

(1)  
Achilli, S.; Monteiro, J. T.; Serna, S.; Mayer-Lambertz, S.; Thepaut, M.; Le Roy, A.; Ebel, C.; Reichardt, N.-C.; Lepenies, B.; Fieschi, F.; Vives, C. TETRALEC, Artificial Tetrameric Lectins: A Tool to Screen Ligand and Pathogen Interactions. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* **2020**, *21* (15). <https://doi.org/10.3390/ijms21155290>.

(2)  
Ahmed, M. E.; Adam, S.; Saha, D.; Fize, J.; Artero, V.; Dey, A.; Duboc, C. Repurposing a Bio-Inspired NiFe Hydrogenase Model for CO<sub>2</sub> Reduction with Selective Production of Methane as the Unique C-Based Product. *ACS ENERGY LETTERS* **2020**, *5* (12), 3837–3842. <https://doi.org/10.1021/acseenergylett.0c02002>.

(3)  
Alleva, C.; Kovalev, K.; Astashkin, R.; Berndt, M., I.; Baeken, C.; Balandin, T.; Gordeliy, V.; Fahlke, C.; Machtens, J.-P. Na<sup>+</sup>-Dependent Gate Dynamics and Electrostatic Attraction Ensure Substrate Coupling in Glutamate Transporters. *SCIENCE ADVANCES* **2020**, *6* (47). <https://doi.org/10.1126/sciadv.aba9854>.

(4)  
Arragain, B.; Effantin, G.; Gerlach, P.; Reguera, J.; Schoehn, G.; Cusack, S.; Malet, H. Pre-Initiation and Elongation Structures of Full-Length La Crosse Virus Polymerase Reveal Functionally Important Conformational Changes. *NATURE COMMUNICATIONS* **2020**, *11* (1). <https://doi.org/10.1038/s41467-020-17349-4>.

(5)  
Ayala, I.; Chiari, L.; Kerfah, R.; Boisbouvier, J.; Gans, P.; Hamelin, O. Asymmetric Synthesis of Methyl Specifically Labelled L-Threonine and Application to the NMR Studies of High Molecular Weight Proteins. *CHEMISTRYSELECT* **2020**, *5* (17), 5092–5098. <https://doi.org/10.1002/slct.202000827>.

(6)  
Bacher, F.; Isaac, J. A.; Philouze, C.; Flot, D.; Thibon-Pourret, A.; Belle, C. Synthesis of Unsymmetrical 1,8-Naphthyridine-Based Ligands for the Assembly of Tri-and Tetra-Nuclear Copper(II) Complexes. *NEW JOURNAL OF CHEMISTRY* **2020**, *44* (39), 16713–16720. <https://doi.org/10.1039/d0nj02776f>.

(7)  
Bacher, F.; Isaac, J. A.; Philouze, C.; Flot, D.; Thibon-Pourret, A.; Belle, C. Synthesis of Unsymmetrical 1,8-Naphthyridine-Based Ligands for the Assembly of Tri-and Tetra-Nuclear Copper(II) Complexes. *NEW JOURNAL OF CHEMISTRY* **2020**, *44* (39), 16713–16720. <https://doi.org/10.1039/d0nj02776f>.

(8)  
Bally, I.; Dalonneau, F.; Chouquet, A.; Groebner, R.; Amberger, A.; Kapferer-Seebacher, I.; Stoiber, H.; Zschocke, J.; Thielens, N. M.; Rossi, V.; Gaboriaud, C. Two Different Missense C1S Mutations, Associated to Periodontal Ehlers-Danlos Syndrome, Lead to Identical Molecular Outcomes. *FRONTIERS IN IMMUNOLOGY* **2019**, *10*. <https://doi.org/10.3389/fimmu.2019.02962>.

(9)  
Bar, L.; Dejeu, J.; Lartia, R.; Bano, F.; Richter, R. P.; Coche-Guerente, L.; Boturyn, D. Impact of Antigen Density on Recognition by Monoclonal Antibodies. *ANALYTICAL CHEMISTRY* **2020**, *92* (7), 5396–5403. <https://doi.org/10.1021/acs.analchem.0c00092>.

(10)  
Baraket, A.; Alcaraz, J.-P.; Gondran, C.; Costa, G.; Nonglaton, G.; Gaillard, F.; Cinquin, P.; Cosnier, M.-L.; Martin, D. K. Long Duration Stabilization of Porous Silicon Membranes in Physiological Media: Application for Implantable Reactors. *MATERIALS SCIENCE &*

*ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS* **2020**, 108.

<https://doi.org/10.1016/j.msec.2019.110359>.

(11)

Barre, R.; Mouchel Dit Leguerrier, D.; Fedele, L.; Imbert, D.; Molloy, J. K.; Thomas, F. Luminescent Pro-Nitroxide Lanthanide Complexes for the Detection of Reactive Oxygen Species. *CHEMICAL COMMUNICATIONS* **2020**, 56 (3), 435–438.

<https://doi.org/10.1039/c9cc06524e>.

(12)

Ben M'Barek, Y.; Rosser, T.; Sum, J.; Blanchard, S.; Volatron, F.; Izzet, G.; Salles, R.; Fize, J.; Koepf, M.; Chavarot-Kerlidou, M.; Artero, V.; Proust, A. Dye-Sensitized Photocathodes: Boosting Photoelectrochemical Performances with Polyoxometalate Electron Transfer Mediators. *ACS APPLIED ENERGY MATERIALS* **2020**, 3 (1), 163–169.

<https://doi.org/10.1021/acsaem.9b02083>.

(13)

Bertin, A.; de Franceschi, N.; de la Mora, E.; Maity, S.; Alqabandi, M.; Miguet, N.; di Cicco, A.; Roos, W. H.; Mangenot, S.; Weissenhorn, W.; Bassereau, P. Human ESCRT-III Polymers Assemble on Positively Curved Membranes and Induce Helical Membrane Tube Formation. *NATURE COMMUNICATIONS* **2020**, 11 (1). <https://doi.org/10.1038/s41467-020-16368-5>.

(14)

Bertrand, Q.; Job, V.; Maillard, A. P.; Imbert, L.; Teulon, J.-M.; Favier, A.; Pellequer, J.-L.; Huber, P.; Attree, I.; Dessen, A. Exolysin (ExlA) from *Pseudomonas Aeruginosa* Punctures Holes into Target Membranes Using a Molten Globule Domain. *JOURNAL OF MOLECULAR BIOLOGY* **2020**, 432 (16), 4466–4480.

<https://doi.org/10.1016/j.jmb.2020.05.025>.

(15)

Bold, S.; Straistari, T.; Munoz-Garcia, A. B.; Pavone, M.; Artero, V.; Chavarot-Kerlidou, M.; Dietzek, B. Investigating Light-Induced Processes in Covalent Dye-Catalyst Assemblies for Hydrogen Production. *CATALYSTS* **2020**, 10 (11). <https://doi.org/10.3390/catal10111340>.

(16)

Bolte, S.; Marcon, E.; Jaunario, M.; Moyet, L.; Paternostre, M.; Kuntz, M.; Krieger-Liszkay, A. Dynamics of the Localization of the Plastid Terminal Oxidase inside the Chloroplast. *JOURNAL OF EXPERIMENTAL BOTANY* **2020**, 71 (9), 2661–2669.

<https://doi.org/10.1093/jxb/eraa074>.

(17)

Borbely, A.; Thoreau, F.; Figueras, E.; Kadri, M.; Coll, J.-L.; Boturyn, D.; Sewald, N. Synthesis and Biological Characterization of Monomeric and Tetrameric RGD-Cryptophycin Conjugates. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, 26 (12), 2602–2605.

<https://doi.org/10.1002/chem.201905437>.

(18)

Bouillot, S.; Pont, S.; Gallet, B.; Moriscot, C.; Deruelle, V.; Attree, I.; Huber, P. Inflammasome Activation By *Pseudomonas Aeruginosa*'s ExlA pore-Forming Toxin Is Detrimental for the Host. *CELLULAR MICROBIOLOGY* **2020**, 22 (11).

<https://doi.org/10.1111/cmi.13251>.

(19)

Bouron, A. Transcriptomic Profiling of Ca<sup>2+</sup> Transport Systems during the Formation of the Cerebral Cortex in Mice. *CELLS* **2020**, 9 (8). <https://doi.org/10.3390/cells9081800>.

