

Afin de faciliter la lecture, les publications dont je suis responsable sont indiquées en bleu, et les noms des post-doctorants/doctorants/stagiaires M2 encadrés sont en gras.

2023-2013: période d'évaluation

53. *Inhibition by pesticides of the DJ-1/Park7 protein related to Parkinson disease.*
Mathas N., Poncet G., Laurent C., Larigot L., Le-Grand B., Gonis E., Birman S., Galardon E., Sari M-A., Tiouaini M., Nioche P., Barouki R., Mansuy D., Dairou J.
Toxicology **2023**, 10.1016/j.tox.2023.153467
52. *Persulfidation of DJ-1 : Mechanism and Consequences.*
Galardon E.,* **Mathas N.**, Padovani D., Le Corre L., Poncet G., Dairou J.
Biomolecules **2023**, 13(1), 27 doi.org/10.3390/biom13010027
51. *Polysulfides derived from the hydrogen sulfide and persulfide donor P* inhibit IL-1 β -mediated inducible nitric oxide synthase signaling in ATDC5 cells.*
Trummer M., Galardon E., Mayer B., Steiner G., Stamm T., Kloesch B.
Nitric Oxide **2022**, 129, 41. doi.org/10.1016/j.niox.2022.09.005
50. *Molecular Basis for the Interaction of Catalase with D-Penicillamine : Rationalization of some of its deleterious effects.*
D. Padovani, E. Galardon
Chem. Res. Toxicol. **2022**, 35, 412. doi.org/10.1021/acs.chemrestox.1c00313
49. *Characterization of the inducible and slow-releasing hydrogen sulfide and persulfide donor P*: insights into hydrogen sulfide signaling*
M. Trummer, E. Galardon, A. Fischer, S. Toegel, B-M. Mayer, G. Steiner, B. Kloesch
Antioxidants, **2021**, 10(7), 1049. doi: 10.3390/antiox10071049
48. *Efficient C3-alkylsulfenylation of indoles under mild conditions using Lewis acid-activated 8-quinolinethiosulfonates.*
E. Galardon*
Tetrahedron Lett., **2021**, 65, 152748. doi.org/10.1016/j.tetlet.2020.152748
47. *Opposing effects of polysulfides and thioredoxin on apoptosis through caspase persulfidation.*
I. Braunstein, R. Engelman, O. Yitzhaki, T. Ziv, E. Galardon, M. Benhar
J. Biol. Chem., **2020**, 295, 11, 3590 doi: 10.1074/jbc.RA119.01235
46. *An optical H₂S biosensor based on the chemoselective Hb-I protein tethered to a transparent, high surface area nanocolumnar electrode.*
M. Dulac, A. Melet, K. D. Harris, B. Limoges, E. Galardon,* V. Balland*
Sens. Actuator B-Chem., **2019**, 290, 326-335
45. *Reversible Detection and Quantification of Hydrogen Sulfide by Fluorescence using the Hemoglobin I from Lucina Pectinata.*
M. Dulac, A. Melet, E. Galardon*
ACS Sens, **2018**, 3 (10), 2138–2144

