

126 peer-reviewed research articles mentioning ANR-17-EURE-0003 and GRAL and/or ANR-10-LABX-49-01 published in 2021, listed by alphabetical order:

(1)

Albert, L.; Nagpal, J.; Steinchen, W.; Zhang, L.; Werel, L.; Djokovic, N.; Ruzic, D.; Hoffarth, M.; Xu, J.; Kaspareit, J.; Abendroth, F.; Royant, A.; Bange, G.; Nikolic, K.; Ruy, S.; Dou, Y.; Essen, L.-O.; Vázquez, O. Bistable Photoswitch Allows in Vivo Control of Hematopoiesis. *ACS Central Science* **2021**.

(2)

Altincekic, N.; Korn, S. M.; Qureshi, N. S.; Dujardin, M.; Ninot-Pedrosa, M.; Abele, R.; Abi Saad, M. J.; Alfano, C.; Almeida, F. C. L.; Alshamleh, I.; de Amorim, G. C.; Anderson, T. K.; Anobom, C. D.; Anorma, C.; Bains, J. K.; Bax, A.; Blackledge, M.; Blechar, J.; Böckmann, A.; Brigandat, L.; Bula, A.; Bütikofer, M.; Camacho-Zarco, A. R.; Carlomagno, T.; Caruso, I. P.; Ceylan, B.; Chaikuad, A.; Chu, F.; Cole, L.; Crosby, M. G.; de Jesus, V.; Dhamotharan, K.; Felli, I. C.; Ferner, J.; Fleischmann, Y.; Fogeron, M.-L.; Fourkiotis, N. K.; Fuks, C.; Fürtig, B.; Gallo, A.; Gande, S. L.; Gerez, J. A.; Ghosh, D.; Gomes-Neto, F.; Gorbatyuk, O.; Guseva, S.; Hacker, C.; Häfner, S.; Hao, B.; Hargittay, B.; Henzler-Wildman, K.; Hoch, J. C.; Hohmann, K. F.; Hutchison, M. T.; Jaudzems, K.; Jović, K.; Kaderli, J.; Kalniņš, G.; Kaņepe, I.; Kirchdoerfer, R. N.; Kirkpatrick, J.; Knapp, S.; Krishnathas, R.; Kutz, F.; Zur Lage, S.; Lambertz, R.; Lang, A.; Laurents, D.; Lecoq, L.; Linhard, V.; Löhr, F.; Malki, A.; Bessa, L. M.; Martin, R. W.; Matzel, T.; Maurin, D.; McNutt, S. W.; Mebus-Antunes, N. C.; Meier, B. H.; Meiser, N.; Mompeán, M.; Monaca, E.; Montserret, R.; Mariño Perez, L.; Moser, C.; Muhle-Goll, C.; Neves-Martins, T. C.; Ni, X.; Norton-Baker, B.; Pierattelli, R.; Pontoriero, L.; Pustovalova, Y.; Ohlenschläger, O.; Orts, J.; Da Poian, A. T.; Pyper, D. J.; Richter, C.; Riek, R.; Rienstra, C. M.; Robertson, A.; Pinheiro, A. S.; Sabbatella, R.; Salvi, N.; Saxena, K.; Schulte, L.; Schiavina, M.; Schwalbe, H.; Silber, M.; Almeida, M. da S.; Sprague-Piercy, M. A.; Spyroulias, G. A.; Sreeramulu, S.; Tants, J.-N.; Tārs, K.; Torres, F.; Töws, S.; Treviño, M. Á.; Trucks, S.; Tsika, A. C.; Varga, K.; Wang, Y.; Weber, M. E.; Weigand, J. E.; Wiedemann, C.; Wimer-Bartoschek, J.; Wirtz Martin, M. A.; Zehnder, J.; Hengesbach, M.; Schlundt, A. Large-Scale Recombinant Production of the SARS-CoV-2 Proteome for High-Throughput and Structural Biology Applications. *Front Mol Biosci* **2021**, *8*, 653148. <https://doi.org/10.3389/fmolb.2021.653148>.

(3)

Alves, I.; Santos-Pereira, B.; Dalebout, H.; Santos, S.; Vicente, M. M.; Campar, A.; Thepaut, M.; Fieschi, F.; Strahl, S.; Boyaval, F.; Vizcaíno, R.; Silva, R.; Holst-Bernal, S.; Vasconcelos, C.; Santos, L.; Wuhler, M.; Marinho, A.; Heijs, B.; Pinho, S. S. Protein Mannosylation as a Diagnostic and Prognostic Biomarker of Lupus Nephritis: An Unusual Glycan Neoepitope in Systemic Lupus Erythematosus. *Arthritis Rheumatol* **2021**, *73* (11), 2069–2077. <https://doi.org/10.1002/art.41768>.

(4)

Azpeitia, E.; Tichtinsky, G.; Le Masson, M.; Serrano-Mislata, A.; Lucas, J.; Gregis, V.; Gimenez, C.; Prunet, N.; Farcot, E.; Kater, M. M.; Bradley, D.; Madueño, F.; Godin, C.; Parcy, F. Cauliflower Fractal Forms Arise from Perturbations of Floral Gene Networks. *Science* **2021**, *373* (6551), 192–197. <https://doi.org/10.1126/science.abg5999>.

(5)

Baeta, T.; Giandoreggio-Barranco, K.; Ayala, I.; Moura, E. C.; Sperandeo, P.; Polissi, A.; Simorre, J.-P.; Laguri, C. The Lipopolysaccharide-Transporter Complex LptB2FG Also Displays Adenylate Kinase Activity in Vitro Dependent on the Binding Partners LptC/LptA. *Journal of Biological Chemistry* **2021**, *297* (6).

(6)

Bally, I.; Ancelet, S.; Reiser, J.-B.; Rossi, V.; Gaboriaud, C.; Thielens, N. M. Functional Recombinant Human Complement C1q with Different Affinity Tags. *Journal of Immunological Methods* **2021**, *492*, 113001.

(7)

Basbous, H.; Volbeda, A.; Amara, P.; Rohac, R.; Martin, L.; Ollagnier de Choudens, S.; Fontecilla-Camps, J. C. Transient Formation of a Second Active Site Cavity during Quinolinic Acid Synthesis by NadA. *ACS Chemical Biology* **2021**, *16* (11), 2423–2433.

(8)

Bernaodat, F.; Gustems, M.; Günther, J.; Oliva, M. F.; Buschle, A.; Göbel, C.; Pagniez, P.; Lupo, J.; Signor, L.; Müller, C. W.; Morand, P.; Sattler, M.; Hammerschmidt, W.; Petosa, C. Structural Basis of DNA Methylation-Dependent Site Selectivity of the Epstein-Barr Virus Lytic Switch Protein ZEBRA/Zta/BZLF1. *Nucleic Acids Res* **2021**. <https://doi.org/10.1093/nar/gkab1183>.

(9)

Bersch, B.; Tarbouriech, N.; Burmeister, W. P.; Iseni, F. Solution Structure of the C-Terminal Domain of A20, the Missing Brick for the Characterization of the Interface between Vaccinia Virus DNA Polymerase and Its Processivity Factor. *Journal of Molecular Biology* **2021**, *433* (13), 167009.

