

2025 Coauteur

[Functional coupling between DnaK and bacterial RNA polymerase through a dedicated J-domain protein system.](#)

Boussouar S, Chaouche AA, **Denis Y**, Genest O, Dementin S. J Mol Biol. 2025 Nov 1;169529. doi: 10.1016/j.jmb.2025.169529. Online ahead of print. PMID: 41183769

[Unveiling Crocosphaera Responses to Phosphorus Depletion: Insights From Genome Analysis and Functional Characterization.](#)

Caille C, Rabouille S, Ortega-Retuerta E, **Denis Y**, Crispi O, Marie B, Pujo-Pay M, Daric V, Talla E, Latifi A. Environ Microbiol. 2025 Jul;27(7):e70153. doi: 10.1111/1462-2920.70153. PMID: 40660640

[Fatty acid metabolism and the oxidative stress response support bacterial predation.](#)

Jain R, Le NH, Bertaux L, Baudry J, Bibette J, **Denis Y**, Habermann BH, Mignot T. Proc Natl Acad Sci U S A. 2025 Feb 4;122(5):e2420875122. doi: 10.1073/pnas.2420875122. Epub 2025 Jan 27. PMID: 39869799

2025 Remerciement

[RagB stimulates the activity of the peptidoglycan polymerase RodA in Bacillus subtilis.](#)

Pompeo F, Foulquier E, Chastanet A, Espinosa L, Billaudeau C, Rodrigues A, Cornilleau C, Carballido-López R, **Galinier A**. EMBO Rep. 2025 Aug 15. doi: 10.1038/s44319-025-00547-w. Online ahead of print. PMID: 40817173

2024 Coauteur

[Cyclophostin and Cyclipostins analogues counteract macrolide-induced resistance mediated by erm\(41\) in Mycobacterium abscessus.](#)

Sarrazin M, Poncin I, Fourquet P, Audebert S, Camoin L, **Denis Y**, Santucci P, Spilling CD, Kremer L, Moigne VL, Herrmann JL, Cavalier JF, Canaan S. J Biomed Sci. 2024 Dec 3;31(1):103. doi: 10.1186/s12929-024-01091-w. PMID: 39623375

Diversity and dynamics of bacteria from iron-rich microbial mats and colonizers in the Mediterranean Sea (EMSO-Western Ligurian Sea Observatory): Focus on Zetaproteobacteria. Astorch-Cardona A, Bertaux L, Denis Y, Dolla A, Rommevaux C. PLoS One. 2024 Jul 15;19(7):e0305626. doi: 10.1371/journal.pone.0305626. eCollection 2024. PMID: 39008445

Intracellular removal of acetyl, feruloyl and p-coumaroyl decorations on arabinoxylo-oligosaccharides imported from lignocellulosic biomass degradation by Ruminiclostridium cellulolyticum.

Liu N, Odinot E, David H, Vita N, Otalvaro FM, Parsiegla G, Denis Y, Faulds C, Fierobe HP, Perret S. Microb Cell Fact. 2024 May 24;23(1):151. doi: 10.1186/s12934-024-02423-z. PMID: 38789996

2023 Coauteur

Role of the Solute-Binding Protein CuaD in the Signaling and Regulating Pathway of Cellobiose and Cellulose Utilization in *Ruminiclostridium cellulolyticum*.

Fosses A, Franche N, Parsiegla G, Denis Y, Maté M, de Philip P, Fierobe HP, Perret S. *Microorganisms*. 2023 Jul 1;11(7):1732. doi: 10.3390/microorganisms11071732. PMID: 37512904

Adaptation Strategies to High Hydrostatic Pressures in *Pseudothermotoga* species Revealed by Transcriptional Analyses.

Fenouil R, Pradel N, Belahbib H, Roumagnac M, Bartoli M, Ben Hania W, **Denis Y**, Garel M, Tamburini C, Ollivier B, Summers Z, Armougom F, Dolla A. *Microorganisms*. 2023 Mar 17;11(3):773. doi: 10.3390/microorganisms11030773. PMID: 36985346

The prophage-encoded transcriptional regulator AppY has pleiotropic effects on *E. coli* physiology.

