

SELECTION OF PUBLICATIONS (among ca. 400)

The isolation of spermidine by degradation of Lunarine,
J. Le Men, M. M. Janot, P. Bladon, and P. Potier, *Tetrahedron Letters*, 1960, 36.

Présence de stéroïdes cétoniques dans les feuilles de *Paravallaris microphylla* Pitard (Apocynacées),
C. Kan, J. Le Men and P. Potier, *Tetrahedron Letters*, 1964, 1671.

Constitution of Ipecoside : A Monoterpenoid Isoquinoline,
A. R. Battersby, B. Grégory, H. Spencer, J. C. Turner, M.-M. Janot, P. Francois, J. Levisalles, and
P. Potier, *Chem. Comm.*, 1967, 219.

Modification de la réaction de Polonovski. Action de l'anhydride trifluoroacétique sur un aminoxyde,
A. Cavé, C. Kan-Fan, J. Le Men, and P. Potier, *Tetrahedron*, 1967, **23**, 4681.

Facile N-O Bond Cleavage of Amine Oxides,
A. Ahond, A. Cavé, C. Kan-Fan, H. P. Husson, J. de Rostolan, and P. Potier, *J. Amer. Chem. Soc.*, 1968,
90, 5622.

The Fragmentation of *N,N*-Dimethyltryptamine Oxide and Related Compounds : A Possible Implication
in Indole Alkaloid Biosynthesis,
A. Ahond, C. Kan-Fan, A. Cavé, Y. Langlois, and P. Potier, *Chem. Comm.*, 1970, 517.

Sur la biogénèse des alcaloïdes indoliques du groupe de l'ellipticine,
M.-M. Janot and P. Potier, *Compt. Rend.*, 1973, **276**, série C, 1727.

Études en série indolique. VI. – Transformation des alcaloïdes du type vobasine en alcaloïdes du type
dehydroervatamine. Analyse aux rayons X de l'ervatamine,
A. Husson, Y. Langlois, C. Riche, H. P. Husson, and P. Potier, *Tetrahedron*, 1973, **29**, 3095.

Isolement et analyse structurale du collybolide, nouveau sesquiterpène extrait de *Collybia maculata* Alb.
et Sch. ex Fries (Basidiomycètes),
A. M. Bui, A. Cave, M.-M. Janot, J. Parello, and P. Potier, *Tetrahedron*, 1974, **30**, 1327.

Structure and Biogenetic-type Synthesis of Andranginine : an Indole Alkaloïde of a New Type,
C. Kan-Fan, G. Massiot, A. Ahond, B.-C. Das, H. P. Husson, A. I. Scott, Chung-Chen Wei, and P. Potier,
J. Chem. Soc. Chem. Comm., 1974, 164.

Partial Synthesis of Vinblastine-type Alkaloïds,
N. Langlois, Y. Langlois, F. Guérinne, and P. Potier, *J. Chem. Soc. Chem. Comm.*, 1975, 670.

Application of a Modification of the Polonovski Reaction to the Synthesis of Vinblastine-Type Alkaloids,
N. Langlois, F. Guérinne, Y. Langlois, and P. Potier, *J. Amer. Chem. Soc.*, 1976, **98**, 7071.

La reacción de Plonovski modificada,
P. Potier, *Rev. Latinoamer. Quim.*, 1978, **9**, 47.

Préparation of Vinblastine, Vincristine and Leurosidine, Antitumor Alkaloïds from *Catharanthus* sp.
(Apocynaceae),
P. Mangeney, R. Z. Andriamialisoa, N. Langlois, Y. Langlois, and P. Potier, *J. Amer. Chem. Soc.*, 1979,
101, 2243.

A New Class of Antitumor Compounds : 5'-Nor and 5', 6'-Seco Derivatives of Vinblastine-type Alkaloids,
P. Mangeney, R. Z. Andriamialisoa, N. Langlois, Y. Langlois, and P. Potier, *J. Org. Chem.*, 1979, **44**,
3765.

Synthesis of the Antitumor Dimeric Indole Alkaloids from *Catharanthus Species* (Vinblastine Group),
P. Potier, *J. Nat. Prod.*, 1980, **43**, 72.

