027**, 286. <https://doi.org/10.1016/j.jinorgbio.2026.113446>
- (36) Arjunan, S.; Maldivi, P.; Milet, A. DFT Elucidation of the Catalytic Mechanism for CO₂-to-CH₄ Conversion by a NiFe Biomimetic Complex. *DALTON Trans.* **2026**, 55 (35), 12785–12797. <https://doi.org/10.1039/d6dt00978f>
- (37) Julliard, P.-G.; Duquesnoy, M.; Durin, G.; Chardon-Noblat, S.; Costentin, C. Disentangling Potential Inversion and Electron Transfer Kinetics in Two-Electron Systems Using Convolution Voltammetric Analysis. *ACS Electrochem.* **2026**, 2 (8), 1807–1817. <https://doi.org/10.1021/acselectrochem.6c00103>
- (38) Le Questel, E.; Besnard, C.; Atger, F.; Foucher, Y.; Tollec, A.; Pakulska, V.; Oliveira, A. R.; Cloteau, C.; Gourdel, M.; Nemazanyy, I.; Thouzeau, A.; Le May, C.; Croyal, M.; Coute, Y.; Jacobi, D.; Cariou, B.; Mauvoisin, D. Diurnal Regulation of Acyl-CoA Synthetase 3 (ACSF3) Governs Rhythmic Mitochondrial Lysine-Malonylation and Daily Hepatic Metabolism. *CELL Rep.* **2026**, 45 (8). <https://doi.org/10.1016/j.celrep.2026.117774>
- (39) Cannella, D.; Pachano, B.; Shahinas, M.; Belmudes, L.; deVries, J.; Corrao, C.; Pounot, L.; Hesse, A.-M.; Coute, Y.; Bougdour, A.; Swale, C.; Hakimi, M.-A. Divergent SAGA Complexes Shape the Toxoplasma Transcriptome for Lytic Cycle Progression and Host Interaction. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-77153-4>
- (40) Almyre, C.; Cayer, A.-L.; Bounaix, N.; Hoarau, A.; Derieppe, M.-A.; Martineau, J.; Costet, P.; Charles, C.; Dufossee, M.; Duplaa, C.; Dompierre, J.; Salin, B.; D'Elia, M.-A.; Blancard, C.; Massoni-Laporte, A.; Claverol, S.; Tokarski, C.; Hashem, Y.; Favereaux, A.; Hovhannisyan, Y.; Jouhet, J.; Guimaraes, C.; Dumas, J.-F.; Baris, O. R.; Dard, L.; Richard, J.; Bergeron, V.; Gueguen, N.; Desquirit-Dumas, V.; Rivron, J.; Strathdee, D.; Sellem, C. H.; Bonnefoy, N.; Monassier, L.; Ayme-Dietrich, E.; Agbulut, O.; Azoulay, S.; di Rago, J.-P.; Procaccio, V.; Godard, F.; Tribouillard-Tanvier, D. Ebselen Restores Mitochondrial Function through Metabolic Rewiring in Barth Syndrome and Related Mitochondrial Diseases. *EMBO Mol. Med.* **2026**. <https://doi.org/10.1038/s44321-026-00518-1>
- (41) Aymard, N.; Darmaillacq, A.; Bailly, S.; Kechichian, A.; Baillieul, S.; Bernardy, C.; Gastaldi, R.; Flore, P.; Baillet, A.; Mendelson, M. Ecological Momentary Assessment of Daily Patient-Reported Outcomes and Actigraphy-Measured Physical Activity and Sleep in Patients with Rheumatoid Arthritis and Spondyloarthritis: A Study Protocol. *BMJ OPEN* **2026**, 16 (2). <https://doi.org/10.1136/bmjopen-2025-113370>
- (42) Vitipon, M.; Akingbagbohun, E.; Collin-Faure, V.; Devime, F.; Diemer, H.; Fenel, D.; Carapito, C.; Ravanel, S.; Rabilloud, T. Effects of Manganese Dioxide on Macrophages under Different Exposure Schemes. *J. Hazard. Mater. Adv.* **2026**, 23. <https://doi.org/10.1016/j.hazadv.2026.101337>
- (43) Collin-Faure, V.; Villacorta, A.; Diemer, H.; Cianferani, S.; Marcos, R.; Hernandez, A.; Carriere, M.; Darrouzet, E.; Rabilloud, T. Effects of True to Life Polyethylene Terephthalate and Polycaprolactone Nanoparticles on Macrophages under a Repeated Exposure Mode. *NANOIMPACT* **2026**, 41. <https://doi.org/10.1016/j.impact.2026.100615>
- (44) Tripodi, G. L.; Chatelain, L.; Klement, B. J.; Bulourde, A.; Duboc, C.; Lalaoui, N. Electrochemical CO₂ Reduction by Phosphine-Modified [FeFe]-Hydrogenase Models. *DALTON Trans.* **2026**. <https://doi.org/10.1039/d6dt01600f>
- (45) Safi, H.; Schmitt, A.; Tollec, A.; Belmudes, L.; Colmant, A. M. G.; Poirot, O.; Santini, S.; Legendre, M.; Coute, Y.; Bisio, H.; Abergel, C. Elucidating the Protein Interaction Network of One of the

- Largest Icosahedral Capsids in the Virosphere. *EMBO J.* **2026**, 45 (10), 3514–3539.