44. *Synthesis, characterization and reactivity of 3-mercaptopyruvic acid.*
J.C. Lec, E. Galardon*
ChemBiochem, **2018**, (19), 1702-1705
43. *Reactions of persulfides with the heme cofactor of oxidized myoglobin and microperoxidase II: reduction or coordination.*
E. Galardon,* F. Huguet, C. Herrero, R. Ricoux, I. Artaud and D. Padovani
Dalton Trans, **2017**, 46, 7939 – 7946
42. *Synthesis and anti-proliferative activities of ruthenium complexes containing the hydrogen sulfide-releasing ligand GYY4137*
A. Leverrier, M. Hilf, F. Raynaud, P. Deschamps, P. Roussel, A. Tomas, E. Galardon*
J. Organomet. Chem., **2017**, (843), 26-31
41. *Sulfheme formation during homocysteine S-oxygenation by catalase in cancers and neurodegenerative diseases*
D. Padovani, A. Hessani, F. Castillo, G. Liot, M. Andriamihaja, A. Lan, C. Pilati, F. Blachier, S. Sen, E. Galardon, I. Artaud,
Nat. Commun., **2016**, 13386
40. *Positive Reverse regulatory pathway (H2S / PGE2 / MMP) in human aortic aneurysm and saphenous vein varicosity..*
I. Gomez, G. Özen , C. Deschildre , Y. Amgoud, L. Boubaya, I. Gorenne, C. Benyahia , T. Roger, G. Lesèche, E. Galardon, G. Topal, M.P. Jacob, D. Longrois , X. R. Norel
PLoS One, **2016**, 1(6) :e0158421
39. *Positive feedback during sulfide oxidation fine-tunes cellular affinity for oxygen..*
A. Abou-Hamdan, C. Ransy, T. Roger, H. Guedouari-Bounihi, E. Galardon, F. Bouillaud
BBA - Bioenergetics, **2016**, 1857(9):1464-1472.
38. *Improved Tag-Switch Method Reveals that Thioredoxin Acts as Depersulfidase and Controls the Intracellular Levels of Protein Persulfidation.*
R. Wedmann, C. Onderka, S. Wei, I.A. Szijártó, J. Miljkovic, A. Mitrovic, M. Lange, S. Savitsky, P. K. Yadav, R. Torregrossa, E. G. Harrer, T. Harrer, I Ishii, M. Gollasch, M. E. Wood, E. Galardon, M. Xian, M. Whiteman, R. Banerjee, Milos R. Filipovic
Chem.Sci., **2016**, 7, 3414-3426
37. *Reactivity of Persulfides Towards Strained Bicyclo[6.1.0]nonyne Derivatives: Relevance to Chemical Tagging of Proteins.*
E. Galardon*, D. Padovani
PBioconjugate Chem., **2015**, 26 , 1013–1016
36. *New Peptides with Metal Binding Abilities and Their Use as Drug Carriers*
A. Allam, L. Maigre, M. Alimi, R. Alves de Sousa, A. Hessani, E. Galardon, J. M. Pagès, I. Artaud
Bioconjugate Chem. **2014**, 25, 1811–1819

35. *A Persulfide Analog of the Nitrosothiol SNAP: Formation, Characterization and Reactivity.*
I. Artaud, E. Galardon*
ChemBioChem **2014**, 15, 2361-2164.
34. *Electrophilic Sulfhydration of 8-nitro-cGMP Involves Sulfane Sulfur.*
V. Terzic, D. Padovani, V. Balland, I. Artaud, E. Galardon*
Org. Biomol. Chem. **2014**, 12, 5360-5364
33. *New Biologically Active H₂S Donors.*
T. Roger, F. Raynaud, F. Bouillaud, C. Ransy, S. Simonet, C. Crespo, M.-P. Bourguignon, N. Villeneuve, J.-P. Vilaine, I. Artaud, E. Galardon*
ChemBioChem, **2013**, 14, 2268-2271.
32. *New Peptide-Based Antimicrobials for Tackling Drug Resistance in Bacteria: Single cell Fluorescence Imaging*
J. M. Pages, S. Kascakova, L. Maigre, A. Allam, M. Alimi, J. Chevalier, E. Galardon, M. Refregiers, I. Artaud
ACS Med. Chem. Lett. **2013**, 4, 556-559.
31. *Influence of the Diamine on the Reactivity of Thiosulfonato Ruthenium Complexes with Hydrosulfide (HS⁻).*
E. Galardon*, H. Daguet, P. Deschamps, P. Roussel, A. Tomas, I. Artaud
Dalton Trans., **2013**, 42, 2817-2821.

2012-2001: début de carrière CR_CNRS

30. *Synthesis of a Fe(II)-SH complex stabilized by intramolecular N-H...S H-Bond which acts as a H₂S donor.*
E. Galardon*, T. Roger, P. Deschamps, P. Roussel, A. Tomas, I. Artaud,
Inorg. Chem. **2012**, 51, 10068-10070.
29. *Characterization of Cobalt(III) Hydroxamic Acid Complexes based on a Tris-(2-pyridylmethyl)amine Scaffold: Reactivity Toward Cysteine Methyl Ester*
M. Alimi, A. Allam, M. Selkti, A. Tomas, P. Roussel, E. Galardon, I. Artaud,
Inorg. Chem. **2012**, 17, 9350-9356.
28. *Synthesis, Stability and Reactivity of Complex [(TPA)Zn(SH)]⁺ in Aqueous and Organic solutions.*
E. Galardon,* A. Tomas, P. Roussel, I. Artaud,
Eur. J. Inorg. Chem. **2011**, 25, 3797-3801.
27. *Métallation réversible d'un analogue bis-disulfure du site de liaison Cys*-X-Cys* de l'hepcidine : caractérisation structurale du complexe de cuivre associé.*
N. Desbenoit, E. Galardon, P. Deschamps, P. Roussel, D. Vaulont, I. Artaud, A. Tomas
Ann. Pharm. Fr. **2010**, 68, 388-396.