(20)

Bozsoki, Z.; Gysel, K.; Hansen, S. B.; Lironi, D.; Kronauer, C.; Feng, F.; de Jong, N.; Vinther, M.; Kamble, M.; Thygesen, M. B.; Engholm, E.; Kofoed, C.; Fort, S.; Sullivan, J. T.; Ronson, C. W.; Jensen, K. J.; Blaise, M.; Oldroyd, G.; Stougaard, J.; Andersen, K. R.;

Radutoiu, S. Ligand-Recognizing Motifs in Plant LysM Receptors Are Major Determinants of Specificity. *SCIENCE* **2020**, 369 (6504), 663+. <https://doi.org/10.1126/science.abb3377>.

(21)

Burt, A.; Cassidy, C. K.; Ames, P.; Bacia-Verloop, M.; Baulard, M.; Huard, K.; Luthey-Schulten, Z.; Desfosses, A.; Stansfeld, P. J.; Margolin, W.; Parkinson, J. S.; Gutsche, I. Complete Structure of the Chemosensory Array Core Signalling Unit in an E. Coli Minicell Strain. *NATURE COMMUNICATIONS* **2020**, 11 (1). <https://doi.org/10.1038/s41467-020-14350-9>.

(22)

Caillat, C.; Guilligay, D.; Sulbaran, G.; Weissenhorn, W. Neutralizing Antibodies Targeting HIV-1 Gp41. *VIRUSES-BASEL* **2020**, 12 (11). <https://doi.org/10.3390/v12111210>.

(23)

Cailler, L. P.; Clemancey, M.; Barilone, J.; Maldivi, P.; Latour, J.-M.; Sorokin, A. B. Comparative Study of the Electronic Structures of Mu-Oxo, Mu-Nitrido, and Mu-Carbido Diiron Octapropylporphyrzine Complexes and Their Catalytic Activity in Cyclopropanation of Olefins. *INORGANIC CHEMISTRY* **2020**, 59 (2), 1104–1116.

<https://doi.org/10.1021/acs.inorgchem.9b02718>.

(24)

Cakiroglu, B.; Chauvin, J.; Le Goff, A.; Gorgy, K.; Ozacar, M.; Holzinger, M. Photoelectrochemically-Assisted Biofuel Cell Constructed by Redox Complex and g-C<sub>3</sub>N<sub>4</sub> Coated MWCNT Bioanode. *BIOSENSORS & BIOELECTRONICS* **2020**, 169.

<https://doi.org/10.1016/j.bios.2020.112601>.

(25)

Cakiroglu, B.; Chauvin, J.; Le Goff, A.; Gorgy, K.; Ozacar, M.; Holzinger, M. Photoelectrochemically-Assisted Biofuel Cell Constructed by Redox Complex and g-C<sub>3</sub>N<sub>4</sub> Coated MWCNT Bioanode. *BIOSENSORS & BIOELECTRONICS* **2020**, 169.

<https://doi.org/10.1016/j.bios.2020.112601>.

(26)

Camacho-Zarco, A. R.; Kalayil, S.; Maurin, D.; Salvi, N.; Delaforge, E.; Milles, S.; Jensen, M. R.; Hart, D. J.; Cusack, S.; Blackledge, M. Molecular Basis of Host-Adaptation Interactions between Influenza Virus Polymerase PB2 Subunit and ANP32A. *NATURE COMMUNICATIONS* **2020**, 11 (1). <https://doi.org/10.1038/s41467-020-17407-x>.

(27)

Caveney, N. A.; Egan, A. J. F.; Ayala, I.; Laguri, C.; Robb, C. S.; Breukink, E.; Vollmer, W.; Strynadka, N. C. J.; Simorre, J.-P. Structure of the Peptidoglycan Synthase Activator LpoP in Pseudomonas Aeruginosa. *STRUCTURE* **2020**, 28 (6), 643+.

<https://doi.org/10.1016/j.str.2020.03.012>.

(28)

Cepeda, C.; Raibaut, L.; Fremy, G.; Eliseeva, S. V.; Romieu, A.; Pecaut, J.; Boturyn, D.; Petoud, S.; Seneque, O. Using Native Chemical Ligation for Site-Specific Synthesis of Hetero-Bis-Lanthanide Peptide Conjugates: Application to Ratiometric Visible or Near-Infrared Detection of Zn<sup>2+</sup>. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, 26 (59), 13476–13483. <https://doi.org/10.1002/chem.202002708>.

(29)

Collomb, M.-N.; Morales, D. V.; Astudillo, C. N.; Dautreppe, B.; Fortage, J. Hybrid Photoanodes for Water Oxidation Combining a Molecular Photosensitizer with a Metal Oxide Oxygen-Evolving Catalyst. *SUSTAINABLE ENERGY & FUELS* **2020**, 4 (1), 31–49.

<https://doi.org/10.1039/c9se00597h>.

(30)

Coria-Oriundo, L. L.; Ceretti, H.; Roupioz, Y.; Battaglini, F. Redox Polyelectrolyte Modified Gold Nanoparticles Enhance the Detection of Adenosine in an Electrochemical Split-Aptamer Assay. *CHEMISTRYSELECT* **2020**, *5* (36), 11391–11398.  
<https://doi.org/10.1002/slct.202002488>.

(31)

Cuveillier, C.; Delaroche, J.; Seggio, M.; Gory-Faure, S.; Bosc, C.; Denarier, E.; Bacia, M.; Schoehn, G.; Mohrbach, H.; Kulic, I.; Andrieux, A.; Arnal, I.; Delphin, C. MAP6 Is an Intraluminal Protein That Induces Neuronal Microtubules to Coil. *SCIENCE ADVANCES* **2020**, *6* (14). <https://doi.org/10.1126/sciadv.aaz4344>.

(32)

da Silva, V. M.; Cabral, A. D.; Speranca, M. A.; Squina, F. M.; Muniz, J. R. C.; Martin, L.; Nicolet, Y.; Garcia, W. High-Resolution Structure of a Modular Hyperthermostable Endo-Beta-1,4-Mannanase from *Thermotoga Petrophila*: The Ancillary Immunoglobulin-like Module Is a Thermostabilizing Domain. *BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS* **2020**, *1868* (8). <https://doi.org/10.1016/j.bbapap.2020.140437>.

(33)

Dalzon, B.; Torres, A.; Reymond, S.; Gallet, B.; Saint-Antonin, F.; Collin-Faure, V.; Moriscot, C.; Fenel, D.; Schoehn, G.; Aude-Garcia, C.; Rabilloud, T. Influences of Nanoparticles Characteristics on the Cellular Responses: The Example of Iron Oxide and Macrophages. *NANOMATERIALS* **2020**, *10* (2). <https://doi.org/10.3390/nano10020266>.

(34)

Darpenigny, C.; Molina-Boisseau, S.; Nonglaton, G.; Bras, J.; Jean, B. Ice-Templated Freeze-Dried Cryogels from Tunicate Cellulose Nanocrystals with High Specific Surface Area and Anisotropic Morphological and Mechanical Properties. *CELLULOSE* **2020**, *27* (1), 233–247. <https://doi.org/10.1007/s10570-019-02772-8>.

(35)

de la Cruz, N.; Ramos-Soriano, J.; Reina, J. J.; de Paz, J. L.; Thepaut, M.; Fieschi, F.; Sousa-Herves, A.; Rojo, J. Influence of the Reducing-End Anomeric Configuration of the Man(9)Epitope on DC-SIGN Recognition. *ORGANIC & BIOMOLECULAR CHEMISTRY* **2020**, *18* (31), 6086–6094. <https://doi.org/10.1039/d0ob01380c>.

(36)

De Zitter, E.; Ridard, J.; Thedie, D.; Adam, V.; Levy, B.; Byrdin, M.; Gotthard, G.; Van Meervelt, L.; Dedecker, P.; Demachy, I.; Bourgeois, D. Mechanistic Investigations of Green MEos4b Reveal a Dynamic Long-Lived Dark State. *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* **2020**, *142* (25), 10978–10988. <https://doi.org/10.1021/jacs.0c01880>.

(37)

Decelle, J.; Veronesi, G.; Gallet, B.; Stryhanyuk, H.; Benettoni, P.; Schmidt, M.; Tucoulou, R.; Passarelli, M.; Bohic, S.; Clode, P.; Musat, N. Subcellular Chemical Imaging: New Avenues in Cell Biology. *TRENDS IN CELL BIOLOGY* **2020**, *30* (3), 173–188.  
<https://doi.org/10.1016/j.tcb.2019.12.007>.