(10)

Billey, E.; Magneschi, L.; Leterme, S.; Bedhomme, M.; Andres-Robin, A.; Poulet, L.; Michaud, M.; Finazzi, G.; Dumas, R.; Crouzy, S.; Laueffer, F.; Fourage, L.; Rébeillé, F.; Amato, A.; Collin, S.; Jouhet, J.; Maréchal, E. Characterization of the Bubblegum Acyl-CoA Synthetase of *Microchloropsis Gaditana*. *Plant Physiol* **2021**, *185* (3), 815–835. <https://doi.org/10.1093/plphys/kiaa110>.

(11)

Blanquart, S.; Groussin, M.; Le Roy, A.; Szöllosi, G. J.; Girard, E.; Franzetti, B.; Gouy, M.; Madern, D. Resurrection of Ancestral Malate Dehydrogenases Reveals the Evolutionary History of Halobacterial Proteins: Deciphering Gene Trajectories and Changes in Biochemical Properties. *Molecular Biology and Evolution* **2021**.

(12)

Blum, T. B.; Housset, D.; Clabbers, M. T.; van Genderen, E.; Bacia-Verloop, M.; Zander, U.; McCarthy, A. A.; Schoehn, G.; Ling, W. L.; Abrahams, J. P. Statistically Correcting Dynamical Electron Scattering Improves the Refinement of Protein Nanocrystals, Including Charge Refinement of Coordinated Metals. *Acta Crystallographica Section D: Structural Biology* **2021**, *77* (1).

(13)

Bo, D. D.; Magneschi, L.; Bedhomme, M.; Billey, E.; Deragon, E.; Storti, M.; Menneteau, M.; Richard, C.; Rak, C.; Lapeyre, M.; Lembrouk, M.; Conte, M.; Gros, V.; Tourcier, G.; Giustini, C.; Falconet, D.; Curien, G.; Allorent, G.; Petroutsos, D.; Laeuffer, F.; Fourage, L.; Jouhet, J.; Maréchal, E.; Finazzi, G.; Collin, S. Consequences of Mixotrophy on Cell Energetic Metabolism in *Microchloropsis Gaditana* Revealed by Genetic Engineering and Metabolic Approaches. *Front Plant Sci* **2021**, *12*, 628684. <https://doi.org/10.3389/fpls.2021.628684>.

(14)

Borges, H.; Hesse, A.-M.; Kraut, A.; Couté, Y.; Brun, V.; Burger, T. Well Plate Maker: A User-Friendly Randomized Block Design Application to Limit Batch Effects in Large-scale Biomedical Studies. *Bioinformatics* **2021**.

(15)

Bou-Nader, C.; Stull, F. W.; Pecqueur, L.; Simon, P.; Guérouneau, V.; Royant, A.; Fontecave, M.; Lombard, M.; Palfe, B. A.; Hamdane, D. An Enzymatic Activation of Formaldehyde for Nucleotide Methylation. *Nature Communications* **2021**, *12* (1), 1–8.

(16)

Bouroumeau, A.; Bussot, L.; Hamaidia, S.; García-Sandoval, A.; Bergan-Dahl, A.; Betton-Fraisse, P.; Duley, S.; Fournier, C.; Aucagne, R.; Adrait, A.; Couté, Y.; McLeer, A.; Col, E.; David-Boudet, L.; Raskovalova, T.; Jacob, M.-C.; Vettier, C.; Chevalier, S.; Carras, S.; Lefebvre, C.; Algrin, C.; Gressin, R.; Callanan, M. B.; Sartelet, H.; Bonnefoix, T.; Emadali, A. CYCLON and NPM1 Cooperate within an Oncogenic Network Predictive of R-CHOP Response in DLBCL. *Cancers (Basel)* **2021**, *13* (23). <https://doi.org/10.3390/cancers13235900>.

(17)

Bouvard, C.; Tu, L.; Rossi, M.; Desroches-Castan, A.; Berrebeh, N.; Helfer, E.; Roelants, C.; Liu, H.; Ouame, M.; Chaumontel, N.; Mallet, C.; Battail, C.; Bikfalvi, A.; Humbert, M.; Savale, L.; Daubon, T.; Perret, P.; Tillet, E.; Guignabert, C.; Bailly, S. Different Cardiovascular and Pulmonary Phenotypes for Single- and Double-Knock-out Mice Deficient in BMP9 and BMP10. *Cardiovasc Res* **2021**. <https://doi.org/10.1093/cvr/cvab187>.

(18)

Burt, A.; Gaifas, L.; Dendooven, T.; Gutsche, I. A Flexible Framework for Multi-Particle Refinement in Cryo-Electron Tomography. *PLoS biology* **2021**, *19* (8), e3001319.

(19)

Caillat, C.; Guilligay, D.; Torralba, J.; Friedrich, N.; Nieva, J. L.; Trkola, A.; Chipot, C. J.; Dehez, F. L.; Weissenhorn, W. Structure of HIV-1 Gp41 with Its Membrane Anchors Targeted by Neutralizing Antibodies. *Elife* **2021**, *10*, e65005.

(20)

Calisto, B. M.; Ripoll-Rozada, J.; Dowman, L. J.; Franck, C.; Agten, S. M.; Parker, B. L.; Veloso, R. C.; Vale, N.; Gomes, P.; de Sanctis, D.; Payne, R. J.; Pereira, P. J. B. Sulfotyrosine-Mediated Recognition of Human Thrombin by a Tsetse Fly Anticoagulant Mimics Physiological Substrates. *Cell Chem Biol* **2021**, *28* (1), 26–33.e8. <https://doi.org/10.1016/j.chembiol.2020.10.002>.

(21)

Capizzi, M.; Carpentier, R.; Denarier, E.; Adrait, A.; Kassem, R.; Mapelli, M.; Couté, Y.; Humbert, S. Developmental Defects in Huntington's Disease Show That Axonal Growth and Microtubule Reorganization Require NUMA1. *Neuron* **2021**.

(22)

Castro-Mondragon, J. A.; Riudavets-Puig, R.; Rauluseviciute, I.; Berhanu Lemma, R.; Turchi, L.; Blanc-Mathieu, R.; Lucas, J.; Boddie, P.; Khan, A.; Manosalva Pérez, N.; Fomes, O.; Leung, T. Y.; Aguirre, A.; Hammal, F.; Schmelter, D.; Baranasic, D.; Ballester, B.; Sandelin, A.; Lenhard, B.; Vandepoele, K.; Wasserman, W. W.; Parcy, F.; Mathelier, A. JASPAR 2022: The 9th Release of the Open-Access Database of Transcription Factor Binding Profiles. *Nucleic Acids Res* **2021**. <https://doi.org/10.1093/nar/gkab1113>.

(23)

Caulier, B.; Stofleth, G.; Hannani, D.; Guidetti, M.; Josserand, V.; Laurin, D.; Chroboczek, J.; Mossuz, P.; Plantaz, D. Evaluation of the Human Type 3 Adenoviral Dodecahedron as a Vector to Target Acute Myeloid Leukemia. *Molecular Therapy-Methods & Clinical Development* **2021**, *20*, 181–190.