Methylamide β-carboline (FG 7142) an anxiogenic benzodiazepine antagonist, is also a proconvulsivant,
J. Rossier, R. H. Dodd, S. Feldblum, A. Valin, L. Prado de Carvalho, R. Naquet, and P. Potier, *The Lancet*,
1983, January 1-8, pp. 77-78.

Chimie Organique Biologique – Hémisynthèse de nouveaux analogues du taxol, étude de leur interaction
avec la tubuline,
V. Sénilh, F. Guérinne, D. Guénard, M. Colin, and P. Potier, *C. R. Acad. Sc.*, 1984, **299**, Serie II, N°15, pp.
1039-1043.

Relationships between the structures of taxol and baccatin III derivatives and their *in vitro* action on the disassembly of mammalian brain and *Physarum amoebal* microtubules,

H. Lataste, V. Sénilh, M. Wright, D. Guénard, and P. Potier, *Proc. Natl. Acad. Sci.*, 1984, **81**, 4090.

Reductive Radical Decarboxylation of Amino-acids and Peptides,

D. H. R. Barton, Y. Hervé, J. Thierry, and P. Potier, *J. Chem. Soc. Chem. Comm.*, 1984, 1298.

IMMUNOLOGIE – Présence d'un site de fixation de "type périphérique" des benzodiazépines sur le macrophage ; son rôle éventuel dans l'immunomodulation,

M. Lenfant, F. Zavala, J. Haumont, and P. Potier, *C. R. Acad. Sc.*, Paris, 1985, t. 300, Série III, N°8.

Chemical Studies of 10-Deacetyl Baccatin III. Hemisynthesis of Taxol Derivatives,

F. Guérinne-Voegelein, V. Sénilh, B. David, D. Guénard, and P. Potier, *Tetrahedron*, 1986, **42**, 4451.

La giolline, nouvelle substance antitumorale extraite de l'Eponge *Pseudaxinyssa cantharella* n. sp. (Axinellidae),

A. Ahond, M. Bedoya-Zurita, M. Colin, C. Fizames, P. Laboute, F. Lavelle, D. Laurent, C. Poupat, J. Pusset, M. Pusset, O. Thoison, and P. Potier, *C. R. Acad. Sc.*, Paris, 1988, **29**, N° 45, 5759.

Première synthèse totale de la Giolline,

M. Bedoya-Zurita, A. Ahond, C. Poupat, and P. Potier, *Tetrahedron*, 1989, **45**, 6713.

Structure of a synthetic taxol precursor, N-tert-butoxycarbonyl 10-deacetyl-N-debenzoyltaxol (TAXOTERE®),

F. Guérinne-Voegelein, D. Guénard, L. Mangatal, P. Potier, J. Guilhem, M. Cesario, and C. Pascard, *Acta Crystallogr., Sect. C : Cryst. Struct. Commun.*, 1991, **46**, 781.

Structure cristalline et configuration absolue de la giolline,

A. Chiaroni, C. Riche, A. Ahond, C. Poupat, M. Pusset, and P. Potier, *C. R. Acad. Sci.*, Paris, 1991, **312**, Serie II, pp. 49-53

Substances anticancéreuses d'origine végétale. Les poisons du fuseau : vincialeucoblastine, leurocristine et Navelbine : Taxol et Taxotère,

F. Guérinne-Voegelein, D. Guénard, and P. Potier, *C. R. Soc. Biol.*, 1992, **186**, 433.

Taxol and Taxotère : Discovery, Chemsitry and Structure-Activity Relationships,
D. Guénard, F. Guérinne-Voegelein, and P. Potier, *Acc. Chem. Res.*, 1993, **26**, 160.

NO, thiols and disulfides,
P. Girard and P. Potier, *FEBS Letters*, 1993, **320**, 7.

Taxoids, a new class of antitumour agents of plant origin : recent results,
P. Potier, F. Guérinne-Voegelein, and D. Guénard, *Nouvelle Revue d'Hématologie*, 1994, **36**, 21.

Studies Towards the Total Synthesis of Taxoids. Lead Tetraacetate Oxidations of Selected Unsaturated
Bicyclic-Diols,
S. Arseniyadis, D. V. Yashunsky, R. Brondo Alves, Q. Wang, E. Toromanoff, L. Toupet, and P. Potier,
Tetrahedron Letters, 1994, **35**, 99.