(38)

Dekoninck, K.; Letoquart, J.; Laguri, C.; Demange, P.; Bevernaegie, R.; Simorre, J.-P.; Dehu, O.; Iorga, B. I.; Elias, B.; Cho, S.-H.; Collet, J.-F. Defining the Function of OmpA in the Rcs Stress Response. *ELIFE* **2020**, *9*. <https://doi.org/10.7554/eLife.60861>.

(39)

Dellero, Y.; Maes, C.; Morabito, C.; Schuler, M.; Bournaud, C.; Aiese Cigliano, R.; Marechal, E.; Amato, A.; Rebeille, F. The Zoospores of the Thraustochytrid *Aurantiochytrium Limacinum*: Transcriptional Reprogramming and Lipid Metabolism Associated to Their Specific Functions. *ENVIRONMENTAL MICROBIOLOGY* **2020**, *22* (5), 1901–1916. <https://doi.org/10.1111/1462-2920.14978>.

- (40)  
Desmet, C.; Vindas, K.; Alvarado Meza, R.; Garrigue, P.; Voci, S.; Sojic, N.; Maziz, A.; Courson, R.; Malaquin, L.; Leichle, T.; Buhot, A.; Roupioz, Y.; Leroy, L.; Engel, E. Multiplexed Remote SPR Detection of Biological Interactions through Optical Fiber Bundles. *SENSORS* **2020**, *20* (2). <https://doi.org/10.3390/s20020511>.
- (41)  
Deveci, A.; Hasna, J.; Bouron, A. Inhibition of Store-Operated Calcium Channels by N-Arachidonoyl Glycine (NAGly): No Evidence for the Involvement of Lipid-Sensing G Protein Coupled Receptors. *SCIENTIFIC REPORTS* **2020**, *10* (1). <https://doi.org/10.1038/s41598-020-59565-4>.
- (42)  
Dezanet, C.; Kempf, J.; Mingeot-Leclercq, M.-P.; Decout, J.-L. Amphiphilic Aminoglycosides as Medicinal Agents. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* **2020**, *21* (19). <https://doi.org/10.3390/ijms21197411>.
- (43)  
Donchet, A.; Vassal-Stermann, E.; Gerard, F. C. A.; Ruigrok, R. W. H.; Crepin, T. Differential Behaviours and Preferential Bindings of Influenza Nucleoproteins on Importins-Alpha. *VIRUSES-BASEL* **2020**, *12* (8). <https://doi.org/10.3390/v12080834>.
- (44)  
Erba, E. B.; Signor, L.; Petosa, C. Exploring the Structure and Dynamics of Macromolecular Complexes by Native Mass Spectrometry. *JOURNAL OF PROTEOMICS* **2020**, 222. <https://doi.org/10.1016/j.jprot.2020.103799>.
- (45)  
Fajardo, A. S.; Legrand, P.; Paya-Tormo, L.; Martin, L.; Pellicer Martinez, M. T.; Echavarri-Erasun, C.; Vernede, X.; Rubio, L. M.; Nicolet, Y. Structural Insights into the Mechanism of the Radical SAM Carbide Synthase NifB, a Key Nitrogenase Cofactor Maturing Enzyme. *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* **2020**, *142* (25), 11006–11012. <https://doi.org/10.1021/jacs.0c02243>.
- (46)  
Fouet, G.; Bally, I.; Signor, L.; Haussermann, K.; Thielens, N. M.; Rossi, V.; Gaboriaud, C. Headless C1q: A New Molecular Tool to Decipher Its Collagen-like Functions. *FEBS JOURNAL*. <https://doi.org/10.1111/febs.15543>.
- (47)  
Fouet, G.; Gout, E.; Wicker-Planquart, C.; Bally, I.; De Nardis, C.; Dedieu, S.; Chouquet, A.; Gaboriaud, C.; Thielens, N. M.; Kleman, J.-P.; Rossi, V. Complement C1q Interacts With LRP1 Clusters II and IV Through a Site Close but Different From the Binding Site of Its C1r and C1s-Associated Proteases. *FRONTIERS IN IMMUNOLOGY* **2020**, *11*. <https://doi.org/10.3389/fimmu.2020.583754>.
- (48)  
Fouet, G.; Gout, E.; Wicker-Planquart, C.; Bally, I.; De Nardis, C.; Dedieu, S.; Chouquet, A.; Gaboriaud, C.; Thielens, N. M.; Kleman, J.-P.; Rossi, V. Complement C1q Interacts With LRP1 Clusters II and IV Through a Site Close but Different From the Binding Site of Its C1r and C1s-Associated Proteases. *FRONTIERS IN IMMUNOLOGY* **2020**, *11*. <https://doi.org/10.3389/fimmu.2020.583754>.
- (49)  
Fremy, G.; Raibaut, L.; Cepeda, C.; Sanson, M.; Boujut, M.; Seneque, O. A Novel DOTA-like Building Block with a Picolinate Arm for the Synthesis of Lanthanide Complex-Peptide Conjugates with Improved Luminescence Properties. *JOURNAL OF INORGANIC BIOCHEMISTRY* **2020**, *213*. <https://doi.org/10.1016/j.jinorgbio.2020.111257>.
- (50)

- Froux, L.; Elbahnsi, A.; Boucherle, B.; Billet, A.; Baatallah, N.; Hoffmann, B.; Alliot, J.; Zelli, R.; Zeinyeh, W.; Haudecoeur, R.; Chevalier, B.; Fortune, A.; Mirval, S.; Simard, C.; Lehn, P.; Mornon, J.-P.; Hinzpeter, A.; Becq, F.; Callebaut, I.; Decout, J.-L. Targeting Different Binding Sites in the CFTR Structures Allows to Synergistically Potentiate Channel Activity. *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY* **2020**, *190*.  
<https://doi.org/10.1016/j.ejmech.2020.112116>. (51)
- Gaillard, M.; Thuaire, A.; Nonglaton, G.; Agache, V.; Roupioz, Y.; Raillon, C. Biosensing Extracellular Vesicles: Contribution of Biomolecules in Affinity-Based Methods for Detection and Isolation. *ANALYST* **2020**, *145* (6), 1997–2013.  
<https://doi.org/10.1039/c9an01949a>. (52)
- Gillard, M.; Weynand, J.; Bonnet, H.; Loiseau, F.; Decottignies, A.; Dejeu, J.; Defrancq, E.; Elias, B. Flexible Ru(II)Schiff Base Complexes: G-Quadruplex DNA Binding and Photo-Induced Cancer Cell Death. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, *26* (61), 13849–13860. <https://doi.org/10.1002/chem.202001409>. (53)
- Goure, E.; Gerey, B.; Molton, F.; Pecaut, J.; Clerac, R.; Thomas, F.; Fortage, J.; Collomb, M.-N. Seven Reversible Redox Processes in a Self-Assembled Cobalt Pentanuclear Bis(Triple-Stranded Helicate): Structural, Spectroscopic, and Magnetic Characterizations in the (CoCo4II)-Co-I, Co-5(II), and (Co3Co2III)-Co-II Redox States. *INORGANIC CHEMISTRY* **2020**, *59* (13), 9196–9205. <https://doi.org/10.1021/acs.inorgchem.0c01102>. (54)
- Gross, A. J.; Tanaka, S.; Colomies, C.; Giroud, F.; Nishina, Y.; Cosnier, S.; Tsujimura, S.; Holzinger, M. Diazonium Electrografting vs. Physical Adsorption of Azure A at Carbon Nanotubes for Mediated Glucose Oxidation with FAD-GDH. *CHEMELECTROCHEM.*  
<https://doi.org/10.1002/celc.202000953>. (55)
- Hahn, F.; Niesar, A.; Wangen, C.; Wild, M.; Grau, B.; Herrmann, L.; Capci, A.; Adrait, A.; Coute, Y.; Tsogoeva, S. B.; Marschall, M. Target Verification of Artesunate-Related Antiviral Drugs: Assessing the Role of Mitochondrial and Regulatory Proteins by Click Chemistry and Fluorescence Labeling. *ANTIVIRAL RESEARCH* **2020**, *180*.  
<https://doi.org/10.1016/j.antiviral.2020.104861>. (56)
- Hennicke, J.; Schwaigerlehner, L.; Gruenwald-Gruber, C.; Bally, I.; Ling, W. L.; Thielens, N.; Reiser, J.-B.; Kunert, R. Transient Pentameric IgM Fulfill Biological Function-Effect of Expression Host and Transfection on IgM Properties. *PLOS ONE* **2020**, *15* (3).  
<https://doi.org/10.1371/journal.pone.0229992>. (57)
- Hosek, T.; Bougault, C. M.; Lavergne, J.-P.; Martinez, D.; Ayala, I.; Fenel, D.; Restelli, M.; Morlot, C.; Habenstein, B.; Grangeasse, C.; Simorre, J.-P. Structural Features of the Interaction of MapZ with FtsZ and Membranes in Streptococcus Pneumoniae. *SCIENTIFIC REPORTS* **2020**, *10* (1). <https://doi.org/10.1038/s41598-020-61036-9>. (58)
- Jensen, M. R.; Yabukarski, F.; Communie, G.; Condamine, E.; Mas, C.; Volchkova, V.; Tarbouriech, N.; Bourhis, J.-M.; Volchkov, V.; Blackledge, M.; Jamin, M. Structural Description of the Nipah Virus Phosphoprotein and Its Interaction with STAT1. *BIOPHYSICAL JOURNAL* **2020**, *118* (10), 2470–2488.  
<https://doi.org/10.1016/j.bpj.2020.04.010>. (59)