<https://doi.org/10.1038/s44318-026-00770-8>
- (46) Pollastri, S.; Delaunay, C.; Antonini, G.; Froment, C.; Thepaut, M.; Pasquali, D.; Mazzotta, S.; Belvisi, L.; Marcoux, J.; Fieschi, F.; Dal Corso, A.; Bernardi, A. Engagement of a Neighboring Lys Residue by a Salicylaldehyde-Modified Glycomimetic Ligand Enables Potent and Selective Binding to DC-SIGN Over L-SIGN. *CHEMISTRYEUROPE* **2026**, 4 (5).
<https://doi.org/10.1002/ceur.202500485>
- (47) Silva-Diaz, A.; Thepaut, M.; Ramirez-Cardenas, J.; Perez-Alonso, C.; Munoz-Garcia, J. C.; de la Fuente, M. C.; Fieschi, F.; Angulo, J.; Ramos-Soriano, J.; Rojo, J. Enhancing Lectin Recognition via Precise Fluorination: Man5 Glycomimetics for Targeting DC-SIGN. *BIOORGANIC Chem.* **2026**, 174.
<https://doi.org/10.1016/j.bioorg.2026.109747>
- (48) Roudini, M.; Dartiguelongue, L.; Kraut, A.; Cumaku, V.; Tsirkou, A.; Fortin, T.; Sansa, M.; Boulanger, P.; Winkler, A.; Masselon, C. D. Evaluation of Surface Acoustic Wave Nebulization for NEMS Mass Spectrometry. *J. MASS Spectrom.* **2026**, 61 (8). <https://doi.org/10.1002/jms.70084>
- (49) Nayek, A.; Lalaoui, N.; Duboc, C. First Row Transition Metal Dinuclear Complexes for H₂ Production and CO₂ Reduction: From Homogeneous to Heterogeneous Conditions. *Coord. Chem. Rev.* **2026**, 566 (1). <https://doi.org/10.1016/j.ccr.2026.218063>
- (50) Groger, H.; Trouba, C.; Barbaste, J.; Lacroix, G.; Schoehn, G.; Burmeister, W. P.; Tarbouriech, N. High-Resolution Structure of the Vaccinia Virus Phospholipase D-Fold Endonuclease K4. *J. Mol. Biol.* **2026**, 438 (21). <https://doi.org/10.1016/j.jmb.2026.169961>
- (51) Carota, A. G.; Spiaggia, F.; Poma, N.; Palladino, P.; Cuffaro, D.; Vivaldi, F.; Ravelet, C.; Di Francesco, F.; Minunni, M. Highly Fluorescent Copper Nanoclusters as Programmable Reporters for CRISPR/Cas12a-Based Detection of Bacterial DNA. *Biosens. Bioelectron.* **2026**, 300.
<https://doi.org/10.1016/j.bios.2026.118492>
- (52) Khalil, M.; Saint-Pierre, C.; Rapatskiy, L.; Bruzzese, P. C.; Mouesca, J.-M.; Tkach, I.; Dantu, S. C.; Gasparutto, D.; Sicoli, G. Hunting Endogenous and Exogenous Radicals in DNA Cleavage Catalyzed by a Mn²⁺-Dependent Deoxyribozyme. *J. Phys. Chem. B* **2026**, 130 (26), 6521–6530.
<https://doi.org/10.1021/acs.jpcc.6c00834>
- (53) Bassut, J.; Mehic, E.; Cuvillier, L.; Vergne-Vaxelaire, C.; Petit, J.-L.; Michaud, M.; Anxionnaz-Minvielle, Z.; Zapparucha, A.; Nonglaton, G. Immobilization of Alginate Microbeads With Whole-Cells Expressing Nitrilase for Continuous Nicotinic Acid Production in Chip Millireactor. *Biotechnol. Bioeng.* **2026**. <https://doi.org/10.1002/bit.70391>
- (54) Ricloux, O.; Jongwohan, C.; Dubacheva, G. V.; Coche-Guerente, L.; Laurent, Q.; Boturyn, D. Impact of Clustered Antigenic Architectures on the Adhesion of Monoclonal Antibodies: Insights from Biomimetic Model Surfaces. *Anal. Chem.* **2026**, 98 (26), 19418–19426.
<https://doi.org/10.1021/acs.analchem.5c07274>
- (55) Visona, A.; Soulan, S.; Dieny, B.; Morel, R.; Nicolas, A. Impact of Static and Dynamic Magneto-Mechanical Stimulation with Vortex Microdiscs on Glioblastoma Cells Cultured on 2D Substrates with Physiological Stiffness. *NANOSCALE Adv.* **2026**, 8 (13), 3721–3735.
<https://doi.org/10.1039/d5na00976f>
- (56) El-Dahshan, O.; Stepanova, A.; Barek, R.; Deniaud, A.; Battocchio, C.; Proux, O.; Maurin, I.; Ling, W. L.; Reiss, P.; Veronesi, G. Insight into Microwave-Assisted Growth of Water-Soluble Ag₂S Nanocrystals. *J. Phys. Chem. C* **2026**, 130 (35), 12479–12490.
<https://doi.org/10.1021/acs.jpcc.6c02974>
- (57) Beaulier, C.; Devime, F.; Galeone, A.; Larbi, G. S.; Israel, A.; Jouneau, P.-H.; Przybyla-Toscano, J.; Alban, C.; Ravanel, S. Integrated Cellular and Molecular Responses to Uranium Chemotoxicity in the Metal-Tolerant Microalga *Coelastrella* Sp. PCV. *J. Hazard. Mater.* **2026**, 513.
