

# Gildas Bertho

## List of Publications by Year in descending order

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75  
papers

1,930  
citations

257450

24  
h-index

276875

41  
g-index

79  
all docs

79  
docs citations

79  
times ranked

2755  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Structural and Functional Characterization of Nrf2 Degradation by the Glycogen Synthase Kinase 3 $\beta$ -TrCP Axis. <i>Molecular and Cellular Biology</i> , 2012, 32, 3486-3499.   | 2.3  | 338       |
| 2  | Cytochromes P450 Catalyze Both Steps of the Major Pathway of Clopidogrel Bioactivation, whereas Paraoxonase Catalyzes the Formation of a Minor Thiol Metabolite Isomer. <i>Chemical Research in Toxicology</i> , 2012, 25, 348-356.   | 3.3  | 108       |
| 3  | Metabolic Oxidative Cleavage of Thioesters: Evidence for the Formation of Sulfenic Acid Intermediates in the Bioactivation of the Antithrombotic Prodrugs Ticlopidine and Clopidogrel. <i>Chemical Research in Toxicology</i> , 2009, 22, 369-373.  | 3.3  | 88        |
| 4  | First evidence that cytochrome P450 may catalyze both S-oxidation and epoxidation of thiophene derivatives. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 450-455.  | 2.1  | 86        |
| 5  | The First Water-Soluble Copper(I) Calix[6]arene Complex Presenting a Hydrophobic Ligand Binding Pocket: A Remarkable Model for Active Sites in Metalloenzymes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1044-1046.  | 13.8 | 71        |
| 6  | Automatic clustering of docking poses in virtual screening process using self-organizing map. <i>Bioinformatics</i> , 2010, 26, 53-60.  | 4.1  | 63        |
| 7  | Paraoxonase-1 and clopidogrel efficacy. <i>Nature Medicine</i> , 2011, 17, 1040-1041.   | 30.7 | 50        |
| 8  | Transferred nuclear Overhauser effect study of macrolide-ribosome interactions: correlation between antibiotic activities and bound conformations. <i>Bioorganic and Medicinal Chemistry</i> , 1998, 6, 209-221.  | 3.0  | 44        |
| 9  | Identification and quantitative analysis of the phytoecdysteroids in <i>Silene</i> species (Caryophyllaceae) by high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2001, 935, 309-319.  | 3.7  | 42        |
| 10 | NMR Studies of the Phosphorylation Motif of the HIV-1 Protein Vpu Bound to the F-Box Protein $\hat{1}^2$ -TrCP. <i>Biochemistry</i> , 2003, 42, 14741-14751.  | 2.5  | 42        |
| 11 | Conformational Analysis of Ketolide, Conformations of RU 004 in Solution and Bound to Bacterial Ribosomes. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 3373-3386.   | 6.4  | 39        |
| 12 | Tryptophan Depletion and the Kinase GCN2 Mediate IFN- $\hat{1}^3$ -Induced Autophagy. <i>Journal of Immunology</i> , 2012, 189, 2954-2964.  | 0.8  | 38        |
| 13 | Specific Physical Exercise Improves Energetic Metabolism in the Skeletal Muscle of Amyotrophic-Lateral-Sclerosis Mice. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 332.  | 2.9  | 37        |
| 14 | Oxidative and Reductive Metabolism of Tris( <i>p</i> -carboxyltetrahydryl)methyl Radicals by Liver Microsomes. <i>Chemical Research in Toxicology</i> , 2009, 22, 1342-1350.  | 3.3  | 34        |
| 15 | Sheep Prion Protein Synthetic Peptide Spanning Helix 1 and $\hat{1}^2$ -Strand 2 (Residues 142-166) Shows $\hat{1}^2$ -Hairpin Structure in Solution. <i>Journal of Biological Chemistry</i> , 2001, 276, 46364-46370.  | 3.4  | 32        |
| 16 | Formation and Fate of a Sulfenic Acid Intermediate in the Metabolic Activation of the Antithrombotic Prodrug Prasugrel. <i>Chemical Research in Toxicology</i> , 2010, 23, 1268-1274.   | 3.3  | 30        |
| 17 | Solution conformation of methylated macrolide antibiotics roxithromycin and erythromycin using NMR and molecular modelling. Ribosome-bound conformation determined by TRNOE and formation of cytochrome P450-metabolite complex. <i>International Journal of Biological Macromolecules</i> , 1998, 22, 103-127. | 7.5  | 29        |
| 18 | Allosteric Tuning of the Intra-Cavity Binding Properties of a Calix[6]arene through External Binding to a ZnII Center Coordinated to Amino Side Chains. <i>Chemistry - A European Journal</i> , 2007, 13, 2078-2088.  | 3.3  | 29        |