Derdouri N, Ginot N, Denis Y, Ansaldi M, Battesti A. *PLoS Genet*. 2023 Mar 17;19(3):e1010672. doi: 10.1371/journal.pgen.1010672. eCollection 2023 Mar. PMID: 36930675

A Diverged Transcriptional Network for Usage of Two Fe-S Cluster Biogenesis Machineries in the Delta-Proteobacterium *Myxococcus xanthus*.

Sourice M, Askenasy I, Garcia PS, Denis Y, Brasseur G, Kiley PJ, Py B, Aubert C. *mBio*. 2023 Feb 28;14(1):e0300122. doi: 10.1128/mbio.03001-22. Epub 2023 Jan 19. PMID: 36656032

2023 Remerciements

An essential role of the reversible electron-bifurcating hydrogenase Hnd for ethanol oxidation in *Solidesulfovibrio fructosivorans*.

Kpebe A, Guendon C, Payne N, Ros J, Khelil Berbar M, Lebrun R, Baffert C, Shintu L, Brugna M. *Front Microbiol*. 2023 Mar 27;14:1139276. doi: 10.3389/fmicb.2023.1139276. eCollection 2023. PMID: 37051519

[*Salmonella* Typhimurium uses the Cpx stress response to detect N-chlorotaurine and promote the repair of oxidized proteins.](#)

Andrieu C, Loiseau L, Vergnes A, Gagnot S, Barré R, Aussel L, Collet JF, **Ezraty B**. *Proc Natl Acad Sci U S A*. 2023 Apr 4;120(14):e2215997120. doi: 10.1073/pnas.2215997120. Epub 2023 Mar 28. PMID: 36976766

Evolution of giant pandoravirus revealed by CRISPR/Cas9.

Bisio H, Legendre M, Giry C, Philippe N, Alempic JM, Jeudy S, Abergel C. *Nat Commun*. 2023 Jan 26;14(1):428. doi: 10.1038/s41467-023-36145-4. PMID: 36702819

Poster

JSM3 10 au 12 Mai 2023 Marseille

Quantification of FeOB Zetaproteobacteria genomes at low abundance in a complex Deep sea environnement by digital PCR

Aina Astorch-Cardona¹, Lionel Bertaux², Yann Denis³, Alain Dolla¹, Céline Rommevaux¹

JSM3 10 au 12 Mai 2023 Marseille

2022 Coauteur

Selfish uptake versus extracellular arabinoxylan degradation in the primary degrader *Ruminiclostridium cellulolyticum*, a new string to its bow.

Liu N, Gagnot S, **Denis Y**, Byrne D, Faulds C, Fierobe HP, Perret S. *Biotechnol Biofuels Bioprod.* 2022 Nov 19;15(1):127. doi: 10.1186/s13068-022-02225-8. PMID: 36403068

Genetic Mining of Newly Isolated Salmophages for Phage Therapy.

Gendre J, Ansaldi M, Olivenza DR, **Denis Y**, Casadesús J, Ginet N. *Int J Mol Sci.* 2022 Aug 10;23(16):8917. doi: 10.3390/ijms23168917.

Periplasmic oxidized-protein repair during copper stress in *E. coli*: A focus on the metallochaperone CusF.

Vergnes A, Henry C, Grassini G, Loiseau L, El Hajj S, **Denis Y**, Galinier A, Vertommen D, Aussel L, Ezraty B. *PLoS Genet.* 2022 Jul 11;18(7):e1010180. doi: 10.1371/journal.pgen.1010180. eCollection 2022 Jul.

Copper Induces Protein Aggregation, a Toxic Process Compensated by Molecular Chaperones.

Zuily L, Lahrach N, Fassler R, Genest O, Faller P, Sénèque O, **Denis Y**, Castanié-Cornet MP, Genevaux P, Jakob U, Reichmann D, Giudici-Orticoni MT, Ilbert M. *mBio.* 2022 Apr 26;13(2):e0325121. doi: 10.1128/mbio.03251-21. Epub 2022 Mar 15.

The noncoding RNA CcnA modulates the master cell cycle regulators CtrA and GcrA in *Caulobacter crescentus*.

Beroual W, Prévost K, Lalaouna D, Ben Zaina N, Valette O, **Denis Y**, Djendli M, Brasseur G, Brilli M, Robledo Garrido M, Jimenez-Zurdo JI, Massé E, Biondi EG. *PLoS Biol.* 2022 Feb 22;20(2):e3001528. doi: 10.1371/journal.pbio.3001528. eCollection 2022 Feb.