<https://doi.org/10.1016/j.jhazmat.2026.142335>
- (58) Hut, M.; Clement, F.; Tubbs, E.; Caullet, P.; Armanet, M.; Domet, T.; Bouzakri, K.; Bietiger, W.; Navarro, F. P.; Fouillet, Y.; Agache, V. Integrated Pneumatic Micro-Pump for Automated Glucose-Stimulated Insulin Secretion in Single-Islet Microfluidic Platform. *BIOFABRICATION* **2026**, 18 (1).
<https://doi.org/10.1088/1758-5090/ae2a72>
- (59) Rios-Santacruz, R.; Poddar, H.; Pounot, K.; Heyes, D. J.; Coquelle, N.; Mackintosh, M. J.; Johannissen, L. O.; Schianchi, S.; Jeffreys, L. N.; De Zitter, E.; Munro, R.; Appleby, M.; Axford, D.; Beale, E. V.; Cliff, M. J.; Davila-Miliani, M. C.; Engilberge, S.; Gotthard, G.; Hadjidemetriou, K.; Hardman, S. J. O.; Horrell, S.; Hub, J. S.; Ishihara, K.; Jaho, S.; Karras, G.; Kataoka, M.; Kawakami, R.; Mason, T.; Okumura, H.; Owada, S.; Owen, R. L.; Royant, A.; Saaret, A.; Sakuma, M.;

- Shanmugam, M.; Sugimoto, H.; Tono, K.; Zala, N.; Beale, J. H.; Tosha, T.; Colletier, J.-P.; Levantino, M.; Hay, S.; Kozłowski, P. M.; Leys, D.; Scrutton, N. S.; Weik, M.; Schiro, G. Integrated Structural Dynamics Uncover a New B12 Photoreceptor Activation Mode. *NATURE* **2026**, 650 (8103). <https://doi.org/10.1038/s41586-025-10074-2>
- (60) Pardo Larrabeiti, I.; Eibinger, M.; Esque, J.; Pradeau, S.; Fort, S.; Morais, S.; Mizrahi, I.; Bayer, E. A.; Nidetzky, B.; Montanier, C. Y.; Roblin, P.; Dumon, C. Integrative SAXS and AFM Analysis of Engineered Carbohydrate-Active Enzyme Assemblies with Tunable Spatial Organization. *PROTEIN Sci.* **2026**, 35 (7). <https://doi.org/10.1002/pro.70649>
- (61) Catacora-Grundy, A.; Kramer, N.; Jakobsen, S. L.; Kuhl, M.; Decelle, J.; Wangpraseurt, D. Intra-Colony Light Gradients Drive Variation in Coral Symbiont Morphology and Carbon Storage. *ISME J.* **2026**, 20 (1). <https://doi.org/10.1093/ismejo/wrag006>
- (62) Haake, M.; Caumes, C.; Bjornsson, R.; Saint-Pierre, C.; Gasparutto, D.; Veronesi, G.; Tapia, A. A.; Artero, V.; Reuillard, B. Investigating the Intrinsic Activity, Nature, and Deactivation Pathway of a Carbon-Nanotube-Confined Molecular Co Catalyst for CO₂ Reduction. *J. Am. Chem. Soc.* **2026**, 148 (13), 13973–13984. <https://doi.org/10.1021/jacs.5c22597>
- (63) Costentin, C. Ions in the Way: How Supporting Electrolytes Gate Interfacial Proton-Coupled Electron Transfer. *JOULE* **2026**, 10 (3). <https://doi.org/10.1016/j.joule.2026.102385>
- (64) Berdal, V.; Py, B.; de Choudens, S. O.; Kremer, L.; Daher, W. Iron-Sulfur Proteins in Mycobacteria: Master Regulators of Physiology and Pathogenesis. *TRENDS Microbiol.* **2026**, 34 (1), 62–75. <https://doi.org/10.1016/j.tim.2025.06.014>
- (65) Burger, T. Keeping Generative Artificial Intelligence Reliable in Omics Biology. *PATTERNS* **2026**, 7 (1). <https://doi.org/10.1016/j.patter.2025.101417>
- (66) Askarian-Amiri, S.; Weissenhorn, W.; Sadoul, R.; Chatellard, C. Lack of Evidence for Cargo Release of CD63-EVs into Recipient Cells. *Sci. Rep.* **2026**, 16 (1). <https://doi.org/10.1038/s41598-026-45021-2>
- (67) Babin, M.; Deming, J. W.; Marechal, E.; Rapp, J. Z.; Rysgaard, S.; Vancoppenolle, M. Life in the Frozen Ocean. *Annu. Rev. Mar. Sci.* **2026**, 18 (1), 275–299. <https://doi.org/10.1146/annurev-marine-032123-025316>
- (68) Lucas, A.; Appaix, F.; Allard, J.; Mevel-Aliset, M.; Radu, A. G.; Fauvelle, F.; Favier, B.; Grichine, A.; Maurer, J.; Hainaut, P.; Attardi, L.; Billaud, M.; Torch, S.; Thibert, C. LKB1 Functions as a Checkpoint for Neuronal-Glial Balance during Enteric Nervous System Development. *GENES Dev.* **2026**, 40 (15–16), 1227–1249. <https://doi.org/10.1101/gad.353358.125>
