

# Publications issues de travaux réalisés dans la plateforme BIOMASSE ET INGENIERIE DES PROTEINES

## 2024

Bizet, M., Byrne, D., Biaso, F., Gerbaud, G., Etienne, E., Briola, G., ... & Martinho, M. (2024). Structural insights into the semiquinone form of human Cytochrome P450 reductase by DEER distance measurements between a native flavin and a spin labelled non-canonical amino acid. *Chemistry—A European Journal*, e202304307. <https://doi.org/10.1002/chem.202304307>

## Acknowledgement

Kyрpel, T., Saska, V., de Pouliquet, A., Luglia, M., Soric, A., Roger, M., ... & Mazurenko, I. (2023). Hydrogenase-based electrode for hydrogen sensing in a fermentation bioreactor. *Biosensors and Bioelectronics*, 225, 115106.

Marbehan, X., Roger, M., Fournier, F., Infossi, P., Guedon, E., Delecourt, L., ... & Delaunay, S. (2024). Combining metabolic flux analysis with proteomics to shed light on the metabolic flexibility: the case of *Desulfovibrio vulgaris* Hildenborough. *Frontiers in Microbiology*, 15, 1336360.

Poli, J. P., Boyeldieu, A., Lutz, A., Vigneron-Bouquet, A., Ali Chaouche, A., Giudici-Orticoni, M. T., ... & Jourlin-Castelli, C. (2024). BpfD Is a c-di-GMP Effector Protein Playing a Key Role for Pellicle Biosynthesis in *Shewanella oneidensis*. *International Journal of Molecular Sciences*, 25(17), 9697.

## 2023

Villalta, A., Srour, B., Lartigue, A., Clémancey, M., Byrne, D., Chaspoul, F., ... & Burlat, B. (2023). Evidence for [2Fe-2S] 2+ and Linear [3Fe-4S] 1+ Clusters in a Unique Family of Glycine/Cysteine-Rich Fe-S Proteins from Megavirinae Giant Viruses. *Journal of the American Chemical Society*, 145(5), 2733-2738.

Prioretti, L., D'Ermo, G., Infossi, P., Kpebe, A., Lebrun, R., **Bauzan, M.**, ... & Guiral, M. (2023). Carbon fixation in the chemolithoautotrophic bacterium *aquifex aeolicus* involves two low-potential ferredoxins as partners of the PFOR and OGOR enzymes. *Life*, 13(3), 627. <https://doi.org/10.3390/life13030627>

Weber, L., Gilat, A., Maillot, N., Byrne, D., Arnoux, P., Giudici-Orticoni, M. T., ... & Dementin, S. (2023). Bacterial adaptation to cold : Conservation of a short J-domain co-chaperone and its protein partners in environmental proteobacteria. *Environmental Microbiology*.

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Guiraud, P., Germain, E., Byrne, D., & Maisonneuve, E. (2023). The YmgB-SpoT interaction triggers the stringent response in *Escherichia coli*. *Journal of Biological Chemistry*, 299(12). <https://doi.org/10.1016/j.jbc.2023.105429>

## Acknowledgement

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Pierro, A., Tamburrini, K. C., Leguenno, H., Gerbaud, G., Etienne, E., Guigliarelli, B., ... & Mileo, E. (2023). In-cell investigation of the conformational landscape of the GTPase UreG by SDSL-EPR. *Iscience*, 26(10). <https://doi.org/10.1016/j.isci.2023.107855>

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Bizet, M., Byrne, D., Gerbaud, G., Biaso, F., Dorlet, P., Urban, P., ... & Martinho, M. (2022). Study of human Cytochrome P450 reductase by Electron Paramagnetic Resonance. *Biochimica biophysica acta (BBA)-Bioenergetics*, 1863, 148752.

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Nian Liu, Séverine Gagnot, Yann Denis, Deborah Byrne, Craig Fauld, Henri Pierre Fierobe and Stéphanie Perret \*Selfish uptake versus extracellular arabinoxylan degradation in the primary degrader *Ruminiclostridium cellulolyticum*, a new string to its bow. *Biotechnology for Biofuels and Bioproducts*.

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## **2021**

Cherrak, Y. & Filella-Merce, I. & Schmidt, V. & Byrne, D. & Sgoluppi, V. & Chaiaheloudjou, R. & Betzi, Stephane & Morelli, X. & Nilges, M. & Pellarin, Riccardo & Durand, E.. (2021). Inhibiting Type VI Secretion System Activity with a Biomimetic Peptide Designed To Target the Baseplate Wedge Complex. mBio. 12. 10.1128/mBio.01348-21.

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## **2020**

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Szyttenholm, J., Chaspoul, F., Bauzan, M., Ducluzeau, A. L., Chehade, M. H., Pierrel, F., ... & SchoeppCothenet, B. (2020). The controversy on the ancestral arsenite oxidizing enzyme; deducing evolutionary histories with phylogeny and thermodynamics. Biochimica et Biophysica Acta (BBA)-Bioenergetics, 1861(10), 148252.

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