The electron-bifurcating FeFe-hydrogenase Hnd is involved in ethanol metabolism in *Desulfovibrio fructosovorans* grown on pyruvate.

Payne N, Kpebe A, Guendon C, Baffert C, Ros J, Lebrun R, **Denis Y**, Shintu L, Brugna M. *Mol Microbiol.* 2022 Apr;117(4):907-920. doi: 10.1111/mmi.14881. Epub 2022 Feb 8.

2022 Remerciement

HprSR is a Reactive Chlorine Species-Sensing, Two-Component System in *Escherichia coli*.
El Hajj S, Henry C, Andrieu C, Vergnes A, Loiseau L, Brasseur G, Barré R, Aussel, Ezraty B.
(2022) *J. Bacteriol.* doi: 10.1128/JB.00449-21

The differential expression of PilY1 proteins by the HsfBA phosphorelay allows twitching motility in the absence of exopolysaccharides.

Xue S, Mercier R, Guiseppi A, Kosta A, De Cegli R, Gagnot S, Mignot T, Mauriello EMF.
PLoS Genet. 2022 Apr 29;18(4):e1010188. doi: 10.1371/journal.pgen.1010188. eCollection 2022 Apr.

2021 Coauteur

Involvement of the *Pseudomonas aeruginosa* MexAB-OprM efflux pump in the secretion of the metallophore pseudopaline.

Gomez NO, Tetard A, Ouerdane L, Laffont C, Brutesco C, Ball G, Lobinski R, Denis Y, Plésiat P, Llanes C, Arnoux P, Voulhoux R. *Mol Microbiol.* 2021 Jan;115(1):84-98. doi: 10.1111/mmi.14600. Epub 2020 Sep 23

Handling Several Sugars at a Time: a Case Study of Xyloglucan Utilization by *Ruminiclostridium cellulolyticum*.

Kampik C, Liu N, Mroueh M, Franche N, Borne R, Denis Y, Gagnot S, Tardif C, Pagès S, Perret S, Vita N, de Philip P, Fierobe HP. *mBio.* 2021 Nov 9;12(6):e0220621. doi: 10.1128/mBio.02206-21.

A Novel Two-Component System, XygS/XygR, Positively Regulates Xyloglucan Degradation, Import, and Catabolism in *Ruminiclostridium cellulolyticum*.

Kampik C, Denis Y, Pagès S, Perret S, Tardif C, Fierobe HP, de Philip P. *Appl Environ Microbiol.* 2020 Oct 1;86(20):e01357-20. doi: 10.1128/AEM.01357-20. Print 2020 Oct 1.

2021 Remerciement

Novel Virulent Bacteriophages Infecting Mediterranean Isolates of the Plant Pest *Xylella fastidiosa* and *Xanthomonas albilineans*.

Fernando Clavijo-Coppens, Nicolas Ginet, Sophie Cesbron, Martial Briand, Marie-Agnès Jacques, Mireille Ansaldi. *Viruses* 2021, 13(5), 725

Combining two optimized and affordable methods to assign chemoreceptor(s) to a specific signal.

Boyeldieu A, Ali Chaouche A, Méjean V, Jourlin-Castelli C (2021) *Analytical Biochemistry.* 620:114139.

The horizontal transfer of *Pseudomonas aeruginosa* PA14 ICE PAPI-1 is controlled by a transcriptional triad between TprA, NdpA2 and MvaT.

Dangla-Pélissier G, Roux N, Schmidt V, Chambonnier G, Ba M, Sebban-Kreuzer C, de Bentzmann S, Giraud C, Bordi C. *Nucleic Acids Res.* 2021 Nov 8;49(19):10956-10974. doi: 10.1093/nar/gkab827.

Modulation of the RNA polymerase activity by AtcB, a protein associated with a DnaK chaperone network in *Shewanella oneidensis*.

Maillot NJ, Infossi P, Dementin S, Giudici-Orticoni MT, Méjean V, Genest O. *Biochem Biophys Res Commun.* 2021 Jan 8;535:66-72. doi: 10.1016/j.bbrc.2020.12.015. Epub 2020 Dec 17.

OrpR is a σ^{54} -dependent activator using an iron-sulfur cluster for redox sensing in *Desulfovibrio vulgaris* Hildenborough.