26. *An alternate route to disulfanido complexes by nucleophilic attack of thiolates on ruthenium-bound thiosulfonato ligands.*
E. Galardon,* P. Deschamps, A. Tomas, P. Roussel and I. Artaud*
Inorg. Chem. **2010**, 49, 20, 9119.
25. *Self-assembled Molecular Wires from Organiron Metallo-ligands and Ruthenium Tetramesityl Porphyrin*
F. Malvolti, P. Le Maux, L. Toupet, M. E. Smith, W. Y. Man, P. Low, E. Galardon, G. Simonneaux and F. Paul
Inorg. Chem. **2010**, 49, 9101.
24. *Reductive metalation of cyclic and acyclic pseudopeptidic bis-disulfides and back conversion of the resulting diamidato/dithiolato complexes to bis-disulfides*
N. Desbenoit, E. Galardon, Y. Frapart, A. Tomas and I. Artaud
Inorg. Chem. **2010**, 49, 8637.
23. *New fluorescent zinc complexes: towards specific sensors for hydrogen sulfide in solution.*
E. Galardon,* A. Tomas, P. Roussel and I. Artaud,
Dalton Trans. **2009**, 42, 9126.
22. *Synthesis, Characterization, and Reactivity of Alkyldisulfanido Zinc Complexes.*
E. Galardon,* A. Tomas, M. Selkti, P. Roussel and I. Artaud*
Inorg. Chem. **2009**, 48, (13), 5921.
21. *Influence of carboxamido nitrogen donors on the redox potential of copper(III) complexes.*
N. Desbenoit, E. Galardon, P. Roussel, I. Artaud and A. Tomas,
J. Coord. Chem. **2009**, 62, (15), 2472.
20. *Synthesis and characterization of mononuclear hydroxamato and hydroximato complexes of iron(III) based on the tris-(2-pyridylmethyl)amine ligand*
E. Galardon, M. Selkti, P. Roussel, A. Tomas and I. Artaud,
Dalton Trans. **2008**, (45), 6415.
19. *Synthesis of cyclic mono- and bis-disulfides and their selective conversion to mono- and bis-thiosulfinates*
E. Bourles, R. Alves de Sousa, E. Galardon, M. Selkti, A. Tomas and I. Artaud,
Tetrahedron **2007**, 63, (11), 2466.
18. *Metalation of Cyclic Pseudopeptidic Thiosulfinates with Ni(II) and Zn(II) after Ring Opening: A Mechanistic Investigation*
E. Galardon, E. Bourles, I. Artaud, J.-C. Daran, P. Roussel and A. Tomas,
Inorg. Chem. **2007**, 46(11), 4515.
17. *Modeling the inhibition of peptide deformylase by hydroxamic acids: influence of the sulfur donor*
E. Galardon, M. Giorgi and I. Artaud,
Dalton Trans. **2007**, (10), 1047.

16. *Oxidation of Zn(N₂S₂) complexes to disulfonates: relevance to zinc-finger oxidation under oxidative stress*
R. Alves de Sousa, E. Galardon, M. Rat, M. Giorgi and I. Artaud,
J. Inorg. Biochem. **2005**, 99, (3), 690.
15. *Direct synthesis of a thiolato-S and sulfinato-S CoIII complex related to the active site of nitrile hydratase: A pathway to the post-translational oxidation of the protein*
E. Bourles, R. Alves de Sousa, E. Galardon, M. Giorgi and I. Artaud,
Angew. Chem., Int. Ed. Engl. **2005**, 44, (38), 6162.
14. *Oxygenation of thiolates to S-bonded sulfinato in an iron(III) complex related to nitrile hydratase*
E. Galardon, M. Giorgi and I. Artaud,
Chem. Commun. **2004**, (3), 286.