(24)

Chakroun, K.; Taouai, M.; Porkolab, V.; Luczkowiak, J.; Sommer, R.; Cheneau, C.; Mathiron, D.; Ben Maaouia, M. A.; Pilard, S.; Abidi, R.; Mullié, C.; Fieschi, F.; Cragg, P. J.; Halary, F.; Delgado, R.; Benazza, M. Low-Valent Calix[4]Arene Glycoconjugates Based on Hydroxamic Acid Bearing Linkers as Potent Inhibitors in a Model of Ebola Virus Cis-Infection and HCMV-GB-Recombinant Glycoprotein Interaction with MDDC Cells by Blocking DC-SIGN. *J Med Chem* **2021**, *64* (19), 14332–14343. <https://doi.org/10.1021/acs.jmedchem.1c00818>.

(25)

Champeau, M.; Jary, D.; Vignion-Dewalle, A.-S.; Mordon, S.; de Lassalle, E. M.; Vignoud, S.; Mortier, L. Introduction of a Model of Skin Lesions on Rats and Testing of Dissolving Microneedles Containing 5-Aminolevulinic Acid. *International Journal of Pharmaceutics* **2021**, *594*, 120115.

(26)

Christou, N. E.; Giandoreggio-Barranco, K.; Ayala, I.; Glushonkov, O.; Adam, V.; Bourgeois, D.; Brutscher, B. Disentangling Chromophore States in a Reversibly Switchable Green Fluorescent Protein: Mechanistic Insights from NMR Spectroscopy. *Journal of the American Chemical Society* **2021**.

(27)

Clément, F.; Nougarede, A.; Combe, S.; Kermarrec, F.; Dey, A. K.; Obeid, P.; Navarro, F. P.; Marche, P. N.; Sulpice, E.; Gidrol, X. Therapeutic siRNAs Targeting JAK/STAT Signalling Pathway in Inflammatory Bowel Diseases. *Journal of Crohn's and Colitis* **2021**.

(28)

Clement, K.; Reynaud, A.; Defoort, M.; Vysotskyi, B.; Fortin, T.; Lai, S.-H.; Çumaku, V.; Dominguez-Medina, S.; Hentz, S.; Masselon, C. Requirements and Attributes of Nano-Resonator Mass Spectrometry for the Analysis of Intact Viral Particles. *Analytical and Bioanalytical Chemistry* **2021**, *413* (29), 7147–7156.

(29)

Collet, C.; Lopez, J.; Battail, C.; Allias, F.; Devouassoux-Shisheboran, M.; Patrier, S.; Lemaitre, N.; Hajri, T.; Massardier, J.; You, B.; Mallet, F.; Golfier, F.; Alfaidy, N.; Bolze, P.-A. Transcriptomic Characterization of Postmolar Gestational Choriocarcinoma. *Biomedicines* **2021**, *9* (10). <https://doi.org/10.3390/biomedicines9101474>.

(30)

Curien, G.; Lyska, D.; Guglielmino, E.; Westhoff, P.; Janetzko, J.; Tardif, M.; Hallopeau, C.; Brugière, S.; Dal Bo, D.; Decelle, J.; Gallet, B.; Falconet, D.; Carone, M.; Remacle, C.; Ferro, M.; Weber, A. P. M.; Finazzi, G. Mixotrophic Growth of the Extremophile *Galdieria Sulphuraria* Reveals the Flexibility of Its Carbon Assimilation Metabolism. *New Phytol* **2021**, *231* (1), 326–338. <https://doi.org/10.1111/nph.17359>.

(31)

da Silveira Falavigna, V.; Severing, E.; Lai, X.; Estevan, J.; Farrera, I.; Hugouvieux, V.; Revers, L. F.; Zubieta, C.; Coupland, G.; Costes, E.; Andrés, F. Unraveling the Role of MADS Transcription Factor Complexes in Apple Tree Dormancy. *New Phytol* **2021**, *232* (5), 2071–2088. <https://doi.org/10.1111/nph.17710>.

(32)

Dalzon, B.; Devcic, J.; Bons, J.; Torres, A.; Diemer, H.; Ravanel, S.; Collin-Faure, V.; Cianféroni, S.; Carapito, C.; Rabilloud, T. A Proteomic View of Cellular Responses of Macrophages to Copper When Added as Ion or as Copper-Polyacrylate Complex. *Journal of Proteomics* **2021**, *239*, 104178.

(33)

Dalzon, B.; Torres, A.; Devcic, J.; Fenel, D.; Sergent, J.-A.; Rabilloud, T. A Low-Serum Culture System for Prolonged in Vitro Toxicology Experiments on a Macrophage System. *Frontiers in Toxicology* **2021**, *3*, 780778.

(34)

Darrouzet, E.; Rinaldi, C.; Zambelli, B.; Ciurli, S.; Cavazza, C. Revisiting the CooJ Family, a Potential Chaperone for Nickel Delivery to [NiFe]-Carbon Monoxide Dehydrogenase. *Journal of Inorganic Biochemistry* **2021**, *225*, 111588.

(35)

Deragon, E.; Schuler, M.; Aiese Cigliano, R.; Dello, Y.; Si Larbi, G.; Falconet, D.; Jouhet, J.; Maréchal, E.; Michaud, M.; Amato, A.; Rébeillé, F. An Oil Hyper-Accumulator Mutant Highlights Peroxisomal ATP Import as a Regulatory Step for Fatty Acid Metabolism in *Aurantiochytrium limacinum*. *Cells* **2021**, *10* (10). <https://doi.org/10.3390/cells10102680>.

(36)

Deruelle, V.; Bouillot, S.; Job, V.; Taillebourg, E.; Fauvarque, M.-O.; Attrée, I.; Huber, P. The Bacterial Toxin ExoU Requires a Host Trafficking Chaperone for Transportation and to Induce Necrosis. *Nature Communications* **2021**, *12* (1), 1–14.

(37)

Desroches-Castan, A.; Tillet, E.; Bouvard, C.; Bailly, S. BMP9 and BMP10: Two Close Vascular Quiescence Partners That Stand Out. *Developmental Dynamics* **2021**.

(38)

Di Maio, A.; Cioce, A.; Achilli, S.; Thépaut, M.; Vivès, C.; Fieschi, F.; Rojo, J.; Reichardt, N.-C. Controlled Density Glycodendron Microarrays for Studying Carbohydrate–Lectin Interactions. *Organic & Biomolecular Chemistry* **2021**, *19* (34), 7357–7362.

(39)

Diaz-Salmeron, R.; Michel, J.-P.; Hadji, H.; Gout, E.; Vivès, R. R.; Ponchel, G.; Bouchemal, K. Role of the Interactions with CD44 and Supported Bilayer Membranes in the Cellular Uptake of Soft Multivalent Hyaluronan Nanoparticles. *Colloids and Surfaces B: Biointerfaces* **2021**, 111916.