Fiévet A, Merrouch M, Brasseur G, Eve D, Biondi EG, Valette O, Pauleta SR, Dolla A, Dermoun Z, Burlat B, Aubert C. *Mol Microbiol.* 2021 Jul;116(1):231-244. doi: 10.1111/mmi.14705. Epub 2021 Feb 25.

2021 Poster

colloque "PHAGES in Roscoff"

Genetic mining of newly isolated salmophages for phage therapy.

J. Gendre¹, D.R. Olivenza², Y. Denis³, J. Casadesús², M. Ansaldi¹ and N. Ginot¹
11 et 12 Octobre 2021

2020 Coauteur

A Novel Two-Component System, XygS/XygR, Positively Regulates Xyloglucan Degradation, Import, and Catabolism in *Ruminiclostridium cellulolyticum*.

Kampik C, Denis Y, Pagès S, Perret S, Tardif C, Fierobe HP, de Philip P. *Appl Environ Microbiol.* 2020 Oct 1;86(20):e01357-20. doi: 10.1128/AEM.01357-20. Print 2020 Oct 1

The controversy on the ancestral arsenite oxidizing enzyme; deducing evolutionary histories with phylogeny and thermodynamics.

Szyttenholm J, Chaspoul F, Bauzan M, Ducluzeau AL, Chehade MH, Pierrel F, Denis Y, Nitschke W, Schoepp-Cothenet B. *Biochim Biophys Acta Bioenerg.* 2020 Oct 1;1861(10):148252. doi: 10.1016/j.bbabi.2020.148252. Epub 2020 Jun 20.

2020 Remerciement

The polar Ras-like GTPase MglA activates type IV pilus via SgmX to enable twitching motility in *Myxococcus xanthus*.

Mercier R, Bautista S, Delannoy M, Gibert M, Guiseppi A, Herrou J, Mauriello EMF, Mignot T. Proc Natl Acad Sci U S A. 2020 Nov 10;117(45):28366-28373. doi: 10.1073/pnas.2002783117. Epub 2020 Oct 22.

HetL, HetR and PatS form a reaction-diffusion system to control pattern formation in the cyanobacterium *Nostoc PCC 7120*.

Xu X, Risoul V, Byrne D, Champ S, Douzi B, Latifi A. Elife. 2020 Aug 7;9:e59190. doi: 10.7554/eLife.59190.

Uridine diphosphate N-acetylglucosamine orchestrates the interaction of GlmR with either YvcJ or GlmS in *Bacillus subtilis*.

Foulquier E, Pompeo F, Byrne D, **Fierobe HP**, Galinier A. Sci Rep. 2020 Sep 29;10(1):15938. doi: 10.1038/s41598-020-72854-2. PMID: 32994436

Overproduction of the Flv3B flavodiiron, enhances the photobiological hydrogen production by the nitrogen-fixing cyanobacterium *Nostoc PCC 7120*.

Roumezi B, Avilan L, Risoul V, Brugna M, Rabouille S, Latifi A. Microb Cell Fact. 2020 Mar 10;19(1):65. doi: 10.1186/s12934-020-01320-5.

Oxidative stress antagonizes fluoroquinolone drug sensitivity via the SoxR-SUF Fe-S cluster homeostatic axis.

Gerstel A, Zamarreño Beas J, Duverger Y, Bouveret E, Barras F, Py B. PLoS Genet. 2020 Nov 2;16(11):e1009198. doi: 10.1371/journal.pgen.1009198. eCollection 2020 Nov.

2019 Coauteur

In vitro and in vivo exploration of the cellobiose and cellodextrin phosphorylases panel in *Ruminiclostridium cellulolyticum*: implication for cellulose catabolism

Nian Liu; Aurélie Fosses; Clara Kampik; Goetz Parsiegla; Yann Denis; Nicolas Vita; Henri-Pierre Fierobe; Stephanie Perret. Biotechnology for Biofuels 2019 Sep 3;12:208. doi: 10.1186/s13068-019-1549-x. eCollection 2019

Growth of an anaerobic sulfate-reducing bacterium sustained by oxygen respiratory conservation after O₂-driven experimental evolution.