Interactions between docetaxel (Taxotere) and Plasmodium falciparum infected erythrocytes,
J. Schrével, V. Sinou, P. Grellier, F. Frappier, D. Guénard, and P. Potier, *Proc. Natl. Acad. Sci.*, 1994, **91**,
8472.

Recherche et découverte de nouveaux médicaments antitumoraux : la Navelbine et le Taxotère,
P. Potier, *L'Actualité Chimique*, 1995, Janvier-Février, pp. 5-9.

Observation on the Reaction of *O*-Acylthiohydroxamates with Thionitrite Esters : a Novel Free Radical
Chain Reaction for Decarboxylative Amination,
P. Girard, N. Guillot, W. B. Motherwell, and P. Potier, *J. Chem. Soc., Chem. Comm.*, 1995, 2385.

Chemistry and Structure-Activity Relationships of Taxoids with Modified Skeletons,
F. Guérinne-Voegelein, D. Guénard, J. Dubois, A. Wahl, R. Marder, R. Muller, M. Lund, L. Bricard, and P.
Potier, *American Chemical Society*, 1995, Chap. 14, pp. 190-202.

Taxoids : New Weapons against Cancer,
K. C. Nicolaou, R. K. Guy, and P. Potier, *Scientific American*, 1996, **274**, 84.

Catabolism of the Hemoregulatory Peptide *N*-Acetyl-Ser-Asp-Lys-Pro : a New Insight into the
Physiological Role of the Angiotensin-I-Converting Enzyme *N*-Active Site,

A. Rousseau-Plasse, M. Lenfant, and P. Potier, *Bioorganic & Medicinal Chemistry*, 1996, **4**, 1113.

Chimie et Biologie : La Nature : source d'inspiration pour les chimistes,
P. Potier, *Chimie Paris*, N° 274, Octobre 1996.

Antitumor taxoids,

F. Guérinne-Voeglein, D. Guénard, and P. Potier, *Médicinal Chemistry : Today and Tomorrow*, edited by Mikio Yamazaki, IUPAC, 1997.

A novel stereodivergent synthesis of optically pure *cis*- and *trans*-3-substituted proline derivatives,
N. A. Sasaki, M. Dockner, A. Chiaroni, C. Riche, and P. Potier, *J. Org. Chem.*, 1997, **62**, 765.

Influence de la conformation des taxoïdes sur la réactivité chimique et l'activité,

F. Guérinne-Voeglein, D. Guénard, J. Dubois, R. Marder, S. Thoret, Q. Wang, and P. Potier, *Actualités de chimie thérapeutique*, 1997, 23ème série, pp. 173–187.

Studies towards the total synthesis of Taxoids : Strategies built around a molecule and the discovery of new methodologies,

S. Arseniyadis, R. Brondi Alves, R. Pereira de Freitas, M. Munoz Dorado, D. V. Yashunsky, and P. Potier, *Heterocycles*, 1997, **46**, 727.

NAcSDKP Analogues Resistant to Antiotensin-Converting Enzyme,

S. Gaudron, M. T. Adeline, J. Thierry, and P. Potier, *J. Med. Chem.*, 1997, **40**, 3963.

Plants : An inexhaustable source of drugs,

P. Potier, *Biomarkers and Environment*, 1998, 2.

Assymmetric Synthesis of 4-Substituted Prolines as Conformationally Constrained Amiono Acid Analogues,

Qian Wang, N. A. Sasaki, and P. Potier, *Tetrahedron*, 1998, **54**, 15759.

An Expedient Access to Highly Functionalized B-seco Taxoid Frameworks,

S. Arseniyadis, J. I. Martin Hernando, J. Quilez del Moral, D. V. Yashunsky, and P. Potier, *Tetrahedron Letters*, 1998, **39**, 3489.

Unexpected Hydroxylation of Galanthamine During the Course of a Polonovski-Potier Reaction,
Renko, A. Mary, C. Guillou, P. Potier, and C. Thal, *Tetrahedron Letters*, 1998, **39**, 4251.

A convenient preparation of taxoid right-half building blocks,
S. Arseniyadis, J. Quilez del Moral, R. Brondi Alves, P. Potier, and L. Toupet, *Tetrahedron Asymmetry*,
1998, **9**, 2871.

