



## Adam DAÏCH, Ph.D Professor

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### EDUCATION

- ✓ Ph.D., Organic Chemistry, University of Le Havre, 1991
- ✓ B.S., Chemistry and Applied Industrial Process Engineering, University of Paris VI/ENSCP, 1987
- ✓ Master, Organic Chemistry, University of Rouen, 1986

### RESEARCH ACTIVITIES

- ✓ 1991-1992 and 1992-1993, Post-Doctoral position. University of Bratislava (Slovakia) and Le Havre
- ✓ 1993-2003, Assistant Professor, Chemistry Laboratory then URCOM, University of Le Havre
- ✓ Since 2004, Professor of Organic Chemistry, URCOM-EA 3221, CNRS-INC3M FR3038, University of Le Havre

### CURRENT MAIN RESEARCH TOPICS

- Iminium, thionium, acylium and *N*-acyliminium ions alone or in tandem with known reactions. Particular attention is paid on heterocyclization process using N, O, S and Se heteroatoms as internal nucleophiles.
- Synthesis of cytotoxic and anticancer analogues of the topoisomerase-I poisons Camptothecin, Aromathecine and Luotonin-A. Extraction, total synthesis and biological properties of natural products and analogues.
- Synthesis of fused pyrrolidone and isoindolone heterocyclic systems including alkaloid derivatives, peptidomimetics and products with NCS activities. Use of *N*-acyliminium chemistry as a key step.
- Elaboration of new tandem and cascade synthetic methodology to access natural and unnatural spiroindole-heterocycles. Synthesis and evaluation of their Biological properties.
- Asymmetric synthesis of polyhydroxylated alkylindolizidines as new potentially inhibitors of glycosidases using furan, thiophene and benzo[*b*]thiophene rings as alkyl and/or arylalkyl source. *Subject in collaboration.*

**Scientific publications:** 80 (ACS, Wiley, Thieme, ScienceDirect, Taylor&Francis, Bentham)

**Invited conferences & conference/seminars, oral communications and posters:** 123 (26/10/87)

**Scientific direction of BS/Master/Post-doc/Thesis:** 27 (1/6/4/12; 1 post-doc and 3 thesis currently)

**Expertises:** ECOS, ANR, ACS, Wiley, Thieme, ScienceDirect, Bentham

**Congress:** Organisation and co-organisation of one and two international colloquiums, respectively.

### ACTUAL TEACHING EXPERIENCE and ADMINISTRATIVE ACTIVITIES

- ✓ Spectroscopic analysis (UV, IR, NMR, etc.), BS level (L2 and L3); Mass Spectroscopy and Kinetic, BS level (L3)
- ✓ Organic chemistry, Industrial organic chemistry and Chemistry of natural products, BS level (L3)
- ✓ Asymmetric synthesis and Fragrance aromatic molecules, MS level (Master professional-Le Havre)
- ✓ Synthesis of polyheteroatomic heterocycles and Indole chemistry MS level (Master Research-Rouen)
- ✓ Responsible for L1/2 and license Chemistry (BS level), University of Le Havre, Since Sept 2004 and 2008
- ✓ Responsible for Master in Organic Chemistry (University of Le Havre branch), Since March 2007

### RESEARCH SUPPORT

- ✓ Janssen-Cilag (France) and Johnson-Johnson (Belgium) pharmaceutical companies.
- ✓ Interregional-IVA (2009-20013): Normand – South England European program.
- ✓ Syrian, Libyan and French government's scholar ships for PhD and/or post-doctoral positions.
- ✓ CRuNCh: Normand program, Region of High Normandy and Scientific council of the University of Le Havre.
- ✓ Weda Bay Nickel/WBN (Jakarta/Indonesia).
- ✓ Biopharmaca Research Center-IPB (Bogor-West Java/Indonesia).



## LIST OF PUBLICATIONS

### 1.1. Publications during Ph.D.

- 1p. Réarrangement de thiénobenzothiépines en thiénoisothiazolinones et benzoisothiazolinones. A. DAÏCH, B. DECROIX\* **J. Heterocycl. Chem.**, 1991, **28**, 1881–1884
- 2p. A convenient route to diazepines by intramolecular cyclisation of carbonylazides. A. DAÏCH, F. POVAZANEC, B. DECROIX\* **J. Heterocycl. Chem.**, 1991, **28**, 1911–1915
- 3p. Agents à potentialités biologiques: Synthèse de thiéno pyrrolo[1,4]diazépines ainsi que de quelques dérivés. A. DAÏCH, B. DECROIX\* **Bull. Soc. Chim. Fr.**, 1992, **129**, 360–368
- 4p. On the synthesis and reactivity of 4,10-dihydrobenzo[*b*]thieno[2,3-*e*]thiépines-10-acetic acid and 5,10-dihydrobenzo[*e*]thieno[3,2-*b*]thiépines-10-acetic acid. A. DAÏCH, B. DECROIX\* **J. Heterocycl. Chem.**, 1992, **29**, 1789–1795
- 5p. A novel practical synthesis of pyrrolo[1,2-*a*]thieno[2,3-*e*][1,4]diazepines. A. DAÏCH, J. MOREL, B. DECROIX\* **J. Heterocycl. Chem.**, 1993, **30**, 675–678