Schoeffler M, Gaudin AL, Ramel F, Valette O, Denis Y, Hania WB, Hirschler-Réa A, Dolla A. Environ Microbiol. 2019 Jan;21(1):360-373. doi: 10.1111/1462-2920.14466. Epub 2018 Dec 3.

2019 Remerciement

Cold adaptation in the environmental bacterium *Shewanella oneidensis* is controlled by a J-domain co-chaperone protein network.

Maillot NJ, Honoré FA, Byrne D, Méjean V, Genest O. Commun Biol. 2019 Aug 29;2:323. doi: 10.1038/s42003-019-0567-3. eCollection 2019.

2018 Remerciement

Environ Microbiol

Exploring the microbiome of the "star" freshwater diatom *Asterionella formosa* in a laboratory context.

Kojadinovic-Sirinelli M, Villain A, Puppo C, Fon Sing S, Prioretti L, Hubert P, Grégori G, Zhang Y, Sassi JF, Claverie JM, Blanc G, Gontero B.

Environ Microbiol. 2018 Oct;20(10):3601-3615. doi: 10.1111/1462-2920.14337. Epub 2018 Oct 10.

2017 Coauteur

A seven-gene cluster in *Ruminiclostridium cellulolyticum* is essential for signalization, uptake and catabolism of the degradation products of cellulose hydrolysis.

Fosses A, Maté M, Franche N, Liu N, Denis Y, Borne R, de Philip P, Fierobe HP, Perret S. Biotechnol Biofuels. 2017 Oct 30;10:250. doi: 10.1186/s13068-017-0933-7. eCollection 2017.

Responses of the marine diatom *Thalassiosira pseudonana* to changes in CO₂ concentration: a proteomic approach.

Clement R, Lignon S, Mansuelle P, Jensen E, Pophillat M, Lebrun R, Denis Y, Puppo C, Maberly SC, Gontero B. Sci Rep. 2017 Feb 9;7:42333. doi: 10.1038/srep42333.

2017 Remerciement

YvcK, a protein required for cell wall integrity and optimal carbon source utilization, binds uridine diphosphate-sugars.

Foulquier E, Galinier A. Sci Rep. 2017 Jun 23;7(1):4139. doi: 10.1038/s41598-017-04064-2.

2017 Poster

Genetic characterization of two siphoviridae targeting marine magnetotactic bacteria from the Mediterranean Sea

Ginet, N. Lefèvre, C.T. Denis, Y. Mercier, R. & Ansaldi, M.
colloque "PHAGES-sur-Yvette" 20 et 21 Nov 2017

Nitric oxide-driven prophage maintenance involves unsuspected activity of NorV(W) reductase

Maëlle Delannoy, Stéphanie Champ, Alice Boulanger, Yann Denis, Gaël Brasseur and Mireille Ansaldi colloque "PHAGES-sur-Yvette" 20 et 21 Nov 2017

2016 Coauteur

Insights into the Quorum Sensing Regulon of the Acidophilic *Acidithiobacillus ferrooxidans* Revealed by Transcriptomic in the Presence of an Acyl Homoserine Lactone Superagonist Analog.

Mamani S, Moinier D, Denis Y, Soullère L, Queneau Y, Talla E, Bonnefoy V, Guilianini N. *Front Microbiol.* 2016 Sep 14;7:1365. doi: 10.3389/fmicb.2016.01365. eCollection 2016.

2016 remerciement

Contribution of the Twin Arginine Translocation system to the exoproteome of *Pseudomonas aeruginosa*.

Ball G, Antelmann H, Imbert PR, Gimenez MR, Voulhoux R, Ize B. *Sci Rep.* 2016 Jun 9;6:27675. doi: 10.1038/srep27675.

Mechanisms involved in xyloglucan catabolism by the cellulosome-producing bacterium *Ruminiclostridium cellulolyticum*.

Ravachol J, de Philip P, Borne R, Mansuelle P, Maté MJ, Perret S, Fierobe HP. *Sci Rep.* 2016 Mar 7;6:22770. doi: 10.1038/srep22770.

The Hybrid Histidine Kinase LadS Forms a Multicomponent Signal Transduction System with the GacS/GacA Two-Component System in *Pseudomonas aeruginosa*.

Chambonnier G, Roux L, Redelberger D, Fadel F, Filloux A, Sivaneson M, de Bentzmann S, Bordi C. *PLoS Genet.* 2016 May 13;12(5):e1006032. doi: 10.1371/journal.pgen.1006032. eCollection 2016 May.