Influence of the Antioxidant Quercetin *In Vivo* on the Level of Nitric Oxide Determined by Electron
Paramagnetic Resonance in Rat Brain during Global Ischemia and Reperfusion,
Z. Shutenko, Y. Henry, E. Pinard, J. Seylaz, P. Potier, F. Berthet, P. Girard, and R. Sercombe, *Biochemical
Pharmacology*, 1999, **57**, 199.

A Versatile Method for the Facile Synthesis of Enantiopure *trans*- and *cis*-2,5-Disubstituted Pyrrolidines,
Q. Wang, N. A. Sasaki, C. Riche, and P. Potier, *J. Org. Chem.*, 1999, **64**, 8602.

Cytotoxicity of natural ginseng glycosides and semisynthetic analogues,
L. N. Atopkina, G. V. Malinovskaya, G. B. Elyakov, N. I. Uvaova, H. J. Woerdenbag, A. Koulman, and P.
Potier, *Planta Medica*, 1999, **65**, 30.

Synthesis and Benzodiazepine Receptor (ω Receptor) Affinities of 3-Substituted Derivatives of Pyrro[2,3-*c*]pyridine-5-carboxylate, a Novel Class of ω_1 Selective Ligands,
X. Doisy, M. Dekhane, M. Le Hyaric, J. F. Rousseau, S. K. Singh, S. Tan, V. Guilleminot, H. Schoemaker,
M. Sevrin, P. George, P. Potier, and R. H. Dodd, *Bioorganic & Medicinal Chemistry* 7, 1999, pp. 921-932.

Voies de recherche des Médicaments *Primum observare*,
Entretien and P. Potier, *Le Concours Médical*, 1999, pp. 1816-1818.

Stereoselective synthesis of 13Z retinoic acid via β -methylenealdehydes as synthons,
A. Valla, Z. Andriamialisoa, M. Giraud, V. Prat, A. Laurent, and P. Potier, *Tetrahedron Letters*, 2000, **40**,
9235.

The Reaction of Thionitrites with Barton Esters : A Convenient Free Radical Chain Reaction for
Decarboxylative Nitrosation,

P. Girard, N. Guillot, W. B. Motherwell, R. S. Hay-Motherwell, and P. Potier, *Tetrahedron*, 1999, **55**, 3573.

Séance thématique : Quelques réflexions sur la recherche thérapeutique,
P. Potier, *Ann. Pharm. Fr.*, 2000, **58**, 225.

Synthesis and Biological Evaluation of Enantiopure Thionitrites : The Solid-Phase Synthesis and Nitrosation of D-Glutathione as a Molecular Probe,

M. Cavero, A. Hobbs, D. Madge, W. B. Motherwell, D. Selwood, and P. Potier, *Bioorganic & Medicinal Chemistry Letters*, 2000, **10**, 641.

Semisynthesis of D-Ring Modified Taxoids : Novel Thia Derivatives of Docetaxel,
L. Mercklé, J. Dubois, E. Place, S. Thoret, F. Guérinne, D. Guénard, C. Poupat, A. Ahond, and P. Potier, *J. Org. Chem.*, 2001, **66**, 5058.

Synthèses Stéréosélectives des Acides 13E et 13Z Rétinoïques via un Nouvel Intermédiaire β -Méthylènealdehyde en C-15

A. Valla, Z. Andriamialisoa, V. Prat, A. Laurent, M. Giraud, R. Labia, and P. Potier, *Tetrahedron*, 2000, **56**, 7211.

New Synthetic Analogs of Retinoids : Synthesis of Aromatic Analogs of 9-Methylidene- and 13-Demethyl-9-methylidene-retinol, -retinal, and Ethyl 13-Demethyl-9-methylideneretinoate,

A. Valla, V. Prat, A. Laurent, Z. Andriamialisoa, D. Cartier, M. Giraud, R. Labia, and P. Potier, *Helv. Chim. Acta.*, 2001, **84**, 3423.

A Practical Synthesis of (2S,3R,4S)-4-Hydroxyisoleucine, A Potent Insulinotropic α -Amino Acid from Fenugreek,

Q. Wang, J. Ouazzani, N. A. Sasaki, and P. Potier, *Eur. J. Org. Chem.*, 2002, 834.

Synthesis of 5-deazathiogirollines : analogs of a natural antitumor agent,

B. Schiavi, A. Ahond, A. Al Mourabit, C. Poupat, A. Chiaroni, C. Gaspard, and P. Potier, *Tetrahedron*, 2002, **58**, 4201.