(40)

Duraffourg, N.; Leprince, M.; Crouzy, S.; Hamelin, O.; Usson, Y.; Signor, L.; Cavazza, C.; Forge, V.; Albertin, L. Hybrid Amyloid-Based Redox Hydrogel for Bioelectrocatalytic H₂ Oxidation. *Angewandte Chemie* **2021**.

(41)

Dussert, F.; Wegner, K. D.; Moriscot, C.; Gallet, B.; Jouneau, P.-H.; Reiss, P.; Carriere, M. Evaluation of the Dermal Toxicity of InZnP Quantum Dots Before and After Accelerated Weathering: Toward a Safer-By-Design Strategy. *Frontiers in Toxicology* **2021**, *3*, 6.

(42)

Effantin, G.; Fujiwara, A.; Kawasaki, T.; Yamada, T.; Schoehn, G. High Resolution Structure of the Mature Capsid of *Ralstonia solanacearum* Bacteriophage Φ RS1 by Cryo-Electron Microscopy. *International Journal of Molecular Sciences* **2021**, *22* (20), 11053.

(43)

Fal, K.; Tomkova, D.; Vachon, G.; Chaboute, M.-E.; Berr, A.; Carles, C. C. Chromatin Manipulation and Editing: Challenges, New Technologies and Their Use in Plants. *International Journal of Molecular Sciences* **2021**, *22* (2), 512.

(44)

Faouzi, A.; Arnaud, A.; Bancet, A.; Barette, C.; Preto, J.; Do, C. V.; Jordheim, L. P.; Bousfiha, Z.; Nguyen, T. T. B.; Verrière, M.; Farce, A.; Fauvarque, M.-O.; Barret, R.; Lomberget, T. Combretastatin A-4 Sulfur-Containing Heterocyclic Derivatives: Synthesis, Antiproliferative Activities and Molecular Docking Studies. *Eur J Med Chem* **2021**, *215*, 113275. <https://doi.org/10.1016/j.ejmech.2021.113275>.

(45)

Favier, A.; Gans, P.; Erba, E. B.; Signor, L.; Muthukumar, S. S.; Pfannschmidt, T.; Blanvillain, R.; Cobessi, D. The Plastid-Encoded RNA Polymerase-Associated Protein PAP9 Is a Superoxide Dismutase with Unusual Structural Features. *Frontiers in Plant Science* **2021**, *12*.

(46)

Felix, J.; Siebert, C.; Ducassou, J. N.; Nigou, J.; Garcia, P. S.; Fraudeau, A.; Huard, K.; Mas, C.; Brochier-Armanet, C.; Couté, Y.; Gutsche, I.; Renesto, P. Structural and Functional Analysis of the Francisella Lysine Decarboxylase as a Key Actor in Oxidative Stress Resistance. *Sci Rep* **2021**, *11* (1), 972. <https://doi.org/10.1038/s41598-020-79611-5>.

(47)

Fouët, G.; Bally, I.; Chouquet, A.; Reiser, J.-B.; Thielens, N. M.; Gaboriaud, C.; Rossi, V. Molecular Basis of Complement C1q Collagen-Like Region Interaction with the Immunoglobulin-Like Receptor LAIR-1. *International journal of molecular sciences* **2021**, *22* (10), 5125.

(48)

García-Fernández, M. D.; Chatelain, F. C.; Nury, H.; Moroni, A.; Moreau, C. J. Distinct Classes of Potassium Channels Fused to GPCRs as Electrical Signaling Biosensors. *Cell Reports Methods* **2021**, *1* (8), 100119.

(49)

Garcia-Saez, I.; Skoufias, D. A. Eg5 Targeting Agents: From New Anti-Mitotic Based Inhibitor Discovery to Cancer Therapy and Resistance. *Biochemical Pharmacology* **2021**, *184*, 114364.

(50)

Gauthier, L.; Charbonnier, P.; Chevallet, M.; Delangle, P.; Texier, I.; Gateau, C.; Deniaud, A. Development, Formulation, and Cellular Mechanism of a Lipophilic Copper Chelator for the Treatment of Wilson's Disease. *International Journal of Pharmaceutics* **2021**, *609*, 121193.

(51)

Gauthier, L.; Chevallet, M.; Bulteau, F.; Thépaut, M.; Delangle, P.; Fieschi, F.; Vivès, C.; Texier, I.; Deniaud, A.; Gateau, C. Lectin Recognition and Hepatocyte Endocytosis of GalNAc-Decorated Nanostructured Lipid Carriers. *Journal of Drug Targeting* **2021**, *29* (1), 99–107.

(52)

Genua, M.; Garçon, L.-A.; Sergeeva, Y. N.; Saesen, E.; Musnier, B.; Buhot, A.; Billon, M.; Gout, E.; Sadir, R.; Lortat-Jacob, H.; Le Narvor, C.; Bonnaffé, D.; Livache, T.; Hou, Y. Discrimination of Deletion to Point Cytokine

Mutants Based on an Array of Cross-Reactive Receptors Mimicking Protein Recognition by Heparan Sulfate. *Anal Bioanal Chem* **2021**. <https://doi.org/10.1007/s00216-021-03516-z>.

(53)

Giachin, G.; Jessop, M.; Bouverot, R.; Acajjaoui, S.; Saïdi, M.; Chretien, A.; Bacia-Verloop, M.; Signor, L.; Mas, P. J.; Favier, A.; Borel Meneroud, E.; Hons, M.; Hart, D. J.; Kandiah, E.; Boeri Erba, E.; Buisson, A.; Leonard, G.; Gutsche, I.; Soler-Lopez, M. Assembly of The Mitochondrial Complex I Assembly Complex Suggests a Regulatory Role for DeFlavination. *Angew Chem Int Ed Engl* **2021**, *60* (9), 4689–4697. <https://doi.org/10.1002/anie.202011548>.

(54)

Giacosa, S.; Pillet, C.; Séraudie, I.; Guyon, L.; Wallez, Y.; Roelants, C.; Battail, C.; Evrard, B.; Chalmel, F.; Barette, C.; Soleilhac, E.; Fauvarque, M.-O.; Franquet, Q.; Sarrazin, C.; Peilleron, N.; Fiard, G.; Long, J.-A.; Descotes, J.-L.; Cochet, C.; Filhol, O. Cooperative Blockade of CK2 and ATM Kinases Drives Apoptosis in VHL-Deficient Renal Carcinoma Cells through ROS Overproduction. *Cancers (Basel)* **2021**, *13* (3). <https://doi.org/10.3390/cancers13030576>.

(55)

Guéguen, N.; Le Moigne, D.; Amato, A.; Salvaing, J.; Marechal, E. Lipid Droplets in Unicellular Photosynthetic Stramenopiles. *Frontiers in Plant Science* **2021**, *12*, 588.

(56)

Guéguen, N.; Maréchal, E. Origin of Cyanobacterial Thylakoids via a Non-Vesicular Glycolipid Phase Transition and Their Impact on the Great Oxygenation Event. *Journal of Experimental Botany* **2021**.