Jessop, M.; Arragain, B.; Miras, R.; Fraudeau, A.; Huard, K.; Bacia-Verloop, M.; Catty, P.; Felix, J.; Malet, H.; Gutsche, I. Structural Insights into ATP Hydrolysis by the MoxR ATPase RavA and the LdcI-RavA Cage-like Complex. *COMMUNICATIONS BIOLOGY* **2020**, *3* (1). <https://doi.org/10.1038/s42003-020-0772-0>.

(60)

Jin, Z.-H.; Tsuji, A. B.; Degardin, M.; Sugyo, A.; Obara, S.; Wakizaka, H.; Nagatsu, K.; Hu, K.; Zhang, M.-R.; Dumy, P.; Boturyn, D.; Higashi, T. Radiotheranostic Agent Cu-64-Cyclam-RAFT-c(-RGDfK)-(4) for Management of Peritoneal Metastasis in Ovarian Cancer. *CLINICAL CANCER RESEARCH* **2020**, *26* (23), 6230–6241. <https://doi.org/10.1158/1078-0432.CCR-20-1205>.

(61)

Kanso, H.; Clarke, R. M.; Kochem, A.; Arora, H.; Philouze, C.; Jarjayes, O.; Storr, T.; Thomas, F. Effect of Distortions on the Geometric and Electronic Structures of One-Electron Oxidized Vanadium(IV), Copper(II), and Cobalt(II)/(III) Salen Complexes. *INORGANIC CHEMISTRY* **2020**, *59* (7), 5133–5148. <https://doi.org/10.1021/acs.inorgchem.0c00381>.

(62)

Kovalev, K.; Volkov, D.; Astashkin, R.; Alekseev, A.; Gushchin, I.; Haro-Moreno, J. M.; Chizhov, I.; Siletsky, S.; Mamedov, M.; Rogachev, A.; Balandin, T.; Borshchevskiy, V.; Popov, A.; Bourenkov, G.; Bamberg, E.; Rodriguez-Valera, F.; Buldt, G.; Gordeliy, V. High-Resolution Structural Insights into the Heliorhodopsin Family. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* **2020**, *117* (8), 4131–4141. <https://doi.org/10.1073/pnas.1915888117>.

(63)

Kovalev, K.; Astashkin, R.; Gushchin, I.; Orekhov, P.; Volkov, D.; Zinovev, E.; Marin, E.; Rulev, M.; Alekseev, A.; Royant, A.; Carpentier, P.; Vaganova, S.; Zabelskii, D.; Baeken, C.; Sergeev, I.; Balandin, T.; Bourenkov, G.; Carpena, X.; Boer, R.; Maliar, N.; Borshchevskiy, V.; Bueldt, G.; Bamberg, E.; Gordeliy, V. Molecular Mechanism of Light-Driven Sodium Pumping. *NATURE COMMUNICATIONS* **2020**, *11* (1). <https://doi.org/10.1038/s41467-020-16032-y>.

(64)

Kuhausdomlarp, S.; Cerofolini, L.; Santarsia, S.; Gillon, E.; Fallarini, S.; Lombardi, G.; Denis, M.; Giuntini, S.; Valori, C.; Fragai, M.; Imberty, A.; Dondoni, A.; Nativi, C. Fucosylated Ubiquitin and Orthogonally Glycosylated Mutant A28C: Conceptually New Ligands for Burkholderia Ambifaria Lectin (BambL). *CHEMICAL SCIENCE* **2020**, *11* (47). <https://doi.org/10.1039/d0sc03741a>.

(65)

Kumar, A.; Durand, H.; Zeno, E.; Balsollier, C.; Watbled, B.; Sillard, C.; Fort, S.; Baussanne, I.; Belgacem, N.; Lee, D.; Hediger, S.; Demeunynck, M.; Bras, J.; De Paepe, G. The Surface Chemistry of a Nanocellulose Drug Carrier Unravelling by MAS-DNP. *CHEMICAL SCIENCE* **2020**, *11* (15), 3868–3877. <https://doi.org/10.1039/c9sc06312a>.

(66)

Kunert, R.; Philouze, C.; Berthiol, F.; Jarjayes, O.; Storr, T.; Thomas, F. Distorted Copper(II) Radicals with Sterically Hindered Salens: Electronic Structure and Aerobic Oxidation of Alcohols. *DALTON TRANSACTIONS* **2020**, *49* (37), 12990–13002. <https://doi.org/10.1039/d0dt02524k>.

(67)

Kunert, R.; Philouze, C.; Berthiol, F.; Jarjayes, O.; Storr, T.; Thomas, F. Distorted Copper(II) Radicals with Sterically Hindered Salens: Electronic Structure and Aerobic Oxidation of Alcohols. *DALTON TRANSACTIONS* **2020**, *49* (37), 12990–13002. <https://doi.org/10.1039/d0dt02524k>.

(68)  
Lai, X.; Chahtane, H.; Martin-Arevalillo, R.; Zubieta, C.; Parcy, F. Contrasted Evolutionary Trajectories of Plant Transcription Factors. *CURRENT OPINION IN PLANT BIOLOGY* **2020**, *54*, 101–107. <https://doi.org/10.1016/j.pbi.2020.03.002>.

(69)  
Lartia, R.; Vallee, C.; Defrancq, E. Post-Synthetic Transamination at Position N4 of Cytosine in Oligonucleotides Assembled with Routinely Used Phosphoramidites. *ORGANIC & BIOMOLECULAR CHEMISTRY* **2020**, *18* (47), 9632–9638. <https://doi.org/10.1039/d0ob02059a>.

(70)  
Leconte, N.; Gentil, S.; Molton, F.; Philouze, C.; Le Goff, A.; Thomas, F. Complexes of the Bis(Di-Tert-Butyl-Aniline)Amine Pincer Ligand: The Case of Copper. *EUROPEAN JOURNAL OF INORGANIC CHEMISTRY* **2020**, *2020* (28), 2691–2699. <https://doi.org/10.1002/ejic.202000379>.

(71)  
Leroux, M.; Michaud, J.; Bayma, E.; Armand, S.; Drouillard, S.; Priem, B. Misincorporation of Galactose by Chondroitin Synthase of Escherichia Coli K4: From Traces to Synthesis of Chondbiuronan, a Novel Chondroitin-Like Polysaccharide. *BIOMOLECULES* **2020**, *10* (12). <https://doi.org/10.3390/biom10121667>.

(72)  
Liebers, M.; Gillet, F.-X.; Israel, A.; Pounot, K.; Chambon, L.; Chieb, M.; Chevalier, F.; Ruedas, R.; Favier, A.; Gans, P.; Boeri Erba, E.; Cobessi, D.; Pfannschmidt, T.; Blanvillain, R. Nucleo-Plastidic PAP8/PTAC6 Couples Chloroplast Formation with Photomorphogenesis. *EMBO JOURNAL*. <https://doi.org/10.15252/emboj.2020104941>.

(73)  
Linares, R.; Arnaud, C.-A.; Degroux, S.; Schoehn, G.; Breyton, C. Structure, Function and Assembly of the Long, Flexible Tail of Siphophages. *CURRENT OPINION IN VIROLOGY* **2020**, *45*, 34–42. <https://doi.org/10.1016/j.coviro.2020.06.010>.

(74)  
Lopez, S.; Marchi-Delapierre, C.; Cavazza, C.; Menage, S. A Selective Sulfide Oxidation Catalyzed by Heterogeneous Artificial Metalloenzymes Iron@NikA. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, *26* (70), 16633–16638. <https://doi.org/10.1002/chem.202003746>.