2016 Poster

Virus of Microbes, Liverpool

Host and prophages intertangled regulatory networks in *Enterobacteria*

Alice Boulanger*, Saran Diallo, Yann Denis, Stéphanie Champ, Aurélia Battesti, Maëlle Delannoy, and Mireille Ansaldi. *Virus of Microbes, Liverpool.* 18-22 juillet 2016

Ecole des doctorants Energies et Recherches, Roscoff.

The nature of the CO₂ concentrating mechanisms in marine diatoms

Clément R., Mansuelle P., Lignon S., Lebrun R., Denis Y., Pophillat M., Puppo C., Dimnet L., Jensen E., Maberly S.C., Gontero B. *Ecole des doctorants Energies et Recherches, Roscoff.* 16-18 Mars 2016

Coauteur 2015

BMC Genomics

The Pkn22 Ser/Thr kinase in *Nostoc* PCC 7120: role of FurA and NtcA regulators and transcript profiling under nitrogen starvation and oxidative stress.

Yingping F, Lemeille S, González A, Risoul V, Denis Y, Richaud P, Lamrabet O, Fillat MF, Zhang CC, Latifi A.

BMC Genomics. 2015 Jul 29;16:557. doi: 10.1186/s12864-015-1703-1.

Front Microbiol.

The primary pathway for lactate oxidation in *Desulfovibrio vulgaris*.

Vita N, Valette O, Brasseur G, Lignon S, Denis Y, Ansaldi M, Dolla A, Pieulle L.

Front Microbiol. 2015 Jun 26;6:606. doi: 10.3389/fmicb.2015.00606. eCollection 2015.

Remerciement 2015

Nat Commun.

Nutritional stress induces exchange of cell material and energetic coupling between bacterial species.

Benomar S, Ranava D, Cárdenas ML, Trably E, Rafrafi Y, Ducret A, Hamelin J, Lojou E, Steyer JP, Giudici-Orticoni MT.

Nat Commun. 2015 Feb 23;6:6283. doi: 10.1038/ncomms7283.

Front Microbiol.

Single-Cell Analysis of Growth and Cell Division of the Anaerobe *Desulfovibrio vulgaris* Hildenborough.

Fievet A, Ducret A, Mignot T, Valette O, Robert L, Pardoux R, Dolla AR, Aubert C.

Front Microbiol. 2015 Dec 8;6:1378. doi: 10.3389/fmicb.2015.01378. eCollection 2015.

Co Auteur 2014

Environ Microbiol Rep

Unravelling the cross-talk between iron starvation and oxidative stress responses highlights the key role of PerR (alr0957) in peroxide signalling in the cyanobacterium *Nostoc* PCC 7120.

Yingping F, Lemeille S, Talla E, Janicki A, Denis Y, Zhang CC, Latifi A.

Environ Microbiol Rep. 2014 Oct;6(5):468-75.

Environ Sci Pollut Res Int.

Effects of a sulfonylurea herbicide on the soil bacterial community.

Arabet D, Tempel S, Fons M, Denis Y, Jourlin-Castelli C, Armitano J, Redelberger D, Iobbi-Nivol C, Boulahrouf A, Méjean V.

Environ Sci Pollut Res Int. 2014 Apr;21(8):5619-27. doi: 10.1007/s11356-014-2512-9. Epub 2014 Jan 14.

Remerciement 2014

PLoS One.

IHF is required for the transcriptional regulation of the *Desulfovibrio vulgaris* Hildenborough *orp* operons.

Fiévet A, Cascales E, Valette O, Dolla A, Aubert C.

PLoS One. 2014 Jan 21;9(1):e86507. doi: 10.1371/journal.pone.0086507. eCollection 2014.

Co auteur 2013

PLoS One.

The first genomic and proteomic characterization of a deep-sea sulfate reducer: insights into the piezophilic lifestyle of *Desulfovibrio piezophilus*.

Pradel N, Ji B, Gimenez G, Talla E, Lenoble P, Garel M, Tamburini C, Fourquet P, Lebrun R, Bertin P, Denis Y, Pophillat M, Barbe V, Ollivier B, Dolla A.