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|----|---|-----|-----------|
| 19 | Ecdysteroids from the medicinal fern <i>Microsorium scolopendria</i> (Burm. f.). <i>Phytochemical Analysis</i> , 2007, 18, 441-450.   | 2.4 | 28        |
| 20 | Transfer-NMR and Docking Studies Identify the Binding of the Peptide Derived from Activating Transcription Factor 4 to Protein Ubiquitin Ligase $\hat{I}^2$ -TrCP. Competition STD-NMR with $\hat{I}^2$ -Catenin. <i>Biochemistry</i> , 2008, 47, 14-29.                  | 2.5 | 28        |
| 21 | Lincomycin and clindamycin conformations. A fragment shared by macrolides, ketolides and lincosamides determined from TRNOE ribosome-bound conformations. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 1225-1243.   | 3.0 | 27        |
| 22 | Oxidation of tris-(p-carboxyltetraaryl)methyl radical EPR probes: evidence for their oxidative decarboxylation and molecular origin of their specific ability to react with $O_2^{\bullet}$ . <i>Chemical Communications</i> , 2009, , 1416.                              | 4.1 | 27        |
| 23 | Efficient synthesis of polyfunctionalised enantiopure diazepanone scaffolds. <i>Tetrahedron Letters</i> , 2007, 48, 8149-8152.  | 1.4 | 26        |
| 24 | Possible role of region 152-156 in the structural duality of a peptide fragment from sheep prion protein. <i>Protein Science</i> , 2009, 13, 3151-3160.   | 7.6 | 25        |
| 25 | Conformations in solution and bound to bacterial ribosomes of ketolides, HMR 3647 (telithromycin) and RU 72366: A new class of highly potent antibacterials. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 1579-1597.  | 3.0 | 24        |
| 26 | Synthesis and glycosidase inhibitory activity of enantiopure polyhydroxylated octahydroindoles and decahydroquinolines, analogs to castanospermine. <i>Tetrahedron</i> , 2003, 59, 8721-8730.   | 1.9 | 24        |
| 27 | Antibiotic Resistance Peptides: Interaction of Peptides Conferring Macrolide and Ketolide Resistance with <i>Staphylococcus aureus</i> Ribosomes. Conformation of Bound Peptides As Determined by Transferred NOE Experiments. <i>Biochemistry</i> , 2002, 41, 4218-4229. | 2.5 | 23        |
| 28 | STD and TRNOESY NMR Studies on the Conformation of the Oncogenic Protein $\hat{I}^2$ -Catenin Containing the Phosphorylated Motif DpSGXXpS Bound to the $\hat{I}^2$ -TrCP Protein. <i>Journal of Biological Chemistry</i> , 2005, 280, 29107-29116.                       | 3.4 | 23        |
| 29 | Metabolic Activation of Prasugrel: Nature of the Two Competitive Pathways Resulting in the Opening of Its Thiophene Ring. <i>Chemical Research in Toxicology</i> , 2012, 25, 1058-1065.   | 3.3 | 21        |
| 30 | Urinary Metabolic Fingerprint of Acute Intermittent Porphyria Analyzed by $^1H$ NMR Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 2166-2174.  | 6.5 | 21        |
| 31 | Solution structure of a peptide derived from the oncogenic protein $\hat{I}^2$ -Catenin in its phosphorylated and nonphosphorylated states. <i>Peptides</i> , 2005, 26, 227-241.  | 2.4 | 20        |
| 32 | Synthetic studies towards diazepanone scaffolds. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 2320-2330.   | 1.8 | 20        |
| 33 | Contact-based ligand-clustering approach for the identification of active compounds in virtual screening. <i>Advances and Applications in Bioinformatics and Chemistry</i> , 2012, 5, 61.   | 2.6 | 20        |
| 34 | The follicular fluid metabolome differs according to the endometriosis phenotype. <i>Reproductive BioMedicine Online</i> , 2020, 41, 1023-1037.   | 2.4 | 20        |
| 35 | Rule-Mining for the Early Prediction of Chronic Kidney Disease Based on Metabolomics and Multi-Source Data. <i>PLoS ONE</i> , 2016, 11, e0166905.   | 2.5 | 19        |
| 36 | NMR studies for identifying phosphopeptide ligands of the HIV-1 protein Vpu binding to the F-box protein $\hat{I}^2$ -TrCP. <i>Peptides</i> , 2006, 27, 194-210.  | 2.4 | 17        |