2002-2001 : stage post-doctoral

13. *Profound steric control of reactivity in aryl halide addition to bisphosphine palladium(0) complexes*
E. Galardon, S. Ramdeehul, J. M. Brown, A. Cowley, K. K. Hii and A. Jutand,
Angew. Chem., Int. Ed. Engl. **2002**, 41, (10), 1760.
12. *Competing regiochemical pathways in the Heck arylation of 1,2-dihydronaphthalene*
K. Maeda, E. J. Farrington, E. Galardon, B. D. John and J. M. Brown,
Adv. Synth. Catal. **2002**, 344, (1), 104.
11. *Interplay of synthesis and mechanism in asymmetric homogeneous catalysis*
N. J. Adams, J. Bargon, J. M. Brown, E. J. Farrington, E. Galardon, R. Giernoth, H. Heinrich, B. D. John and K. Maeda,
Pure Appl. Chem. **2001**, 73, (2), 343.

2001-1996 : doctorat

10. *¹H-NMR and EPR studies of the electronic structure of low-spin ruthenium(III) isocyanide porphyrin complexes: unusual (dxz,dyz)⁴(dxy)¹ configuration*
E. Galardon, P. Le Maux, C. Paul, C. Poriel and G. Simonneaux,
J. Organomet. Chem. **2001**, 629, (1-2), 145.
9. *Ruthenium-porphyrin-catalyzed carbenoid addition to allylic compounds: application to [2,3]-sigmatropic rearrangements of ylides*
G. Simonneaux, E. Galardon, C. Paul-Roth, M. Gulea and S. Masson,
J. Organomet. Chem. **2001**, 617-618, 360.
8. *Cyclopropanation of alkenes, N-H and S-H insertion of ethyl diazoacetate catalyzed by ruthenium porphyrin complexes*
E. Galardon, P. Le Maux and G. Simonneaux,
Tetrahedron **2000**, 56, (4), 615.
7. *Bis[(R)-1-phenylethyl isocyanido](5,10,15,20-tetrakis{2,6-bis[(S)-2,2-dimethyl-1,3-dioxolan-4-ylmethoxy]phenyl}porphyrin)ruthenium(II) at 110 K*

- E. Galardon, M. Lukas, P. Le Maux, L. Toupet, T. Roisnel and G. Simonneaux, *Acta Cryst. Sect. C* **2000**, C56, (8), 955.
6. *Chiral recognition of amino esters by a ruthenium porphyrin complex: kinetics of the exchange process determined by ¹H NMR*
E. Galardon, P. Le Maux, A. Bondon and G. Simonneaux, *Tetrahedron: Asym.* **1999**, 10, (21), 4203.
 5. *Synthesis and characterization of a new chiral ruthenium picket-fence porphyrin and its use in chiral recognition of racemic isocyanides*
E. Galardon, M. Lukas, P. Le Maux and G. Simonneaux, *Tetrahedron Lett.* **1999**, 40, (14), 2753.
 4. *Asymmetric cyclopropanation of alkenes and diazocarbonyl insertion into S-H bonds catalyzed by a chiral porphyrin Ru(II) complex*
E. Galardon, S. Roue, P. Le Maux and G. Simonneaux, *Tetrahedron Lett.* **1998**, 39, (16), 2333.
 3. *Synthesis, Crystal Structure, and Reactivity of (5,10,15,20-Tetraphenylporphyrinato)ruthenium(II) (Diethoxycarbonyl)carbene Methanol*
E. Galardon, P. L. Maux, L. Toupet and G. Simonneaux, *Organometallics* **1998**, 17, (4), 565.
 2. *Insertion of ethyl diazoacetate into N-H and S-H bonds catalyzed by ruthenium porphyrin complexes*
E. Galardon, P. Le Maux and G. Simonneaux, *J. Chem. Soc. Parkin Trans. 1* **1997**, (17), 2455.
 1. *Cyclopropanation of alkenes with ethyl diazoacetate catalyzed by ruthenium porphyrin complexes*
E. Galardon, P. Le Maux and G. Simonneaux, *Chem. Commun.* **1997**, (10), 927.