- (69) Stubbs, J.; Caramello, N.; Rodrigues, M. J.; Engilberge, S.; Mathieu, E.; Rose, S. L.; Evans, G.; Royant, A.; Tews, I. Mapping the Effects of Specific Radiation Damage and Solvent Radiolysis in Buffers and Crystals with Online UV-Vis Absorption Spectroscopy. *ACTA Crystallogr. Sect. -Struct. Biol.* **2026**, 82 (5), 504–515. <https://doi.org/10.1107/S2059798326002743>
- (70) Barbaroux, A.; Chovelon, B.; Fiore, E.; Vezirian, S.; Henry, M.; Zoubeydi, M.; DeRosa, M. C.; Ravelet, C.; Peyrin, E. Matrix-Activated Aptamer Sensors for Human Serum Analysis. *Angew. Chem.-Int. Ed.* **2026**, 65 (42). <https://doi.org/10.1002/anie.3409471>
- (71) Sun, L.; Lalaoui, N.; Arjunan, S.; Suarez-Antuna, I.; Philouze, C.; Molton, F.; Maldivi, P.; Artero, V.; Milet, A.; Duboc, C. Mechanistic Tuning of a Bio-Inspired NiFe Catalyst through Proton Relay Introduction for Enhanced H₂ Production. *ACS Catal.* **2026**. <https://doi.org/10.1021/acscatal.6c01984>
- (72) Peplowska, K.; Huotari, J.; Czechowska, K.; Vitipon, M.; Collin-Faure, V.; Chartier-Garcia, E.; Hrynyszyn, A.; Kurylak, W.; Mazur, J.; Salo, S.; Darrouzet, E.; Wrona, A.; Rabilloud, T. Metal Oxide Doping Modulates the Performances of Copper Oxide Nanoparticulate Biocides. *NANOMATERIALS* **2026**, 16 (10). <https://doi.org/10.3390/nano16100576>
- (73) Nagarajan, S. N.; Manuse, S.; Juillot, D.; Claude, L.; Ravikumar, V.; Neumann, E.; Lavergne, J.-P.; Franz-Wachtel, M.; Macek, B.; Mijakovic, I.; Morlot, C.; Carballido-Lopez, R.; Grangeasse, C. Methicillin Treatment Reveals That FtsZ Phosphorylation Influences the Cell Division of *Streptococcus Pneumoniae*. *PNAS NEXUS* **2026**, 5 (6). <https://doi.org/10.1093/pnasnexus/pgag200>
- (74) Wissink, M.; Engilberge, S.; Leao, P.; Jansen, R. S.; Jetten, M. S. M.; Belhamri, M.; Lemaire, O. N.; Royant, A.; Welte, C. U.; Wagner, T. Mini-Bacterioferritins: Structural Insight into a Ferritin-like Protein from the Anaerobic Methane-Oxidising Archaeon *Candidatus Methanoperedens Carboxydvorans*. *Commun. Biol.* **2026**, 9 (1). <https://doi.org/10.1038/s42003-026-09796-4>

- (75) Aubry, L.; Blanchemanche, M.; Breuille, L.; Rabilloud, T.; Douki, T. Modulation of the Toxicity of Three Red Tattoo Pigments by Artificial Aging. *Chem. Res. Toxicol.* **2026**, 39 (3), 347–360. <https://doi.org/10.1021/acs.chemrestox.5c00451>
- (76) Zabelskii, D.; Bukhdruker, S.; Lamm, G. H. U.; Bukhalovich, S.; Aoyama, M.; Sudarev, V.; Kuzmin, A.; Shibata, M.; Kotayama, K.; Kandori, H.; Wachtveitl, J.; Bamberg, E.; Gordeliy, V. Molecular Mechanism of Calcium Inhibition in Viral Channelrhodopsins. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-77716-5>
- (77) Caron, P.; Hans, F.; Timmins, J. Navigating the Base Excision Repair Pathway in Chromatin-Focus on Oxidative DNA Damage. *NUCLEIC ACIDS Res.* **2026**, 54 (16). <https://doi.org/10.1093/nar/gkag860>
- (78) Desveaux, J.-M.; Faudry, E.; Contreras-Martel, C.; Cretin, F.; Dergan-Dylon, L. S.; Amen, A.; Bally, I.; Tardivy-Casemajor, V.; Chenavier, F.; Fouquenot, D.; Caspar, Y.; Attree, I.; Dessen, A.; Poignard, P. Neutralizing Human Monoclonal Antibodies That Target the PcrV Component of the Type III Secretion System of *Pseudomonas Aeruginosa* Act through Distinct Mechanisms. *ELIFE* **2026**, 14. <https://doi.org/10.7554/eLife.105195>; <https://doi.org/10.7554/eLife.105195.3>; <https://doi.org/10.7554/eLife.105195.3>; <https://doi.org/10.7554/eLife.105195.3>
- (79) de la Fuente, B. S.; Villamayor-Belinchon, L.; Ciges-Tomas, J. R.; Lopez-Redondo, M.; Espinosa, C.; Erba, E. B.; Llacer, J. L. Novel Insights into the Assembly of the Yeast Translation Initiation Multifactor Complex: The Critical Role of eIF5. *PROTEIN Sci.* **2026**, 35 (5). <https://doi.org/10.1002/pro.70550>