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|----|--|-----|-----------|
| 37 | Phosphorylation-dependent structure of ATF4 peptides derived from a human ATF4 protein, a member of the family of transcription factors. <i>Peptides</i> , 2007, 28, 2253-2267.  | 2.4 | 17        |
| 38 | Structural Studies on 24P-Î²BÎ± Peptide Derived from a Human Î²B-Î± Protein Related to the Inhibition of the Activity of the Transcription Factor NF-Î²Bâ€. <i>Biochemistry</i> , 2007, 46, 2958-2972.   | 2.5 | 16        |
| 39 | Expression in yeast, new substrates, and construction of a first 3D model of human orphan cytochrome P450 2U1: Interpretation of substrate hydroxylation regioselectivity from docking studies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1426-1437. | 2.4 | 16        |
| 40 | Synthesis and glycosidase inhibitory activity of new hexa-substituted C8-glycomimetics. <i>Beilstein Journal of Organic Chemistry</i> , 2005, 1, 12.   | 2.2 | 15        |
| 41 | Thiolactone Sulfoxides as New Reactive Metabolites Acting as Bis-Electrophiles: Implication in Clopidogrel and Prasugrel Bioactivation. <i>Chemical Research in Toxicology</i> , 2013, 26, 794-802.  | 3.3 | 14        |
| 42 | Endometriosis phenotypes are associated with specific serum metabolic profiles determined by proton-nuclear magnetic resonance. <i>Reproductive BioMedicine Online</i> , 2020, 41, 640-652.  | 2.4 | 14        |
| 43 | Dissociationâ€ equilibrium constant and bound conformation for weak antibiotic binding interaction with different bacterial ribosomesâ€Šâ€. <i>Perkin Transactions II RSC</i> , 2000, , 2363-2371.   | 1.1 | 13        |
| 44 | Novel RANK Antagonists for the Treatment of Bone-Resorptive Disease: Theoretical Predictions and Experimental Validation. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1466-1477.   | 2.8 | 12        |
| 45 | Real-Time and Non-invasive Monitoring of the Activation of the IRE1Î±-XBP1 Pathway in Individuals with Hemodynamic Impairment. <i>EBioMedicine</i> , 2018, 27, 284-292.  | 6.1 | 12        |
| 46 | STD and TRNOESY NMR studies for the epitope mapping of the phosphorylation motif of the oncogenic protein Î²-catenin recognized by a selective monoclonal antibody. <i>FEBS Letters</i> , 2006, 580, 5411-5422.  | 2.8 | 11        |
| 47 | Loss of prion protein control of glucose metabolism promotes neurodegeneration in model of prion diseases. <i>PLoS Pathogens</i> , 2021, 17, e1009991.   | 4.7 | 11        |
| 48 | Purification and structure of the major product obtained by reaction of NADPH and NMNH with the myeloperoxidase/hydrogen peroxide/chloride system. <i>FEBS Journal</i> , 2001, 268, 2889-2895.   | 0.2 | 10        |
| 49 | Epitope Mapping of the Phosphorylation Motif of the HIV-1 Protein Vpu Bound to the Selective Monoclonal Antibody Using TRNOESY and STD NMR Spectroscopy. <i>Biochemistry</i> , 2004, 43, 14555-14565.  | 2.5 | 10        |
| 50 | Fixing the conformations of diamineplatinum(II)-GpG chelates: NMR and CD signatures of individual rotamers. <i>Journal of Biological Inorganic Chemistry</i> , 2006, 11, 139-152.  | 2.6 | 10        |
| 51 | Diastereoselective Additions to (3 <i>S</i> )-â€Aminodehydrocaprolactams: Development of a Versatile Synthesis of New Substituted Cyclic <sc>L</sc>-lysines. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1901-1909.   | 2.4 | 10        |
| 52 | Toward Stable Electron Paramagnetic Resonance Oximetry Probes: Synthesis, Characterization, and Metabolic Evaluation of New Ester Derivatives of a Tris-( <i>para</i> -carboxyltetraaryl)methyl (TAM) Radical. <i>Chemical Research in Toxicology</i> , 2013, 26, 1561-1569.     | 3.3 | 10        |
| 53 | Conformational analysis of josamycin, a 16-membered macrolide free in solution and bound to bacterial ribosomes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 529-544.  | 0.9 | 9         |
| 54 | Structure of the Complex between Phosphorylated Substrates and the SCF Î²-TrCP Ubiquitin Ligase Receptor: A Combined NMR, Molecular Modeling, and Docking Approach. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 2350-2361.                                   | 5.4 | 9         |