(75)  
Lopez, S.; Mayes, D. M.; Crouzy, S. C.; Cavazza, C.; Lepretre, C.; Moreau, Y.; Burzclaff, N.; Delapierre, C. M.; Menage, S. A Mechanistic Rationale Approach Revealed the Unexpected Chemoselectivity of an Artificial Ru-Dependent Oxidase: A Dual Experimental/Theoretical Approach. *ACS CATALYSIS* **2020**, *10* (10), 5631–5645. <https://doi.org/10.1021/acscatal.9b04904>.

(76)  
Lucarini, F.; Fize, J.; Morozan, A.; Marazzi, M.; Natali, M.; Pastore, M.; Artero, V.; Ruggi, A. Insights into the Mechanism of Photosynthetic H<sub>2</sub> Evolution Catalyzed by a Heptacoordinate Cobalt Complex. *SUSTAINABLE ENERGY & FUELS* **2020**, *4* (2), 589–599. <https://doi.org/10.1039/c9se00434c>.

(77)  
Mangue, J.; Gondre, C.; Pecaut, J.; Duboc, C.; Menage, S.; Torelli, S. Controlled O(2)Reduction at a Mixed-Valent (II,I) Cu<sub>2</sub>S Core. *CHEMICAL COMMUNICATIONS* **2020**, *56* (67), 9636–9639. <https://doi.org/10.1039/d0cc03987j>.

(78)



- Marchioni, M.; Battocchio, C.; Joly, Y.; Gateau, C.; Nappini, S.; Pis, I.; Delangle, P.; Michaud-Soret, I.; Deniaud, A.; Veronesi, G. Thiolate-Capped Silver Nanoparticles: Discerning Direct Grafting from Sulfidation at the Metal-Ligand Interface by Interrogating the Sulfur Atom. *JOURNAL OF PHYSICAL CHEMISTRY C* **2020**, *124* (24), 13467–13478. <https://doi.org/10.1021/acs.jpcc.0c03388>. (79)
- Marchioni, M.; Veronesi, G.; Worms, I.; Ling, W. L.; Gallon, T.; Leonard, D.; Gateau, C.; Chevallet, M.; Jouneau, P.-H.; Carlini, L.; Battocchio, C.; Delangle, P.; Michaud-Soret, I.; Deniaud, A. Safer-by-Design Biocides Made of Tri-Thiol Bridged Silver Nanoparticle Assemblies. *NANOSCALE HORIZONS* **2020**, *5* (3), 507–513. <https://doi.org/10.1039/c9nh00286c>. (80)
- Marechal, E. From a Free-Living Cyanobacteria to an Obligate Endosymbiotic Organelle: Early Steps in Lipid Metabolism Integration in Paulinellidae. *PLANT AND CELL PHYSIOLOGY* **2020**, *61* (5), 865–868. <https://doi.org/10.1093/pcp/pcaa043>. (81)
- Monestier, M.; Pujol, A. M.; Lamboux, A.; Cuillel, M.; Pignot-Paintrand, I.; Cassio, D.; Charbonnier, P.; Um, K.; Harel, A.; Bohic, S.; Gateau, C.; Batter, V.; Brun, V.; Delangle, P.; Mintz, E. A Liver-Targeting Cu(i) Chelator Relocates Cu in Hepatocytes and Promotes Cu Excretion in a Murine Model of Wilson’s Disease. *METALLOMICS* **2020**, *12* (6), 1000–1008. <https://doi.org/10.1039/d0mt00069h>. (82)
- Mouchel Dit Leguerrier, D.; Barre, R.; Bryden, M.; Imbert, D.; Philouze, C.; Jarjayes, O.; Luneau, D.; Molloy, J. K.; Thomas, F. Structural and Spectroscopic Investigations of Nine-Coordinate Redox Active Lanthanide Complexes with a Pincer O,N,O Ligand. *DALTON TRANSACTIONS* **2020**, *49* (24), 8238–8246. <https://doi.org/10.1039/d0dt01388a>. (83)
- Ngo, T.-D.; Perdu, C.; Jneid, B.; Ragno, M.; Ducassou, J. N.; Kraut, A.; Coute, Y.; Stopford, C.; Attree, I.; Rietsch, A.; Faudry, E. The PopN Gate-Keeper Complex Acts on the ATPase PscN to Regulate the T3SS Secretion Switch from Early to Middle Substrates in *Pseudomonas Aeruginosa*. *JOURNAL OF MOLECULAR BIOLOGY* **2020**, *432* (24). <https://doi.org/10.1016/j.jmb.2020.10.024>. (84)
- Oukacine, F.; Ravelet, C.; Peyrin, E. Enantiomeric Sensing and Separation by Nucleic Acids. *TRAC-TRENDS IN ANALYTICAL CHEMISTRY* **2020**, *122*. <https://doi.org/10.1016/j.trac.2019.115733>. (85)
- Palomar, Q.; Gondran, C.; Lellouche, J.-P.; Cosnier, S.; Holzinger, M. Functionalized Tungsten Disulfide Nanotubes for Dopamine and Catechol Detection in a Tyrosinase-Based Amperometric Biosensor Design. *JOURNAL OF MATERIALS CHEMISTRY B* **2020**, *8* (16), 3566–3573. <https://doi.org/10.1039/c9tb01926j>. (86)
- Palomar, Q.; Xu, X.; Gondran, C.; Holzinger, M.; Cosnier, S.; Zhang, Z. Voltammetric Sensing of Recombinant Viral Dengue Virus 2 NS1 Based on Au Nanoparticle-Decorated Multiwalled Carbon Nanotube Composites. *MICROCHIMICA ACTA* **2020**, *187* (6). <https://doi.org/10.1007/s00604-020-04339-y>. (87)
- Papadakis, M.; Barrozo, A.; Straistari, T.; Queyriaux, N.; Putri, A.; Fize, J.; Giorgi, M.; Reglier, M.; Massin, J.; Hardre, R.; Orio, M. Ligand-Based Electronic Effects on the

- Electrocatalytic Hydrogen Production by Thiosemicarbazone Nickel Complexes. *DALTON TRANSACTIONS* **2020**, 49 (16), 5064–5073. <https://doi.org/10.1039/c9dt04775a>. (88)
- Pardoux, E.; Boturyn, D.; Roupioz, Y. Antimicrobial Peptides as Probes in Biosensors Detecting Whole Bacteria: A Review. *MOLECULES* **2020**, 25 (8). <https://doi.org/10.3390/molecules25081998>. (89)
- Pazos, M.; Peters, K.; Boes, A.; Safaei, Y.; Kenward, C.; Caveney, N. A.; Laguri, C.; Breukink, E.; Strynadka, N. C. J.; Simorre, J.-P.; Terrak, M.; Vollmer, W. SPOR Proteins Are Required for Functionality of Class A Penicillin-Binding Proteins in Escherichia Coli. *MBIO* **2020**, 11 (6). <https://doi.org/10.1128/mBio.02796-20>. (90)
- Pazos, M.; Peters, K.; Boes, A.; Safaei, Y.; Kenward, C.; Caveney, N. A.; Laguri, C.; Breukink, E.; Strynadka, N. C. J.; Simorre, J.-P.; Terrak, M.; Vollmer, W. SPOR Proteins Are Required for Functionality of Class A Penicillin-Binding Proteins in Escherichia Coli. *MBIO* **2020**, 11 (6). <https://doi.org/10.1128/mBio.02796-20>. (91)
- Perenon, M.; Bonnet, H.; Lavergne, T.; Dejeu, J.; Defrancq, E. Surface Plasmon Resonance Study of the Interaction of N-Methyl Mesoporphyrin IX with G-Quadruplex DNA. *PHYSICAL CHEMISTRY CHEMICAL PHYSICS* **2020**, 22 (7), 4158–4164. <https://doi.org/10.1039/c9cp06321h>. (92)
- Perez, S.; Bonnardel, F.; Lisacek, F.; Imberty, A.; Ricard Blum, S.; Makshakova, O. GAG-DB, the New Interface of the Three-Dimensional Landscape of Glycosaminoglycans. *BIOMOLECULES* **2020**, 10 (12). <https://doi.org/10.3390/biom10121660>. (93)
- Pieri, C.; Bhattacharjee, A.; Barrozo, A.; Faure, B.; Giorgi, M.; Fize, J.; Reglier, M.; Field, M.; Orio, M.; Artero, V.; Hardre, R. Hydrogen Evolution Reaction Mediated by an All-Sulfur Trinuclear Nickel Complex. *CHEMICAL COMMUNICATIONS* **2020**, 56 (75), 11106–11109. <https://doi.org/10.1039/d0cc04174b>. (94)
- Pifferi, C.; Ruiz-de-Angulo, A.; Goyard, D.; Tiertant, C.; Sacristan, N.; Barriales, D.; Berthet, N.; Anguita, J.; Renaudet, O.; Fernandez-Tejada, A. Chemical Synthesis and Immunological Evaluation of New Generation Multivalent Anticancer Vaccines Based on a Tn Antigen Analogue. *CHEMICAL SCIENCE* **2020**, 11 (17), 4488–4498. <https://doi.org/10.1039/d0sc00544d>. (95)
- Pina, A.; Kadri, M.; Arosio, D.; Dal Corso, A.; Coll, J.-L.; Gennari, C.; Boturyn, D. Multimeric Presentation of RGD Peptidomimetics Enhances Integrin Binding and Tumor Cell Uptake. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, 26 (33), 7492–7496. <https://doi.org/10.1002/chem.202001115>. (96)
- Pont, S.; Fraikin, N.; Caspar, Y.; Van Melderen, L.; Attree, I.; Cretin, F. Bacterial Behavior in Human Blood Reveals Complement Evaders with Some Persister-like Features. *PLOS PATHOGENS* **2020**, 16 (12). <https://doi.org/10.1371/journal.ppat.1008893>. (97)
- Porro, M. L. T.; Saint-Pierre, C.; Gasparutto, D.; Ravanat, J.-L. Solid-Phase Synthesis of Branched Oligonucleotides Containing a Biologically Relevant DCyd341 Interstrand Crosslink DNA Lesion. *ORGANIC & BIOMOLECULAR CHEMISTRY* **2020**, 18 (10), 1892–1899. <https://doi.org/10.1039/c9ob01021a>.