- (80) Couturier, N.; Castellano, L.; Ghasemizadeh, A.; Christin, E.; Sebastien, M.; Brun, C. E.; Caillol, D.; Malleval, C.; Janin, A.; Juban, G.; Osseni, A.; Thomas, J.-L.; Koenig, S.; Brunetti, J.; Kraut, A.; Coute, Y.; Streichenberger, N.; Mounier, R.; Gache, V. NuMA1 Controls Myonuclear Motility in Striated Skeletal Muscle through AMPK Activity and Is Impaired in Duchenne Muscular Dystrophy. *CELL DEATH Dis.* **2026**, 17 (1). <https://doi.org/10.1038/s41419-026-08987-5>
- (81) Olivotto, L.; Righetti, C.; Perard, J.; Kuhnle, M. F.; Cavazza, C.; Le Goff, A. O₂-Tolerant CO₂-to-CO Reduction by Air-Sensitive Carbon Monoxide Dehydrogenases in Hydrated Deep Eutectic Solvents. *EES Catal.* **2026**. <https://doi.org/10.1039/d6ey00091f>
- (82) Geoffroy, M.; Polyakov, I.; Reigstad, M.; Acinas, S. G.; Amiraux, R.; Angot, H.; Ardyna, M.; Babin, M.; Bowler, C.; Couet, D.; Eddy, T. D.; Falcioratore, A.; Guidi, L.; Hoppmann, M.; Houssais, M.-N.; Karp-Boss, L.; Lovejoy, C.; Marechal, E.; Pelletier, E.; Ortega-Retuerta, E.; Ghiglione, J.-F.; Pohnert, G.; Rabe, B.; Salazar, G.; Schmale, J.; Schuback, N.; Sullivan, M.; Tippenhauer, S.; Trouble, R.; Trudnowska, E.; Vardi, A.; Vincent, F. Oceanography, Biogeochemical Cycles, and Biodiversity in the Central Arctic Ocean: Current State of Knowledge and Research Directions for the Tara Polaris Expeditions Introduction. *Elem.-Sci. Anthr.* **2026**, 14 (1). <https://doi.org/10.1525/elementa.2025.00027>
- (83) Favre, M.; Kochem, A.; Quintard, A. Overcoming Reversibility: Borrowing Hydrogen Enables Enantioselective Intermolecular Oxa-Michael Addition to α,β -Unsaturated Aldehydes. *Org. Lett.* **2026**, 28 (41), 12935–12940. <https://doi.org/10.1021/acs.orglett.6c03708>
- (84) Lionneton, A.; Bruley, C.; Burger, T. Performance Is Not All You Need! Comment on “Unsupervised Machine Learning for Differential Analysis in Proteomics.” *Anal. Chem.* **2026**, 98 (16), 12170–12173. <https://doi.org/10.1021/acs.analchem.5c06848>
- (85) Darmau, B.; Mishyn, V.; Elloumi, A.; Texier, I.; Gross, A. J. Photocrosslinked Dextran Hydrogel Coatings with FAD-Glucose Dehydrogenase for Continuous Glucose Monitoring in Complex Media: Key Role of Methacrylation Degree on Bioelectrocatalytic Activity and Sensor Stability. *Biosens. Bioelectron.* **2026**, 303. <https://doi.org/10.1016/j.bios.2026.118575>
- (86) Shen, Q.; Barnette, T.; Courvoisier-Dezord, E.; Le Goff, A.; Tron, T.; Ciaccafava, A. Probing Electron Pathways to Multicopper Oxidase Copper Centers Reveals Shortcut for Enhancing Oxygen Reduction Reaction. *BIOELECTROCHEMISTRY* **2026**, 171. <https://doi.org/10.1016/j.bioelechem.2026.109322>
- (87) Bournaud, C.; Tollec, A.; Danchin, E. G. J.; Coute, Y.; Eves-van den Akker, S. Profiling DNA-Protein Interactions in *Meloidogyne Incognita* Using dCas9-Based Affinity Purification. *PLANT METHODS* **2026**, 22 (1). <https://doi.org/10.1186/s13007-025-01475-5>
- (88) Plessier, A.; Chansard, A.; Petit, E.; Novion Ducassou, J.; Coute, Y.; Polo, S. E. Proteomic Profiling of UV Damage Repair Patches Uncovers Histone Chaperones with Central Functions in Chromatin Repair. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-68781-x>

- (89) Perez Compte, D.; Hesse, A.-M.; Gilquin, B.; Courcon, M.; Coute, Y.; Jaquinod, M.; Bruley, C.; Brun, V. PSAQ+1: Absolute Protein Quantification Using a ¹³C₁-Labeled Protein Standard, Coisolation of Peptide Pairs and LC-PRM. *Anal. Chem.* **2026**, 98 (27), 19984–19991. <https://doi.org/10.1021/acs.analchem.6c02932>
- (90) Razew, A.; Herail, Q.; Ayala, I.; Guissouma, M.; Arthur, M.; Simorre, J.-P. Quantifying Outer Membrane Permeability to β -Lactam Antibiotics Using Outer Membrane Vesicles That Protect Antibiotic-Susceptible Bacteria. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-75817-9>