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|----|--|-----|-----------|
| 55 | Ultrahigh-Resolution NMR with Water Signal Suppression for a Deeper Understanding of the Action of Antimetabolic Drugs on Diffuse Large B-Cell Lymphoma. <i>Journal of Proteome Research</i> , 2022, 21, 1041-1051.      | 3.7 | 9         |
| 56 | Naphthalene-dioxygenase catalysed cis-dihydroxylation of bicyclic azaarenes. <i>RSC Advances</i> , 2012, 2, 605-615.   | 3.6 | 8         |
| 57 | Conformation of macrolides antibiotics bound to ribosomes as determined from transferred nuclear Overhauser effect spectroscopy. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1998, 95, 423-429.  | 0.2 | 8         |
| 58 | 3-Carboxy-4-phosphonocyclopentane amino acids: New metabotropic glutamate receptor ligands. <i>Amino Acids</i> , 2003, 24, 303-310.  | 2.7 | 7         |
| 59 | Insights into the interaction of high potency inhibitor IRCâ€83864 with phosphatase CDC25. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 593-601.   | 2.6 | 7         |
| 60 | Model of the Interaction between the NF-Î²B Inhibitory Protein p100 and the E3 Ubiquitin Ligase Î²-TrCP based on NMR and Docking Experiments. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 223-233.   | 5.4 | 7         |
| 61 | Urinary metabolic profiling of asymptomatic acute intermittent porphyria using a rule-mining-based algorithm. <i>Metabolomics</i> , 2018, 14, 10.  | 3.0 | 7         |
| 62 | Adenomyosis is associated with specific proton nuclear magnetic resonance (1H-NMR) serum metabolic profiles. <i>Fertility and Sterility</i> , 2021, 116, 243-254.  | 1.0 | 7         |
| 63 | A new derivative detected in accelerated ageing of artesunate-amodiaquine fixed dose combination tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 81-82, 20-26.                                 | 2.8 | 6         |
| 64 | Interaction of a small molecule Natura-Î± and STAT3-SH2 domain to block Y705 phosphorylation and inhibit lupus nephritis. <i>Biochemical Pharmacology</i> , 2016, 99, 123-131.   | 4.4 | 6         |
| 65 | The urinary metabolome of chronic kidney disease. <i>Kidney International</i> , 2014, 85, 1239-1240.   | 5.2 | 5         |
| 66 | Microbial hydroxylation/functionalization of terpenoid synthons derived from communic acids. <i>Phytochemistry</i> , 2000, 54, 23-27.  | 2.9 | 4         |
| 67 | The key-role of tyrosine 155 in the mechanism of prion transconformation as highlighted by a study of sheep mutant peptides. <i>Peptides</i> , 2008, 29, 1073-1084.  | 2.4 | 4         |
| 68 | NMR Applications for Identifying &#946;-TrCP Protein-Ligand Interactions. <i>Mini-Reviews in Medicinal Chemistry</i> , 2011, 11, 283-297.  | 2.4 | 4         |
| 69 | On the Supraâ€LUMO Interaction: Case Study of a Sudden Change of Electronic Structure as a Functional Emergence. <i>Chemistry - A European Journal</i> , 2021, 27, 17889-17899.   | 3.3 | 3         |
| 70 | The complex metabolism of poststerone in male rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2021, 212, 105897.  | 2.5 | 2         |
| 71 | Solution structure of the sheep prion PrPâ€142-166â€: a possible site for the conformational conversion of prion protein. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 739-743. | 0.1 | 1         |
| 72 | Distinction between 2â€ and 3â€-Phosphate Isomers of a Fluorescent NADPH Analogue Led to Strong Inhibition of Cancer Cells Migration. <i>Antioxidants</i> , 2021, 10, 723.   | 5.1 | 1         |

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|----|--|-----|-----------|
| 73 | Structural analysis of unstable norbixin isomers guided by pure shift nuclear magnetic resonance. <i>Magnetic Resonance in Chemistry</i> , 2022, 60, 504-514.  | 1.9 | 1         |
| 74 | Covalent bonding of bridged pyridinium aldehyde derivatives with guanine N7 is controlled by CpG site conformation. <i>Perkin Transactions II RSC</i> , 2001, , 1771-1780.   | 1.1 | 0         |
| 75 | A novel mechanism of antibiotic resistance: study of the complex state of peptides with bacterial <i>Staphylococcus aureus</i> ribosomes. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 745-750. | 0.1 | 0         |