(57)

Guseva, S.; Perez, L. M.; Camacho-Zarco, A.; Bessa, L. M.; Salvi, N.; Malki, A.; Maurin, D.; Blackledge, M. 1 H, 13 C and 15 N Backbone Chemical Shift Assignments of the n-Terminal and Central Intrinsically Disordered Domains of SARS-CoV-2 Nucleoprotein. *Biomolecular NMR assignments* **2021**, 1–6.

(58)

Häge, S.; Büscher, N.; Pakulska, V.; Hahn, F.; Adrait, A.; Krauter, S.; Borst, E. M.; Schlötzer-Schrehardt, U.; Couté, Y.; Plachter, B.; Marschall, M. The Complex Regulatory Role of Cytomegalovirus Nuclear Egress Protein PUL50 in the Production of Infectious Virus. *Cells* **2021**, *10* (11). <https://doi.org/10.3390/cells10113119>.

(59)

Henot, F.; Kerfah, R.; Törner, R.; Macek, P.; Crublet, E.; Gans, P.; Frech, M.; Hamelin, O.; Boisbouvier, J. Optimized Precursor to Simplify Assignment Transfer between Backbone Resonances and Stereospecifically Labelled Valine and Leucine Methyl Groups: Application to Human Hsp90 N-Terminal Domain. *Journal of Biomolecular NMR* **2021**, 1–12.

(60)

Hseiky, A.; Crespo, M.; Kieffer-Jaquinod, S.; Fenaille, F.; Pflieger, D. Small Mass but Strong Information: Diagnostic Ions Provide Crucial Clues to Correctly Identify Histone Lysine Modifications. *Proteomes* **2021**, *9* (2), 18.

(61)

Imbert, L.; Lenoir-Capello, R.; Crublet, E.; Vallet, A.; Awad, R.; Ayala, I.; Juillan-Binard, C.; Mayerhofer, H.; Kerfah, R.; Gans, P.; Miclet, E.; Boisbouvier, J. In Vitro Production of Perdeuterated Proteins in H₂O for

Biomolecular NMR Studies. *Methods Mol Biol* **2021**, *2199*, 127–149. https://doi.org/10.1007/978-1-0716-0892-0_8.

(62)

Iorio, A.; Roche, J.; Engilberge, S.; Coquelle, N.; Girard, E.; Sterpone, F.; Madern, D. Biochemical, Structural and Dynamical Studies Reveal Strong Differences in the Thermal-Dependent Allosteric Behavior of Two Extremophilic Lactate Dehydrogenases. *Journal of Structural Biology* **2021**, *213* (3), 107769.

(63)

Jalabert, A.; Reininger, L.; Berger, E.; Coute, Y.; Meugnier, E.; Forterre, A.; Errazuriz-Cerda, E.; Geloën, A.; Aouadi, M.; Bouzakri, K.; Rieusset, J.; Rome, S. Profiling of Ob/Ob Mice Skeletal Muscle Exosome-like Vesicles Demonstrates Combined Action of miRNAs, Proteins and Lipids to Modulate Lipid Homeostasis in Recipient Cells. *Sci Rep* **2021**, *11*(1), 21626. <https://doi.org/10.1038/s41598-021-00983-3>.

(64)

Jamgotchian, L.; Vaillant, S.; Selingue, E.; Doerflinger, A.; Belime, A.; Vandamme, M.; Pinna, G.; Ling, W. L.; Gravel, E.; Mériaux, S.; Doris, E. Tumor-Targeted Superfluorinated Micellar Probe for Sensitive in Vivo (19)F-MRI. *Nanoscale* **2021**, *13* (4), 2373–2377. <https://doi.org/10.1039/d0nr08200g>.

(65)

Jessop, M.; Liesche, C.; Felix, J.; Desfosses, A.; Baulard, M.; Adam, V.; Fraudeau, A.; Huard, K.; Effantin, G.; Kleman, J.-P.; Bacia-Verloop, M.; Bourgeois, D.; Gutsche, I. Supramolecular Assembly of the Escherichia Coli Ldcl upon Acid Stress. *Proc Natl Acad Sci U S A* **2021**, *118* (2). <https://doi.org/10.1073/pnas.2014383118>.

(66)

Kehlenbeck, D.-M.; Traore, D. A.; Josts, I.; Sander, S.; Moulin, M.; Haertlein, M.; Prevost, S.; Forsyth, T. V.; Tidow, H. Cryo-EM Structure of MsbA in Saposin-Lipid Nanoparticles (Salipro) Provides Insights into Nucleotide Coordination. *The FEBS Journal* **2021**.

(67)

Kerever, A.; Nagahara, F.; Keino-Masu, K.; Masu, M.; van Kuppevelt, T. H.; Vivès, R. R.; Arikawa-Hirasawa, E. Regulation of Fractone Heparan Sulfate Composition in Young and Aged Subventricular Zone Neurogenic Niches. *Glycobiology* **2021**, *31* (11), 1531–1542.

(68)

Kerjouan, A.; Boyault, C.; Oddou, C.; Hiriart-Bryant, E.; Grichine, A.; Kraut, A.; Pezet, M.; Balland, M.; Faurobert, E.; Bonnet, I.; Coute, Y.; Fourcade, B.; Albiges-Rizo, C.; Destaing, O. Control of SRC Molecular Dynamics Encodes Distinct Cytoskeletal Responses by Specifying Signaling Pathway Usage. *J Cell Sci* **2021**, *134* (2). <https://doi.org/10.1242/jcs.254599>.

(69)

Khodr, V.; Machillot, P.; Migliorini, E.; Reiser, J.-B.; Picart, C. High-Throughput Measurements of Bone Morphogenetic Protein/Bone Morphogenetic Protein Receptor Interactions Using Biolayer Interferometry. *Biointerphases* **2021**, *16* (3), 031001.

(70)

Kollimada, S.; Senger, F.; Vignaud, T.; Théry, M.; Blanchoin, L.; Kurzawa, L. The Biochemical Composition of the Actomyosin Network Sets the Magnitude of Cellular Traction Forces. *Molecular Biology of the Cell* **2021**, *32* (18), 1737–1748.

(71)

Kramer, M.; Rodriguez-Heredia, M.; Saccon, F.; Mosebach, L.; Twachtmann, M.; Krieger-Liszkay, A.; Duffy, C.; Knell, R. J.; Finazzi, G.; Hanke, G. T. Regulation of Photosynthetic Electron Flow on Dark to Light Transition by Ferredoxin: NADP (H) Oxidoreductase Interactions. *Elife* **2021**, *10*, e56088.

(72)

Lai, X.; Blanc-Mathieu, R.; GrandVuillemin, L.; Huang, Y.; Stigliani, A.; Lucas, J.; Thévenon, E.; Loue-Manifel, J.; Turchi, L.; Daher, H.; Brun-Hernandez, E.; Vachon, G.; Latrasse, D.; Benhamed, M.; Dumas, R.; Zubieta, C.; Parcy, F. The LEAFY Floral Regulator Displays Pioneer Transcription Factor Properties. *Mol Plant* **2021**, *14* (5), 829–837. <https://doi.org/10.1016/j.molp.2021.03.004>.