- (91) Cesaire, M.; Lecrosnier, K.; Montanari, J.; Sitarz, M.; Messaoudi, S.; Chartier-Garcia, E.; Testard, I.; Levallet, G.; Christy, F.; Candeias, S.; Chevalier, F. Radio-Sensitization of Mutated KRAS G12C Non-Small Cell Lung Cancer with KRAS G12C Tyrosine Kinase Inhibitor and Carbon Ions Irradiation. *Mol. Cell. Biochem.* **2026**, 481 (9), 4441–4452. <https://doi.org/10.1007/s11010-026-05668-x>
- (92) Coste, K.; Hesse, A.-M.; Marceau, G.; Filhol, O.; Cochet, C.; Freton, C.; Blanchon, L.; Sapin, V.; Belville, C. RAGE Phosphorylation by CK2 in Human Epithelial Cell Model: Modulation of Connexin 43 Expression. *ISCIENCE* **2026**, 29 (8). <https://doi.org/10.1016/j.isci.2026.117117>
- (93) Pardoux, E.; Bastien, L.; Mathey, R.; Buhot, A.; Boisset, S.; Boturyn, D.; Roupioz, Y. Rapid Classification of Live Bacteria in Blood Using Antimicrobial Peptide Microarrays. *J. Mater. Chem. B* **2026**, 14 (39), 12320–12329. <https://doi.org/10.1039/d6tb00941g>
- (94) Costentin, C. Recent Progress in Analyzing Molecular Electrocatalytic Mechanisms: Catalyst Deactivation, Self-Moderation, and Self-Protection. *ELECTROCHIMICA ACTA* **2026**, 565. <https://doi.org/10.1016/j.electacta.2026.148731>
- (95) Kaur, H.; Pinto, A. J.; Reiser, J.-B.; Ling, W. L.; Pellequer, J.-L. Reconstruction of the Flexible IgM Fc Core Using Atomic Force Microscopy Topography and the AFM-Assembly Pipeline. *J. Mol. Recognit.* **2026**, 39 (4). <https://doi.org/10.1002/jmr.70041>
- (96) Weiss-Gayet, M.; Juban, G.; Le Moal, E.; Moretta, A.; Farnetani, C.; Gobet, C.; Guillemaud, J.; Le Bihan, M.-C.; Shoseyov, O.; Adrait, A.; Ternka, K.; Boespflug-Tanguy, O.; Kettwig, M.; Coute, Y.; Mounier, R.; Acquati, F.; Knight, R. D.; Chazaud, B. Restorative Macrophage-Derived RNaseT2 Stimulates Muscle Stem Cell Fusion via an SLK/N-WASP/Actin Bundling Dependent Axis. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-71990-z>
- (97) Yao, S.; Zhao, Z.; Zhao, C.; Li, J.; Wang, F.; Halila, S. Self-Regulating Hydrogel Driven by Light-Responsive Glyco-Supramolecular Reassembly. *Bioconjug. Chem.* **2026**, 37 (4), 668–674. <https://doi.org/10.1021/acs.bioconjchem.5c00626>
- (98) Wiesner, W.; Birkenstock, N.; Pellumbi, K.; Jokel, J.; Chardon-Noblat, S.; Costentin, C.; Apfel, U.-P. Silver Porphyrins for Efficient CO₂-to-CO Conversion in Zero-Gap Electrolyzers-Effects of Dispersion Solvent and Ligand Substituents. *CHEMCATCHEM* **2026**, 18 (18). <https://doi.org/10.1002/cctc.71073>
- (99) Flanders, P. L.; Gillingham, J. R.; Contreras-Martel, C.; Dessen, A.; Carlson, E. E.; Ambrose, E. A. Structural and Dynamics Analyses of β -Lactam Inhibition of Streptococcus Pneumoniae Penicillin-Binding Protein 1b (PBP1b) Guide Interrogation of Structure-Activity Relationships. *ACS Chem. Biol.* **2026**, 21 (3), 490–501. <https://doi.org/10.1021/acscchembio.5c00788>
- (100) Kavas, V.; Contreras-Martel, C.; Pajk, S.; Knez, D.; Martins, A.; Gould, T. A.; Roper, D. I.; Zdovc, I.; Dessen, A.; Hrst Rambaher, M.; Gobec, S. Structure-Activity Relationship and Crystallographic Study of New Monobactams. *J. Med. Chem.* **2026**, 69 (4), 3887–3901. <https://doi.org/10.1021/acs.jmedchem.5c02427>
- (101) Laboure, T.; Pandey, M. P.; Zarkadas, E.; Juillan-Binard, C.; Baud, D.; Neyton, J.; Cens, T.; Rousset, M.; Dehez, F.; Charnet, P.; Nury, H. Structures of the Honeybee GABAA RDL Receptor Illuminate Allosteric Modulation. *NEURON* **2026**, 114 (7), 1234–1245. <https://doi.org/10.1016/j.neuron.2025.12.013>
- (102) Borges, P. T.; Folgosa, F.; Martins, M. C.; Gotthard, G.; van der Linden, P.; Carpentier, P.; Teixeira, M.; Frazao, C.; Romao, C. V. Structures of Variants of Escherichia Coli Flavodiiron-Type Nitric Oxide Reductase Reveal Changes in the Di-Iron Site. *ACTA Crystallogr. Sect. -Struct. Biol.* **2026**, 82 (5), 457–470. <https://doi.org/10.1107/S2059798326002214>