(98)  
Pounot, K.; Chaaban, H.; Fodera, V.; Schiro, G.; Weik, M.; Seydel, T. Tracking Internal and Global Diffusive Dynamics During Protein Aggregation by High-Resolution Neutron Spectroscopy. *JOURNAL OF PHYSICAL CHEMISTRY LETTERS* **2020**, *11* (15), 6299–6304. <https://doi.org/10.1021/acs.jpcclett.0c01530>.

(99)  
Puglisi, R.; Erba, E. B.; Pastore, A. A Guide to Native Mass Spectrometry to Determine Complex Interactomes of Molecular Machines. *FEBS JOURNAL* **2020**, *287* (12), 2428–2439. <https://doi.org/10.1111/febs.15281>.

(100)  
Queyriaux, N.; Abel, K.; Fize, J.; Pecaut, J.; Orio, M.; Hammarstrom, L. From Non-Innocent to Guilty: On the Role of Redox-Active Ligands in the Electro-Assisted Reduction of CO(2) Mediated by a Cobalt(Ii)-Polypyridyl Complex. *SUSTAINABLE ENERGY & FUELS* **2020**, *4* (7), 3668–3676. <https://doi.org/10.1039/d0se00570c>.

(101)  
Queyriaux, N.; Sun, D.; Fize, J.; Pecaut, J.; Field, M. J.; Chavarot-Kerlidou, M.; Artero, V. Electrocatalytic Hydrogen Evolution with a Cobalt Complex Bearing Pendant Proton Relays: Acid Strength and Applied Potential Govern Mechanism and Stability. *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* **2020**, *142* (1), 274–282. <https://doi.org/10.1021/jacs.9b10407>.

(102)  
Ramirez-Rios, S.; Michallet, S.; Peris, L.; Barette, C.; Rabat, C.; Feng, Y.; Fauvarque, M.-O.; Andrieux, A.; Sadoul, K.; Lafanechere, L. A New Quantitative Cell-Based Assay Reveals Unexpected Microtubule Stabilizing Activity of Certain Kinase Inhibitors, Clinically Approved or in the Process of Approval. *FRONTIERS IN PHARMACOLOGY* **2020**, *11*. <https://doi.org/10.3389/fphar.2020.00543>.

(103)  
Reuillard, B.; Blanco, M.; Calvillo, L.; Coutard, N.; Ghedjatti, A.; Chenevier, P.; Agnoli, S.; Otyepka, M.; Granozzi, G.; Artero, V. Noncovalent Integration of a Bioinspired Ni Catalyst to Graphene Acid for Reversible Electrocatalytic Hydrogen Oxidation. *ACS APPLIED MATERIALS & INTERFACES* **2020**, *12* (5), 5805–5811. <https://doi.org/10.1021/acsami.9b18922>.

(104)  
Reynaud, L.; Bouchet-Spinelli, A.; Raillon, C.; Buhot, A. Sensing with Nanopores and Aptamers: A Way Forward. *SENSORS* **2020**, *20* (16). <https://doi.org/10.3390/s20164495>.

(105)  
Roblin, C.; Chiumento, S.; Bornet, O.; Nouailler, M.; Mueller, C. S.; Jeannot, K.; Basset, C.; Kieffer-Jaquinod, S.; Coute, Y.; Torelli, S.; Le Pape, L.; Schuenemann, V.; Olleik, H.; De La Villeon, B.; Sockeel, P.; Di Pasquale, E.; Nicoletti, C.; Vidal, N.; Poljak, L.; Iranzo, O.; Giardina, T.; Fons, M.; Devillard, E.; Polard, P.; Maresca, M.; Perrier, J.; Atta, M.; Guerlesquin, F.; Lafond, M.; Duarte, V. The Unusual Structure of Ruminococcin C1 Antimicrobial Peptide Confers Clinical Properties. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* **2020**, *117* (32), 19168–19177. <https://doi.org/10.1073/pnas.2004045117>.

(106)  
Roulier, B.; Peres, B.; Haudecoeur, R. Advances in the Design of Genuine Human Tyrosinase Inhibitors for Targeting Melanogenesis and Related Pigmentations. *JOURNAL OF MEDICINAL CHEMISTRY* **2020**, *63* (22), 13428–13443. <https://doi.org/10.1021/acs.jmedchem.0c00994>.

(107)

- Rousseau, L.; Herrero, C.; Clemancey, M.; Imberdis, A.; Blondin, G.; Lefevre, G. Evolution of Ate-Organoniron(II) Species towards Lower Oxidation States: Role of the Steric and Electronic Factors. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, *26* (11), 2417–2428. <https://doi.org/10.1002/chem.201904228>. (108)
- Roussel, E.; Moreno, A.; Altounian, N.; Philouze, C.; Peres, B.; Thomas, A.; Renaudet, O.; Falson, P.; Boumendjel, A. Chromones Bearing Amino Acid Residues: Easily Accessible and Potent Inhibitors of the Breast Cancer Resistance Protein ABCG2. *EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY* **2020**, *202*. <https://doi.org/10.1016/j.ejmech.2020.112503>. (109)
- Salvaing, J.; Botella, C.; Albrieux, C.; Gros, V.; Block, M. A.; Jouhet, J. PUB11-Dependent Ubiquitination of the Phospholipid Flippase ALA10 Modifies ALA10 Localization and Affects the Pool of Linolenic Phosphatidylcholine. *FRONTIERS IN PLANT SCIENCE* **2020**, *11*. <https://doi.org/10.3389/fpls.2020.01070>. (110)
- Sarthou, M. C. M.; Revel, B. H.; Villiers, F.; Alban, C.; Bonnot, T.; Gigarel, O.; Boisson, A.-M.; Ravanel, S.; Bourguignon, J. Development of a Metalloproteomic Approach to Analyse the Response of Arabidopsis Cells to Uranium Stress. *METALLOMICS* **2020**, *12* (8), 1302–1313. <https://doi.org/10.1039/d0mt00092b>. (111)
- Shalayel, I.; Youssef-Saliba, S.; Vazart, F.; Ceccarelli, C.; Bridoux, M.; Vallee, Y. Cysteine Chemistry in Connection with Abiogenesis. *EUROPEAN JOURNAL OF ORGANIC CHEMISTRY* **2020**, *2020* (20), 3019–3023. <https://doi.org/10.1002/ejoc.202000089>. (112)
- Sharma, V. R.; Shrivastava, A.; Gallet, B.; Karepina, E.; Charbonnier, P.; Chevallet, M.; Jouneau, P.-H.; Deniaud, A. Canalicular Domain Structure and Function in Matrix-Free Hepatic Spheroids. *BIOMATERIALS SCIENCE* **2020**, *8* (1), 485–496. <https://doi.org/10.1039/c9bm01143a>. (113)
- Siebert, C.; Mercier, C.; Martin, D. K.; Renesto, P.; Schaack, B. Physicochemical Evidence That Francisella FupA and FupB Proteins Are Porins. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* **2020**, *21* (15). <https://doi.org/10.3390/ijms21155496>. (114)
- Silva, C. S.; Nayak, A.; Lai, X.; Hutin, S.; Hugouvieux, V.; Jung, J.-H.; Lopez-Vidriero, I.; Franco-Zorrilla, J. M.; Panigrahi, K. C. S.; Nanao, M. H.; Wigge, P. A.; Zubieta, C. Molecular Mechanisms of Evening Complex Activity in Arabidopsis. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* **2020**, *117* (12), 6901–6909. <https://doi.org/10.1073/pnas.1920972117>. (115)
- Sorrentino, I.; Stanzione, I.; Nedellec, Y.; Piscitelli, A.; Giardina, P.; Le Goff, A. From Graphite to Laccase Biofunctionalized Few-Layer Graphene: A “One Pot” Approach Using a Chimeric Enzyme. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* **2020**, *21* (11). <https://doi.org/10.3390/ijms21113741>. (116)
- Straistari, T.; Morozan, A.; Shova, S.; Reglier, M.; Orio, M.; Artero, V. Catalytic Reduction of Oxygen by a Copper Thiosemicarbazone Complex. *EUROPEAN JOURNAL OF INORGANIC CHEMISTRY* **2020**, *2020* (48), 4549–4555. <https://doi.org/10.1002/ejic.202000869>. (117)