(73)

Lemel, L.; Nieścierowicz, K.; García-Fernández, M. D.; Darré, L.; Durroux, T.; Busnelli, M.; Pezet, M.; Rébeillé, F.; Jouhet, J.; Mouillac, B.; Domene, C.; Chini, B.; Cherezov, V.; Moreau, C. J. The Ligand-Bound State of a G Protein-Coupled Receptor Stabilizes the Interaction of Functional Cholesterol Molecules. *J Lipid Res* **2021**, *62*, 100059. <https://doi.org/10.1016/j.jlcr.2021.100059>.

(74)

Malki, A.; Teulon, J.-M.; Camacho-Zarco, A. R.; Chen, S. W.; Adamski, W.; Maurin, D.; Salvi, N.; Pellequer, J.-L.; Blackledge, M. Intrinsically Disordered Tardigrade Proteins Self-Assemble into Fibrous Gels in Response to Environmental Stress. *Angewandte Chemie International Edition* **2021**.

(75)

Manigrasso, J.; Marcia, M.; De Vivo, M. Computer-Aided Design of RNA-Targeted Small Molecules: A Growing Need in Drug Discovery. *Chem* **2021**.

(76)

Marcia, M.; Manigrasso, J.; De Vivo, M. Finding the Ion in the RNA-Stack: Can Computational Models Accurately Predict Key Functional Elements in Large Macromolecular Complexes? *Journal of Chemical Information and Modeling* **2021**.

(77)

Marechal, E. Carburants à Base d'algues Oléagineuses Principes, Filières, Verrous. *Techniques de l'Ingenieur* **2021**, IN186-v2.

(78)

Maréchal, E. Grand Challenges in Microalgae Domestication. *Frontiers in Plant Science* **2021**, *12*.

(79)

Martin, W. J.; Grandi, P.; Marcia, M. Screening Strategies for Identifying RNA-and Ribonucleoprotein-Targeted Compounds. *Trends in Pharmacological Sciences* **2021**, *42* (9), 758–771.

(80)

Martins, A.; Contreras-Martel, C.; Janet-Maitre, M.; Miyachiro, M. M.; Estrozi, L. F.; Trindade, D. M.; Malospirito, C. C.; Rodrigues-Costa, F.; Imbert, L.; Job, V.; Schoehn, G.; Attrée, I.; Dessen, A. Self-Association of MreC as a Regulatory Signal in Bacterial Cell Wall Elongation. *Nat Commun* **2021**, *12* (1), 2987. <https://doi.org/10.1038/s41467-021-22957-9>.

(81)

Mayeux, G.; Gayet, L.; Liguori, L.; Odier, M.; Martin, D. K.; Cortès, S.; Schaack, B.; Lenormand, J.-L. Cell-Free Expression of the Outer Membrane Protein OprF of *Pseudomonas Aeruginosa* for Vaccine Purposes. *Life science alliance* **2021**, *4* (6).

(82)

McGregor, L.; Foldes, T.; Bui, S.; Moulin, M.; Coquelle, N.; Blakeley, M. P.; Rosta, E.; Steiner, R. A. Joint Neutron/X-Ray Crystal Structure of a Mechanistically Relevant Complex of Perdeuterated Urate Oxidase and Simulations Provide Insight into the Hydration Step of Catalysis. *IUCr* **2021**, *8* (1).

(83)

Merk, V.; Decelle, J.; Chen, S.; Joester, D. Multi-Modal Correlative Chemical Imaging of Aquatic Microorganisms. *Microscopy and Microanalysis* **2021**, *27* (S1), 298-300.

(84)

Miele, A. E.; Cervoni, L.; Le Roy, A.; Cutone, A.; Musci, G.; Ebel, C.; Di Patti, M. C. B. Biophysical Characterization of the Complex between the Iron-Responsive Transcription Factor Fep1 and DNA. *European Biophysics Journal* **2021**, *50* (3), 501-512.

(85)

Moyne, O.; Castelli, F.; Bicout, D. J.; Boccard, J.; Camara, B.; Coumoyer, B.; Faudry, E.; Terrier, S.; Hannani, D.; Huot-Marchand, S.; Léger, C.; Maurin, M.; Ngo, T.-D.; Plazy, C.; Quinn, R. A.; Attree, I.; Fenaille, F.; Toussaint, B.; Le Gouëllec, A. Metabotypes of *Pseudomonas Aeruginosa* Correlate with Antibiotic Resistance, Virulence and Clinical Outcome in Cystic Fibrosis Chronic Infections. *Metabolites* **2021**, *11* (2).
<https://doi.org/10.3390/metabo11020063>.

(86)

Naudi-Fabra, S.; Tengo, M.; Jensen, M. R.; Blackledge, M.; Milles, S. Quantitative Description of Intrinsically Disordered Proteins Using Single-Molecule FRET, NMR, and SAXS. *Journal of the American Chemical Society* **2021**.

(87)

Notaro, A.; Couté, Y.; Belmudes, L.; Laugeri, M. E.; Salis, A.; Damonte, G.; Molinaro, A.; Tonetti, M. G.; Abergel, C.; De Castro, C. Expanding the Occurrence of Polysaccharides to the Viral World: The Case of Mimivirus. *Angewandte Chemie International Edition* **2021**, *60* (36), 19897-19904.

(88)

Pailleux, F.; Maes, P.; Jaquinod, M.; Barthelon, J.; Darnaud, M.; Lacoste, C.; Vandenbrouck, Y.; Gilquin, B.; Louwagie, M.; Hesse, A.-M.; Kraut, A.; Garin, J.; Leroy, V.; Zarski, J.-P.; Bruley, C.; Couté, Y.; Samuel, D.; Ichai, P.; Faivre, J.; Brun, V. Mass Spectrometry-Based Proteomics Reveal Alcohol Dehydrogenase 1B as a Blood Biomarker Candidate to Monitor Acetaminophen-Induced Liver Injury. *Int J Mol Sci* **2021**, *22* (20).
<https://doi.org/10.3390/ijms222011071>.

(89)

Permiakova, O.; Burger, T. Sketched Stochastic Dictionary Learning for Large-Scale Data and Application to High-Throughput Mass Spectrometry. *Statistical Analysis and Data Mining: The ASA Data Science Journal* **2021**.

(90)

Permiakova, O.; Guibert, R.; Kraut, A.; Fortin, T.; Hesse, A.-M.; Burger, T. CHICKN: Extraction of Peptide Chromatographic Elution Profiles from Large Scale Mass Spectrometry Data by Means of Wasserstein Compressive Hierarchical Cluster Analysis. *BMC bioinformatics* **2021**, *22* (1), 1–30.

(91)

Petroutsos, D.; Wobbe, L.; Jin, E.; Ballottari, M. Microalgae Biology and Biotechnology. *Frontiers in plant science* **2021**, *11*, 2273.

(92)

Pounot, K.; Grime, G. W.; Longo, A.; Zamponi, M.; Noferini, D.; Cristiglio, V.; Seydel, T.; Garman, E. F.; Weik, M.; Foderà, V.; Schirò, G. Zinc Determines Dynamical Properties and Aggregation Kinetics of Human Insulin. *Biophys J* **2021**, *120* (5), 886–898. <https://doi.org/10.1016/j.bpj.2020.11.2280>.