- (103) Degroux, S.; Vives, C.; Mestdach, E.; Darnault, C.; le Roy, A.; Mas, C.; Salmon, L.; Herrmann, T.; Breyton, C. Superinfection Exclusion Strategy of Siphophage T5: Analysis of the FhuA:Llp Complex. *J. Virol.* **2026**. <https://doi.org/10.1128/jvi.00909-26>
- (104) Catacora-Grundy, A.; Juery, C.; Chevalier, F.; Yee, D. P.; Pavie, M.; LeKieffre, C.; Schieber, N. L.; Schwab, Y.; Gallet, B.; Jouneau, P. H.; Curien, G.; Decelle, J. Sweet and Fatty Symbionts:

- Photosynthetic Productivity and Carbon Storage Boosted in Microalgae within a Host. *Proc. Natl. Acad. Sci. U. S. A.* **2026**, 123 (25). <https://doi.org/10.1073/pnas.2513679123>
- (105) Roux, M.; Roux, A.; Boukeke-lespulier, T.; Riobe, F.; Chapelle, C.; Foos, N.; Dumont, E.; Girard, E.; Gillet, N.; Maury, O. Synergistic Action of Crystallophore and Imaging-Crystallophore Enhances the Production and Imaging of Protein Crystals. *Angew. Chem.-Int. Ed.* **2026**, 65 (7). <https://doi.org/10.1002/anie.202525011>
- (106) Kamashanju, K. C.; Curtil, M.; Molton, F.; Vlachopoulos, N.; Thomas, F.; Chauvin, J. Synthesis, Characterisation and Properties of a Cr(III) Diphenyl Quaterpyridine Complex towards CO₂ to CO Reduction. *DALTON Trans.* **2026**, 55 (26), 9989–9999. <https://doi.org/10.1039/d6dt00748a>
- (107) Louis, B.; Deeba, R.; Loison, J.; Pecaut, J.; Chenavier, Y.; Lalaoui, N.; Dubois, L.; Andrez, J. Synthesis, Structure, Characterisation and Preliminary CO₂ Reactivity of a Family of Heptazine-Based Re(i) Tricarbonyl Complexes. *DALTON Trans.* **2026**. <https://doi.org/10.1039/d6dt01484d>
- (108) Smits, P.; Pecaut, J.; Philouze, C.; Fortage, J.; Tomas-Mendivil, E.; Martin, D. The Crystalline Radical Anion Salt of a Free N-Heterocyclic Carbene. *Chem. Sci.* **2026**, 17 (40), 19220–19226. <https://doi.org/10.1039/d6sc05617b>
- (109) Geshkovski, V.; Engelhorn, J.; Izquierdo, J.-B.; Laroussi, H.; Thouly, C.; Turchi, L.; Wouters, M.; Le Masson, M.; Thevenon, E.; Petitalot, A.; Simon, L.; Verdier, M.; Desset, S.; Michl-Holzinger, P.; Bruckmann, A.; Parrinello, H.; Grasser, K. D.; Probst, A. V.; Margueron, R.; Vachon, G.; Kadlec, J.; Carles, C. C. The Dual trxG/PcG Protein ULTRAPETALA1 Modulates H3K27me₃ and Directly Enhances POLYCOMB REPRESSIVE COMPLEX 2 Activity for Fine-Tuned Reproductive Transitions. *Nat. PLANTS* **2026**, 12 (8). <https://doi.org/10.1038/s41477-026-02363-z>
- (110) David, P.; Michaud, M.; Moyet, L.; Pullara, S.; Lacombe, B.; Zhu, J.; Gautier, A.; Desnos, T.; Bertrand, E.; Rolland, N.; Nussaume, L. The Fluorescence-Activating and Absorption-Shifting Tag (FAST), a Versatile Protein Marker for Live Plant Cell Imaging. *PLANT J.* **2026**, 126 (5). <https://doi.org/10.1111/tpj.70966>
- (111) Bringer, M.-A.; Manceau, S.; Al Azzaz, J.; Buteau, B.; Proukhnitzky, L.; Aumeunier, A.; Bermudez-Humaran, L. G.; Chain, F.; Daniel, C.; Jacquin, E.; Mlamla, Z.; De Barros, J.-P. P.; Ducassou, J. N.; Coute, Y.; Faure, G.; Acar, N.; Rieu, A.; Lapaquette, P. The Food Grade Bacterium *Lactobacillus Helveticus* VEL12193 Promotes Autophagy by Releasing Membrane Vesicles. *CELL Commun. Signal.* **2026**, 24 (1). <https://doi.org/10.1186/s12964-025-02616-y>
- (112) Roudaire, T.; Villette, J.; Marzari, T.; Brule, D.; Pradeau, S.; Fort, S.; Landry, D.; Lefebvre, B.; Heloir, M.-C.; Poinssot, B. The Grapevine LysM Receptor Kinase VvLYK4-2 Is a Key Player in Chitosan-Triggered Immune Responses. *Hortic. Res.* **2026**, 13 (7). <https://doi.org/10.1093/hr/uhag097>
- (113) Seres, Y.; Serbutoviez-Verville, C.; Marechal, E.; Amato, A. The Life Cycle of Fatty Acids in Oleaginous Stramenopiles: From Synthesis to Maturation and Beyond. *BMC PLANT Biol.* **2026**, 26 (1). <https://doi.org/10.1186/s12870-026-08803-4>