PLoS One. 2013;8(1):e55130. doi: 10.1371/journal.pone.0055130. Epub 2013 Jan 30.

Appl Environ Microbiol.

Anaerobic sulfur metabolism coupled to dissimilatory iron reduction in the extremophile *Acidithiobacillus ferrooxidans*.

Osorio H, Mangold S, Denis Y, Ñancucheo I, Esparza M, Johnson DB, Bonnefoy V, Dopson M, Holmes DS.

Appl Environ Microbiol. 2013 Apr;79(7):2172-81. doi: 10.1128/AEM.03057-12. Epub 2013 Jan 25.

J Biol Chem.

The sulfur carrier protein TusA has a pleiotropic role in *Escherichia coli* that also affects molybdenum cofactor biosynthesis.

Dahl JU, Radon C, Bühning M, Nimtz M, Leichert LI, Denis Y, Jourlin-Castelli C, Iobbi-Nivol C, Méjean V, Leimkühler S.

J Biol Chem. 2013 Feb 22;288(8):5426-42. doi: 10.1074/jbc.M112.431569. Epub 2013 Jan 1.

Remerciement 2013

PLoS One.

A two-component system (XydS/R) controls the expression of genes encoding CBM6-containing proteins in response to straw in *Clostridium cellulolyticum*.

Celik H, Blouzard JC, Voigt B, Becher D, Trotter V, Fierobe HP, Tardif C, Pagès S, de Philip P.

PLoS One. 2013;8(2):e56063. doi: 10.1371/journal.pone.0056063. Epub 2013 Feb 13.

PLoS One.

Regulation of cel genes of *C. cellulolyticum*: identification of GlyR2, a transcriptional regulator regulating cel5D gene expression.

Fendri I, Abdou L, Trotter V, Dedieu L, Maamar H, Minton NP, Tardif C.

PLoS One. 2013;8(1):e44708. doi: 10.1371/journal.pone.0044708. Epub 2013 Jan 22.

Extremophiles

Organization and regulation of the arsenite oxidase operon of the moderately acidophilic and facultative chemoautotrophic *Thiomonas arsenitoxydans*.

Slyemi D, Moinier D, Talla E, Bonnefoy V.

Extremophiles. 2013 Nov;17(6):911-20. doi: 10.1007/s00792-013-0573-1. Epub 2013 Aug 24.

Co auteur 2012

Plasmid

Development of a genetic tool for activating chromosomal expression of cryptic or tightly regulated loci in *Pseudomonas aeruginosa*.

Spagnolo J, Bigot S, Denis Y, Bordi C, de Bentzmann S.

Plasmid. 2012 May;67(3):245-51. doi: 10.1016/j.plasmid.2011.12.006. Epub 2011 Dec 26.

Remerciement 2012

Biochimie

Drastic changes in the tissue-specific expression of secreted phospholipases A2 in chicken pulmonary disease.

Karray A, Ben Ali Y, Boujelben J, Amara S, Carrière F, Gargouri Y, Bezzine S.

Biochimie. 2012 Feb;94(2):451-60. doi: 10.1016/j.biochi.2011.08.013. Epub 2011 Aug 30.

PLoS Pathog

Unique biofilm signature, drug susceptibility and decreased virulence in *Drosophila* through the *Pseudomonas aeruginosa* two-component system PprAB.

de Bentzmann S, Giraud C, Bernard CS, Calderon V, Ewald F, Plésiat P, Nguyen C, Grunwald D, Attree I, Jeannot K, Fauvarque MO, Bordi C.

PLoS Pathog. 2012;8(11):e1003052. doi: 10.1371/journal.ppat.1003052. Epub 2012 Nov 29. Erratum in: PLoS Pathog. 2012 Dec;8(12). doi: 10.1371/annotation/5c169544-7d19-40db-9a58-28b2fdf2c82c.

2011 Brevet

SEM, CNRS

Procédé de quantification de bactéries vivantes dans un milieu liquide. V. Mejean, F. Raptelet, Y. Denis, S.A. Labed, G. Lieutaud, G. Leger. SEM, CNRS. N° : 1153336

2011 Remerciement

J Bacteriol

The anaerobe-specific orange protein complex of *Desulfovibrio vulgaris* hildenborough is encoded by two divergent operons coregulated by σ_{54} and a cognate transcriptional regulator.

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