(93)

Pradhan, S.; Bhujel, D.; Gurung, B.; Sharma, D.; Basel, S.; Rasaily, S.; Thapa, S.; Borthakur, S.; Ling, W. L.; Saikia, L.; others. Stable Lead-Halide Perovskite Quantum Dots as Efficient Visible Light Photocatalysts for Organic Transformations. *Nanoscale Advances* **2021**, *3* (5), 1464–1472.

(94)

Prasanna, M.; Podsiadla-Bialoskorska, M.; Mielecki, D.; Ruffier, N.; Fateh, A.; Lambert, A.; Fanuel, M.; Camberlein, E.; Szolajska, E.; Grandjean, C. On the Use of Adenovirus Dodecahedron as a Carrier for Glycoconjugate Vaccines. *Glycoconjugate Journal* **2021**, 1–10.

(95)

Préchoux, A.; Simorre, J.-P.; Lortat-Jacob, H.; Laguri, C. Deciphering the Structural Attributes of Protein–Heparan Sulfate Interactions Using Chemo-Enzymatic Approaches and NMR Spectroscopy. *Glycobiology* **2021**.

(96)

Raia-Barjat, T.; Sarkis, C.; Rancon, F.; Thibaudin, L.; Gris, J.-C.; Alfaidy, N.; Chauleur, C. Vitamin D Deficiency during Late Pregnancy Mediates Placenta-Associated Complications. *Scientific Reports* **2021**, *11* (1), 1–9.

(97)

Ramos, J.; Laux, V.; Haertlein, M.; Boeri Erba, E.; McAuley, K. E.; Forsyth, V. T.; Mossou, E.; Larsen, S.; Langkilde, A. E. Structural Insights into Protein Folding, Stability and Activity Using in Vivo Perdeuteration of Hen Egg-White Lysozyme. *IUCr* **2021**, *8* (3).

(98)

Reda El Sayed, S.; Cristante, J.; Guyon, L.; Denis, J.; Chabre, O.; Cherradi, N. MicroRNA Therapeutics in Cancer: Current Advances and Challenges. *Cancers* **2021**, *13* (11), 2680.

(99)

Reynaud, D.; Abi Nahed, R.; Lemaitre, N.; Bolze, P.-A.; Traboulsi, W.; Sergent, F.; Battail, C.; Filhol, O.; Sapin, V.; Boufettal, H.; Hoffmann, P.; Aboussaouira, T.; Murthi, P.; Slim, R.; Benharouga, M.; Alfaidy, N. NLRP7 Promotes Choriocarcinoma Growth and Progression through the Establishment of an Immunosuppressive Microenvironment. *Cancers (Basel)* **2021**, *13* (12). <https://doi.org/10.3390/cancers13122999>.

(100)

Reynaud, D.; Sergent, F.; Abi Nahed, R.; Traboulsi, W.; Collet, C.; Marquette, C.; Hoffmann, P.; Balboni, G.; Zhou, Q.-Y.; Murthi, P.; Benharouga, M.; Alfaidy, N. Evidence-Based View of Safety and Effectiveness of Prokineticin Receptors Antagonists during Pregnancy. *Biomedicines* **2021**, *9* (3). <https://doi.org/10.3390/biomedicines9030309>.

(101)

Rodriguez-Heredia, M.; Saccon, F.; Wilson, S.; Finazzi, G.; Ruban, A. V.; Hanke, G. T. Protection of Photosystem I during Sudden Light Stress Depends on Ferredoxin: NADP (H) Reductase Abundance and Interactions. *Plant Physiology* **2021**.

(102)

Rohac, R.; Martin, L.; Liu, L.; Basu, D.; Tao, L.; Britt, R. D.; Rauchfuss, T. B.; Nicolet, Y. Crystal Structure of the [FeFe]-Hydrogenase Maturase HydE Bound to Complex-B. *Journal of the American Chemical Society* **2021**.

(103)

Ropers, D.; Couté, Y.; Faure, L.; Ferré, S.; Labourdette, D.; Shabani, A.; Trouilh, L.; Vasseur, P.; Corre, G.; Ferro, M.; Teste, M.-A.; Geiselmann, J.; de Jong, H. Multiomics Study of Bacterial Growth Arrest in a Synthetic Biology Application. *ACS Synth Biol* **2021**, *10* (11), 2910–2926. <https://doi.org/10.1021/acssynbio.1c00115>.

(104)

Salvi, N.; Bessa, L. M.; Guseva, S.; Camacho-Zarco, A.; Maurin, D.; Perez, L. M.; Malki, A.; Hengesbach, M.; Korn, S. M.; Schlundt, A.; Schwalbe, H.; Blackledge, M. (1)H, (13)C and (15)N Backbone Chemical Shift Assignments of SARS-CoV-2 Nsp3a. *Biomol NMR Assign* **2021**, *15* (1), 173–176. <https://doi.org/10.1007/s12104-020-10001-8>.

(105)

Schirò, G.; Fichou, Y.; Brogan, A. P. S.; Sessions, R.; Lohstroh, W.; Zamponi, M.; Schneider, G. J.; Gallat, F.-X.; Paciaroni, A.; Tobias, D. J.; Perriman, A.; Weik, M. Diffusivelike Motions in a Solvent-Free Protein-Polymer Hybrid. *Phys Rev Lett* **2021**, *126* (8), 088102. <https://doi.org/10.1103/PhysRevLett.126.088102>.

(106)

Schmid, F.; Ducassou, J. N.; Couté, Y.; Gescher, J. Developing Rhodobacter Sphaeroides for Cathodic Biopolymer Production. *Bioresource Technology* **2021**, 125340.

(107)

Stewart, A.; Rioux, D.; Boyer, F.; Gielly, L.; Pompanon, F.; Saillard, A.; Thuiller, W.; Valay, J.-G.; Maréchal, E.; Coissac, E. Altitudinal Zonation of Green Algae Biodiversity in the French Alps. *Frontiers in Plant Science* **2021**, *12*, 1066.

(108)

Thielens, N.; Gout, E.; Lacroix, M.; Reiser, J.-B.; Gaboriaud, C. Analysis of the Ligand Recognition Specificities of Human Ficolins Using Surface Plasmon Resonance. *Methods in Molecular Biology* **2021**, *2227*, 205–226.

(109)

Tömer, R.; Henot, F.; Awad, R.; Macek, P.; Gans, P.; Boisbouvier, J. Backbone and Methyl Resonances Assignment of the 87 KDa Prefoldin from *Pyrococcus Horikoshii*. *Biomolecular NMR Assignments* **2021**, 1–10.

(110)

Trauchessec, M.; Hesse, A. M.; Kraut, A.; Berard, Y.; Herment, L.; Fortin, T.; Bruley, C.; Ferro, M.; Manin, C. An Innovative Standard for LC-MS-Based HCP Profiling and Accurate Quantity Assessment: Application to Batch Consistency in Viral Vaccine Samples. *Proteomics* **2021**, *21*(5), 2000152.