- (114) Galien, A.; Hutin, S.; Le Hir, S.; Paul, M.; Albanese, P.; Kieffer-Jaquinod, S.; Guillotin, A.; Iwabuchi, N.; Maejima, K.; Nanao, M. H.; Tully, M. D.; Hugouvieux, V.; Zubieta, C. The Phytoplasma Effector, Phyllogen, Structurally Mimics Host Plant MADS Transcription Factors. *J. Biol. Chem.* **2026**, 302 (10). <https://doi.org/10.1016/j.jbc.2026.113449>
- (115) Perrier, M.; Benson, J. C.; Fauvarque, M.-O.; Trebak, M.; Bouron, A. The Ubiquitin-Activating Enzyme Inhibitor TAK-243 Activates Store-Operated Ca²⁺-channels Independently of Endoplasmic Reticulum Ca²⁺-stores and Enhances Mitochondrial Ca²⁺-buffering Capacity in DU-145 Human Prostate Cancer Cells. *Biochim. Biophys. ACTA-Mol. CELL Res.* **2026**, 1873 (7). <https://doi.org/10.1016/j.bbamcr.2026.120202>
- (116) Jmai, M.; Edziri, H.; Dridi, A.; Melliti, M.; Py, S.; Besbes, R.; M'Rabet, H. Thioether-Functionalized Isoxazolidine/Isoxazoline Scaffolds: Rapid Synthesis and In Vitro/In Silico Evaluation of Their Antibacterial Activity. *J. Mol. Struct.* **2026**, 1367. <https://doi.org/10.1016/j.molstruc.2026.146212>
- (117) Haudecoeur, R. Thioureas, Thiosemicarbazones, Hydroxamic Acids and Related Compounds as Copper-Chelating Tyrosinase Inhibitors. *Eur. J. Med. Chem.* **2026**, 315. <https://doi.org/10.1016/j.ejmech.2026.119000>
- (118) Batchu, K. C.; Tully, M. D.; Martel, A. Toward Nanodisc Tailoring for SANS Study of Membrane Proteins. *Bioeng.-BASEL* **2026**, 13 (1). <https://doi.org/10.3390/bioengineering13010087>
- (119) Nasrallah, A.; Rezvani, H.-R.; Belmudes, L.; Bourgoin-Voillard, S.; Kobaisi, F.; Fayyad-Kazan, M.; Seve, M.; Coute, Y.; Sulpice, E.; Rachidi, W. Type I Interferon Signaling Defines a Novel Disease Signature in Xeroderma Pigmentosum C Human Keratinocytes. *Sci. Rep.* **2026**, 16 (1). <https://doi.org/10.1038/s41598-026-37662-0>

- (120) Beaumet, M.; Lazinski, L. M.; Roulier, B.; Royal, G.; Maresca, M.; Haudecoeur, R. Tyrosinase Inhibition by Hemiindigoid-Based Compounds with a Copper-Interacting Hydroxamic Acid Head. *Eur. J. Med. Chem. Rep.* **2026**, 17. <https://doi.org/10.1016/j.ejmcr.2026.100334>
- (121) Kazemzadeh, K.; Faivre, B.; Chobert, S.-C.; Rey, M.; Abby, S. S.; Michaud, J.; Dinh, T.-A.; Chilin, A.; Lerouxel, O.; Fontecave, M.; Pierrel, F.; Lombard, M.; Pelosi, L. UbiB Proteins Mediate an ATP-Dependent Decarboxylation Step in Bacterial Ubiquinone Biosynthesis. *FEBS J.* **2026**. <https://doi.org/10.1111/febs.70749>
- (122) Katipamula, S.; Wagner, H.; Kuin, S.; Reuillard, B.; Costentin, C.; Artero, V. Unified Mechanistic Insights into Hydrogen Evolution and Oxidation from Homogeneous to Heterogeneous Molecular Electrocatalysis. *ACS Catal.* **2026**, 16 (16), 16234–16243. <https://doi.org/10.1021/acscatal.6c04331>
- (123) Cesana, B.; Nemoz-Billet, L.; Azemard, V.; Pillet, C.; Guyon, L.; Bigot, E.; Chaumontel, N.; Descotes, J. L.; Osmani, N.; Goetz, J. G.; Cochet, C.; Filhol, O. Using 3D Invasion Properties of RCC Cell Lines In Vitro to Predict Their Metastatic Potential In Vivo. *CELL DEATH Discov.* **2026**, 12 (1). <https://doi.org/10.1038/s41420-026-02966-7>
- (124) Singh, D.; John, T. S.; Catalano, V. J.; Rheingold, A. L.; Garcia-Serres, R.; Murray, L. J. Valence-Localized [Fe₂S₂]⁺1 Cluster Supported by a Dinucleating Cyclophane. *J. Organomet. Chem.* **2026**, 1049. <https://doi.org/10.1016/j.jorganchem.2026.124074>
- (125) Pradeep, V.; Mimi, A.; Descoubes, M.; Valenzuela, E. A.; Lee, S.; Milet, A.; Ragains, J. R. Visible-Light-Promoted O-Glycosylation Mediated by Halogen Bonding of Selenoglycosides to the Diphenyliodonium Ion. *Org. Lett.* **2026**, 28 (39), 12490–12495. <https://doi.org/10.1021/acs.orglett.6c03759>
- (126) Fu, Y.; Yao, Y.; Paul, S.; Mochizuki, K.; De Paepe, G. Water-Generated Dangling Linkers in a Metal-Organic Framework. *Nat. Commun.* **2026**, 17 (1). <https://doi.org/10.1038/s41467-026-70247-z>