- Suarez, V. T.; Karepina, E.; Chevallet, M.; Gallet, B.; Cottet-Rousselle, C.; Charbonnier, P.; Moriscot, C.; Michaud-Soret, I.; Bal, W.; Fuchs, A.; Tucoulou, R.; Jouneau, P.-H.; Veronesi, G.; Deniaud, A. Nuclear Translocation of Silver Ions and Hepatocyte Nuclear Receptor Impairment upon Exposure to Silver Nanoparticles. *ENVIRONMENTAL SCIENCE-NANO* **2020**, *7* (5), 1373–1387. <https://doi.org/10.1039/c9en01348b>. (118)
- Sucec, I.; Wang, Y.; Dakhlaoui, O.; Weinhaupl, K.; Jores, T.; Costa, D.; Hessel, A.; Brennich, M.; Rapaport, D.; Lindorff-Larsen, K.; Bersch, B.; Schanda, P. Structural Basis of Client Specificity in Mitochondrial Membrane-Protein Chaperones. *SCIENCE ADVANCES* **2020**, *6* (51). <https://doi.org/10.1126/sciadv.abd0263>. (119)
- Taipakova, S.; Kuanbay, A.; Saint-Pierre, C.; Gasparutto, D.; Baiken, Y.; Groisman, R.; Ishchenko, A. A.; Sapparbaev, M.; Bissenbaev, A. K. The Arabidopsis Thaliana Poly(ADP-Ribose) Polymerases 1 and 2 Modify DNA by ADP-Ribosylating Terminal Phosphate Residues. *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY* **2020**, *8*. <https://doi.org/10.3389/fcell.2020.606596>. (120)
- Tapia, C.; Bellet-Amalric, E.; Aldakov, D.; Boudoire, F.; Sivula, K.; Cagnon, L.; Artero, V. Achieving Visible Light-Driven Hydrogen Evolution at Positive Bias with a Hybrid Copper-Iron Oxide/TiO<sub>2</sub>-Cobaloxime Photocathode. *GREEN CHEMISTRY* **2020**, *22* (10), 3141–3149. <https://doi.org/10.1039/d0gc00979b>. (121)
- Tetreau, G.; Banneville, A.-S.; Andreeva, E. A.; Brewster, A. S.; Hunter, M. S.; Sierra, R. G.; Teulon, J.-M.; Young, I. D.; Burke, N.; Grunewald, T. A.; Beaudouin, J.; Snigireva, I.; Fernandez-Luna, M. T.; Burt, A.; Park, H.-W.; Signor, L.; Bafna, J. A.; Sadir, R.; Fenel, D.; Boeri-Erba, E.; Bacia, M.; Zala, N.; Laporte, F.; Despres, L.; Weik, M.; Boutet, S.; Rosenthal, M.; Coquelle, N.; Burghammer, M.; Cascio, D.; Sawaya, M. R.; Winterhalter, M.; Gratton, E.; Gutsche, I.; Federici, B.; Pellequer, J.-L.; Sauter, N. K.; Colletier, J.-P. Serial Femtosecond Crystallography on in Vivo-Grown Crystals Drives Elucidation of Mosquitocidal Cyt1Aa Bioactivation Cascade. *NATURE COMMUNICATIONS* **2020**, *11* (1). <https://doi.org/10.1038/s41467-020-14894-w>. (122)
- Tezgel, O.; DiStasio, N.; Laghezza-Masci, V.; Taddei, A.-R.; Szarpak-Jankowska, A.; Auzely-Velty, R.; Navarro, F. P.; Texier, I. Collagen Scaffold-Mediated Delivery of NLC/SiRNA as Wound Healing Materials. *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY* **2020**, *55*. <https://doi.org/10.1016/j.jddst.2019.101421>. (123)
- Toerner, R.; Awad, R.; Gans, P.; Brutscher, B.; Boisbouvier, J. Spectral Editing of Intra- and Inter-Chain Methyl-Methyl NOEs in Protein Complexes. *JOURNAL OF BIOMOLECULAR NMR* **2020**, *74* (1), 83–94. <https://doi.org/10.1007/s10858-019-00293-x>. (124)
- Tomas-Mendivil, E.; Devillard, M.; Regnier, V.; Pecaut, J.; Martin, D. Air-Stable Oxyallyl Patterns and a Switchable N-Heterocyclic Carbene. *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*. <https://doi.org/10.1002/anie.202002669>. (125)
- Torres, A.; Dalzon, B.; Collin-Faure, V.; Diemer, H.; Fenel, D.; Schoehn, G.; Cianferani, S.; Carriere, M.; Rabilloud, T. How Reversible Are the Effects of Fumed Silica on Macrophages? A Proteomics-Informed View. *NANOMATERIALS* **2020**, *10* (10). <https://doi.org/10.3390/nano10101939>. (126)

- Toth, S.; Szepesi, A.; Tran-Nguyen, V.-K.; Sarkadi, B.; Nemet, K.; Falson, P.; Di Pietro, A.; Szakacs, G.; Boumendjel, A. Synthesis and Anticancer Cytotoxicity of Azaaurones Overcoming Multidrug Resistance. *MOLECULES* **2020**, *25* (3).  
<https://doi.org/10.3390/molecules25030764>. (127)
- Truskina, J.; Han, J.; Chrysanthou, E.; Galvan-Ampudia, C. S.; Laine, S.; Brunoud, G.; Mace, J.; Bellows, S.; Legrand, J.; Bagman, A.-M.; Smit, M. E.; Smetana, O.; Stigliani, A.; Porco, S.; Bennett, M. J.; Mahonen, 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-U208. <https://doi.org/10.1038/s41586-020-2940-2>. (128)
- Uroda, T.; Chillon, I.; Annibale, P.; Teulon, J.-M.; Pessey, O.; Karupphasamy, M.; Pellequer, J.-L.; Marcia, M. Visualizing the Functional 3D Shape and Topography of Long Noncoding RNAs by Single-Particle Atomic Force Microscopy and in-Solution Hydrodynamic Techniques. *NATURE PROTOCOLS* **2020**, *15* (6), 2107–2139.  
<https://doi.org/10.1038/s41596-020-0323-7>. (129)
- Vallejo-Perez, M.; Ternon, C.; Spinelli, N.; Morisot, F.; Theodorou, C.; Jayakumar, G.; Hellstrom, P.-E.; Mouis, M.; Rapenne, L.; Mescot, X.; Salem, B.; Stambouli, V. Optimization of GOPS-Based Functionalization Process and Impact of Aptamer Grafting on the Si Nanonet FET Electrical Properties as First Steps towards Thrombin Electrical Detection. *NANOMATERIALS* **2020**, *10* (9). <https://doi.org/10.3390/nano10091842>. (130)
- Vassal-Stermann, E.; Hutin, S.; Fender, P.; Burmeister, W. P. Intermediate-Resolution Crystal Structure of the Human Adenovirus B Serotype 3 Fibre Knob in Complex with the EC2-EC3 Fragment of Desmoglein 2. *ACTA CRYSTALLOGRAPHICA SECTION F-STRUCTURAL BIOLOGY COMMUNICATIONS* **2019**, *75* (12), 750–757.  
<https://doi.org/10.1107/S2053230X19015784>. (131)
- Vauclare, P.; Natali, F.; Kleman, J. P.; Zaccai, G.; Franzetti, B. Surviving Salt Fluctuations: Stress and Recovery in Halobacterium Salinarum, an Extreme Halophilic Archaeon. *SCIENTIFIC REPORTS* **2020**, *10* (1). <https://doi.org/10.1038/s41598-020-59681-1>. (132)
- Viciano-Chumillas, M.; Blondin, G.; Clemancey, M.; Krzystek, J.; Ozerov, M.; Armentano, D.; Schnegg, A.; Lohmiller, T.; Telser, J.; Lloret, F.; Cano, J. Single-Ion Magnetic Behaviour in an Iron(III) Porphyrin Complex: A Dichotomy Between High Spin and 5/2-3/2 Spin Admixture. *CHEMISTRY-A EUROPEAN JOURNAL* **2020**, *26* (62), 14242–14251.  
<https://doi.org/10.1002/chem.202003052>. (133)
- Vignon, A.; Flaget, A.; Michelas, M.; Djeghdir, M.; Defrancq, E.; Coche-Guerente, L.; Spinelli, N.; Van der Heyden, A.; Dejeu, J. Direct Detection of Low-Molecular-Weight Compounds in 2D and 3D Aptasensors by Biolayer Interferometry. *ACS SENSORS* **2020**, *5* (8), 2326–2330. <https://doi.org/10.1021/acssensors.0c00925>. (134)
- Vindas, K.; Buhot, A.; Livache, T.; Garrigue, P.; Sojic, N.; Leroy, L.; Engel, E. Enhancing the Sensitivity of Plasmonic Optical Fiber Sensors by Analyzing the Distribution of the Optical Modes Intensity. *OPTICS EXPRESS* **2020**, *28* (20), 28740–28749.  
<https://doi.org/10.1364/OE.399856>. (135)