(111)

Triclin, S.; Inoue, D.; Gaillard, J.; Htet, Z. M.; DeSantis, M. E.; Portran, D.; Derivery, E.; Aumeier, C.; Schaedel, L.; John, K.; Leterrier, C.; Reck-Peterson, S. L.; Blanchoin, L.; Théry, M. Self-Repair Protects Microtubules from Destruction by Molecular Motors. *Nat Mater* **2021**, *20*(6), 883–891. <https://doi.org/10.1038/s41563-020-00905-0>.

(112)

Trouillon, J.; Imbert, L.; Villard, A.-M.; Vernet, T.; Attrée, I.; Elsen, S. Determination of the Two-Component Systems Regulatory Network Reveals Core and Accessory Regulations across *Pseudomonas Aeruginosa* Lineages. *Nucleic acids research* **2021**, *49*(20), 11476–11490.

(113)

Trouillon, J.; Ragno, M.; Simon, V.; Attrée, I.; Elsen, S. Transcription Inhibitors with XRE DNA-Binding and Cupin Signal-Sensing Domains Drive Metabolic Diversification in *Pseudomonas*. *Msystems* **2021**, *6*(1), e00753-20.

(114)

Trouve, J.; Glushonkov, O.; Morlot, C. Metabolic Biorthogonal Labeling and DSTORM Imaging of Peptidoglycan Synthesis in *Streptococcus Pneumoniae*. *STAR Protocols* **2021**, *2*(4), 101006.

(115)

Truskina, J.; Han, J.; Chrysanthou, E.; Galvan-Ampudia, C. S.; Lainé, S.; Brunoud, G.; Macé, J.; Bellows, S.; Legrand, J.; Bågman, A.-M.; Smit, M. E.; Smetana, O.; Stigliani, A.; Porco, S.; Bennett, M. J.; Mähönen, A. P.; Parcy, F.; Farcot, E.; Roudier, F.; Brady, S. M.; Bishopp, A.; Vernoux, T. A Network of Transcriptional Repressors Modulates Auxin Responses. *Nature* **2021**, *589*(7840), 116–119. <https://doi.org/10.1038/s41586-020-2940-2>.

(116)

Tully, M.; Tarbouriech, N.; Rambo, R.; Hutin, S. Analysis of SEC-SAXS Data via EFA Deconvolution and Scatter. *Journal of visualized experiments: JoVE* **2021**, No. 167.

(117)

Uwizeye, C.; Decelle, J.; Jouneau, P.-H.; Flori, S.; Gallet, B.; Keck, J.-B.; Bo, D. D.; Moriscot, C.; Seydoux, C.; Chevalier, F.; Schieber, N. L.; Templin, R.; Allorent, G.; Courtois, F.; Curien, G.; Schwab, Y.; Schoehn, G.; Zeeman, S. C.; Falconet, D.; Finazzi, G. Morphological Bases of Phytoplankton Energy Management and Physiological Responses Unveiled by 3D Subcellular Imaging. *Nat Commun* **2021**, *12*(1), 1049. <https://doi.org/10.1038/s41467-021-21314-0>.

(118)

Uwizeye, C.; Mars Brisbin, M.; Gallet, B.; Chevalier, F.; LeKieffre, C.; Schieber, N. L.; Falconet, D.; Wangpraseurt, D.; Schertel, L.; Stryhanyuk, H.; Musat, N.; Mitarai, S.; Schwab, Y.; Finazzi, G.; Decelle, J. Cytoklepty in the Plankton: A Host Strategy to Optimize the Bioenergetic Machinery of Endosymbiotic Algae. *Proc Natl Acad Sci U S A* **2021**, *118*(27). <https://doi.org/10.1073/pnas.2025252118>.

(119)

Van Driessche, A. E.; Van Gerven, N.; Joosten, R. R.; Ling, W. L.; Bacia, M.; Sommerdijk, N.; Sleutel, M. Nucleation of Protein Mesocrystals via Oriented Attachment. *Nature Communications* **2021**, *12*(1), 1–8.

(120)

Vellino, S.; Oddou, C.; Rivier, P.; Boyault, C.; Hiriart-Bryant, E.; Kraut, A.; Martin, R.; Coute, Y.; Knölker, H.-J.; Valverde, M. A.; Albigès-Rizo, C.; Destaing, O. Cross-Talk between the Calcium Channel TRPV4 and Reactive Oxygen Species Interlocks Adhesive and Degradative Functions of Invadosomes. *J Cell Biol* **2021**, *220*(2). <https://doi.org/10.1083/jcb.201910079>.

(121)

Waldie, S.; Sebastiani, F.; Moulin, M.; Del Giudice, R.; Paracini, N.; Roosen-Runge, F.; Gerelli, Y.; Prevost, S.; Voss, J. C.; Darwish, T. A.; Yepuri, N.; Pichler, H.; Maric, S.; Forsyth, V. T.; Haertlein, M.; Cárdenas, M. ApoE and ApoE Nascent-Like HDL Particles at Model Cellular Membranes: Effect of Protein Isoform and Membrane Composition. *Front Chem* **2021**, *9*, 630152. <https://doi.org/10.3389/fchem.2021.630152>.

(122)

Wehbie, M.; Bouchemal, I.; Deletraz, A.; Pebay-Peyroula, E.; Breyton, C.; Ebel, C.; Durand, G. Glucose-Based Fluorinated Surfactants as Additives for the Crystallization of Membrane Proteins: Synthesis and Preliminary Physical-Chemical and Biochemical Characterization. *ACS omega* **2021**, *6*(38), 24397–24406.

(123)

Wehbie, M.; Onyia, K. K.; Mahler, F.; Le Roy, A.; Deletraz, A.; Bouchemal, I.; Vargas, C.; Babalola, J. O.; Breyton, C.; Ebel, C.; Keller, S.; Durand, G. Maltose-Based Fluorinated Surfactants for Membrane-Protein Extraction and Stabilization. *Langmuir* **2021**, *37*(6), 2111–2122. <https://doi.org/10.1021/acs.langmuir.0c03214>.

(124)

Weinhäupl, K.; Wang, Y.; Hessel, A.; Brennich, M.; Lindorff-Larsen, K.; Schanda, P. Architecture and Assembly Dynamics of the Essential Mitochondrial Chaperone Complex TIM9·10·12. *Structure* **2021**.

(125)

Wicker-Planquart, C.; Tacnet-Delorme, P.; Preisser, L.; Dufour, S.; Delneste, Y.; Housset, D.; Frachet, P.; Thielens, N. M. Insights into the Ligand Binding Specificity of SREC-II (Scavenger Receptor Expressed by Endothelial Cells). *FEBS Open bio* **2021**, *11*(10), 2693–2704.

(126)

Zouhir, S.; Contreras-Martel, C.; Maragno Trindade, D.; Attrée, I.; Dessen, A.; Macheboeuf, P. MagC Is a NplC/P60-like Member of the α -2-Macroglobulin Mag Complex of *Pseudomonas Aeruginosa* That Interacts with Peptidoglycan. *FEBS letters* **2021**.