- Voci, S.; Ismail, A.; Pham, P.; Yu, J.; Maziz, A.; Mesnilgrete, F.; Reynaud, L.; Livache, T.; Mailley, P.; Buhot, A.; Leichle, T.; Kuhn, A.; Leroy, L.; Bouchet-Spinelli, A.; Sojic, N. Wireless Enhanced Electrochemiluminescence at a Bipolar Microelectrode in a Solid-State Micropore. *JOURNAL OF THE ELECTROCHEMICAL SOCIETY* **2020**, *167* (13). <https://doi.org/10.1149/1945-7111/abbbc1>. (136)
- Wagemans, J.; Tsonos, J.; Holtappels, D.; Fortuna, K.; Hernalsteens, J.-P.; De Greve, H.; Estrozi, L. F.; Bacia-Verloop, M.; Moriscot, C.; Noben, J.-P.; Schoehn, G.; Lavigne, R. Structural Analysis of Jumbo Coliphage PhAPEC6. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* **2020**, *21* (9). <https://doi.org/10.3390/ijms21093119>. (137)
- Wandzik, J. M.; Kouba, T.; Karuppasamy, M.; Pflug, A.; Drncova, P.; Provaznik, J.; Azevedo, N.; Cusack, S. A Structure-Based Model for the Complete Transcription Cycle of Influenza Polymerase. *CELL* **2020**, *181* (4), 877+. <https://doi.org/10.1016/j.cell.2020.03.061>. (138)
- Wang, L.; Gennari, M.; Barrozo, A.; Fize, J.; Philouze, C.; Demeshko, S.; Meyer, F.; Orio, M.; Artero, V.; Duboc, C. Role of the Metal Ion in Bio-Inspired Hydrogenase Models: Investigation of a Homodinuclear FeFe Complex vs Its Heterodinuclear NiFe Analogue. *ACS CATALYSIS* **2020**, *10* (1), 177–186. <https://doi.org/10.1021/acscatal.9b03212>. (139)
- Wang, L.; Gennari, M.; Reinhard, F. G. C.; Padamati, S. K.; Philouze, C.; Flot, D.; Demeshko, S.; Browne, W. R.; Meyer, F.; de Visser, S. P.; Duboc, C. O<sub>2</sub> Activation by Non-Heme Thiolate-Based Dinuclear Fe Complexes. *INORGANIC CHEMISTRY* **2020**, *59* (5), 3249–3259. <https://doi.org/10.1021/acs.inorgchem.9b03633>. (140)
- Weynand, J.; Moreno-Betancourt, A.; Loiseau, F.; Berthet, N.; Defrancq, E.; Elias, B. Redox-Active Bis-Cyclometalated Iridium(III) Complex as a DNA Photo-Cleaving Agent. *INORGANIC CHEMISTRY* **2020**, *59* (4), 2426–2433. <https://doi.org/10.1021/acs.inorgchem.9b03312>. (141)
- Wicker-Planquart, C.; Dufour, S.; Tacnet-Delorme, P.; Bally, I.; Delneste, Y.; Frachet, P.; Housset, D.; Thielens, N. M. Molecular and Cellular Interactions of Scavenger Receptor SR-F1 With Complement C1q Provide Insights Into Its Role in the Clearance of Apoptotic Cells. *FRONTIERS IN IMMUNOLOGY* **2020**, *11*. <https://doi.org/10.3389/fimmu.2020.00544>. (142)
- Youssef-Saliba, S.; Vallee, Y. Organo-Halogens and Their Possible Involvement in Prebiotic Chemistry. *CURRENT ORGANIC CHEMISTRY* **2020**, *24* (7), 774–784. <https://doi.org/10.2174/1385272824999200420074204>. (143)
- Yu, Z.; Musnier, B.; Wegner, K. D.; Henry, M.; Chovelon, B.; Desroches-Castan, A.; Fertin, A.; Resch-Genger, U.; Bailly, S.; Coll, J.-L.; Usson, Y.; Jossierand, V.; Le Guevel, X. High-Resolution Shortwave Infrared Imaging of Vascular Disorders Using Gold Nanoclusters. *ACS NANO* **2020**, *14* (4), 4973–4981. <https://doi.org/10.1021/acsnano.0c01174>. (144)
- Zabelskii, D.; Alekseev, A.; Kovalev, K.; Rankovic, V.; Balandin, T.; Soloviov, D.; Bratanov, D.; Savelyeva, E.; Podolyak, E.; Volkov, D.; Vaganova, S.; Astashkin, R.; Chizhov, I.; Yutin, N.; Rulev, M.; Popov, A.; Eria-Oliveira, A.-S.; Rokitskaya, T.; Mager, T.; Antonenko, Y.; Rosselli, R.; Armeev, G.; Shaitan, K.; Vivaudou, M.; Buldt, G.; Rogachev, A.; Rodriguez-Valera, F.; Kirpichnikov, M.; Moser, T.; Offenhaeusser, A.; Willbold, D.; Koonin, E.; Bamberg, E.; Gordeliy, V. Viral Rhodopsins 1 Are an Unique Family of Light-Gated Cation

Channels. *NATURE COMMUNICATIONS* **2020**, *11* (1). <https://doi.org/10.1038/s41467-020-19457-7>.

(145)

Zahorska, E.; Kuhaudomlarp, S.; Minervini, S.; Yousaf, S.; Lepsik, M.; Kinsinger, T.; Hirsch, A. K. H.; Imberty, A.; Titz, A. A Rapid Synthesis of Low-Nanomolar Divalent LecA Inhibitors in Four Linear Steps Fromd-Galactose Pentaacetate. *CHEMICAL COMMUNICATIONS* **2020**, *56* (62), 8822–8825. <https://doi.org/10.1039/d0cc03490h>.

(146)

Zarkadas, E.; Zhang, H.; Cai, W.; Effantin, G.; Perot, J.; Neyton, J.; Chipot, C.; Schoehn, G.; Dehez, F.; Nury, H. The Binding of Palonosetron and Other Antiemetic Drugs to the Serotonin 5-HT<sub>3</sub> Receptor. *STRUCTURE* **2020**, *28* (10), 1131+. <https://doi.org/10.1016/j.str.2020.07.004>.

(147)

Zarkadas, E.; Zhang, H.; Cai, W.; Effantin, G.; Perot, J.; Neyton, J.; Chipot, C.; Schoehn, G.; Dehez, F.; Nury, H. The Binding of Palonosetron and Other Antiemetic Drugs to the Serotonin 5-HT<sub>3</sub> Receptor. *STRUCTURE* **2020**, *28* (10), 1131+. <https://doi.org/10.1016/j.str.2020.07.004>.