### 1.2. Publications after Ph.D.

- 6p. Research on nitrogen and sulfur heterocyclic compounds: Synthesis of 10*H*-pyrrolo[1,2-*a*]thieno[3,4-*e*][1,4]diazepin-5(4*H*)-one and some derivatives. A. DAÏCH, B. DECROIX\* **J. Heterocycl. Chem.**, 1994, **31**, 341–344
- 7p. First synthesis and Diels-Alder reaction of thieno[2,3 and 3,2-*f*]indolizines. A. DAÏCH, P. OHIER, B. DECROIX\* **Tetrahedron Lett.**, 1995, **36**, 83–86
- 8p. Synthesis of a new pyrrolo[1,3]diazepine: 4*H*-pyrrolo[1,2-*a*]thieno[2,3-*e*][1,3]diazepine. A. DAÏCH,\* P. OHIER, B. DECROIX\* **J. Heterocycl. Chem.**, 1995, **32**, 1731–1734
- 9p. [1]Benzothienoindolizidinones and [1]benzothienoquinolizidinones: Synthesis and Schmidt rearrangement into [1,3]diazepines derivatives. A. DAÏCH, B. DECROIX\* **J. Heterocycl. Chem.**, 1996, **33**, 873–878
- 10p. Synthesis and reactivity of oxopyrrolidinothieno[2]azepinones: [3]Benzazepines anti-depressants analogues. A. MAMOUNI, A. DAÏCH,\* B. DECROIX **J. Heterocycl. Chem.**, 1996, **33**, 1251–1258
- 11p. Pyrrolo[1,4]diazepines, *via* thermolysis of carbonylazides, and [3,2,2]cycloazines, *via* Diels-Alder reaction of [*f*]indolizines, annelated to [1]benzothiophene. P. OHIER, A. DAÏCH,\* B. DECROIX **Tetrahedron**, 1996, **52**, 13547–13556
- 12p. Regioselective conversion of lactam to corresponding thiolactam in tetrahydropyrrolo[1,2-*a*]thieno[3,2-*e*][1,3]diazepines. A. MAMOUNI, P. NETCHITAILO, A. DAÏCH, B. DECROIX\* **Phosphorus, Sulfur and Silicon**, 1996, **1**, 169–179

- 13p. Tetracyclic systems: An efficient and rapid synthesis of new pyrrolothieno[1,3]thiazocines. A. MAMOUNI, A. DAÏCH,\* B. DECROIX **Synth. Commun.**, 1997, **27**, 2241–2249
- 14p. A non classical reaction of 2(or3)-bromomethyl-3(or 2)-nitrothiophenes towards bases. A. DAÏCH,\* Y. PRIGENT, B. DECROIX **Phosphorus, Sulfur and Silicon**, 1997, **127**, 91–95
- 15p. Synthesis of 5-chloropyrrole carboxaldehydes from 5-oxopyrrolidine carboxamides. P. NETCHITAÏLO,\* M. OTHMAN, A. DAÏCH, B. DECROIX **Tetrahedron Lett.**, 1997, **38**, 3227–3230
- 16p. Intramolecular  $\alpha$ -amidoalkylation cyclizations in synthesis of novel pyrrolo(or isoindolo)thieno[2]benzazepines. A. MAMOUNI, P. PIGEON, A. DAÏCH, B. DECROIX\* **J. Heterocycl. Chem.**, 1997, **34**, 1495–1499
- 17p. Palladium (II) catalyzed cyclization: A facile access to new difunctionalized thieno[3,2-f]indolizine. A. MAMOUNI, A. DAÏCH,\* B. DECROIX **Synth. Commun.**, 1998, **28**, 1839–1846
- 18p. Synthesis of benzo(or furo)[5,6]azepino[2,1-*a*]isoindolone derivatives:  $\pi$ -Cyclisations of *N*-acyliminium ions. A. DAÏCH,\* S. MARCHALIN, P. PIGEON, B. DECROIX **Tetrahedron Lett.**, 1998, **39**, 9187–9190
- 19p. Synthesis of isoindolo[1,3]benzoxazine derivatives through intramolecular arylation of *N*-acyliminium ions. N. HUCHER, A. DAÏCH,\* B. DECROIX **J. Heterocycl. Chem.**, 1998, **35**, 1477–1483
- 20p. A facile fused-dioxaza-ring synthesis from *N*-hydroxyphthalimide. A. BARTOVIC, P. NETCHITAÏLO,\* A. DAÏCH, B. DECROIX **Tetrahedron Lett.**, 1999, **40**, 2117–2120
- 21p. Newly intramolecular  $\alpha$ -amidoalkylation cyclisation: Use of the *N*-acyliminium ion with a sulfur atom as a nucleophile. N. HUCHER, A. DAÏCH,\* P. NETCHITAÏLO, B. DECROIX **Tetrahedron Lett.**, 1999, **40**, 3363–3366
- 22p. Diastereoselective introduction of carbon chain to carbonyl of enamidone functionality in isoindole series: A convenient route to chiral aza-analogues of senkyunolide-*E*. A. CHIHAB-EDDINE, A. DAÏCH,\* A. JILALE, B. DECROIX **Heterocycles**, 1999, **51**, 2907–2914
- 23p. Quinoxalines, benzodiazepines and benzodiazocines fused to pyrrole and isoindole *via N*-acyliminium ion aromatic cyclization. M. OTHMAN, P. PIGEON, P. NETCHITAÏLO, A. DAÏCH, B. DECROIX\* **Heterocycles**, 2000, **52**, 273–281
- 24p. Formation of new 5,11b-bridged isoindolo[2,1-b]isoquinolinones alkaloids through a tandem Pummerer/ $\pi$ -cationic cyclisation. N. HUCHER, A. DAÏCH,\* B. DECROIX **Org. Lett.**, 2000, **2**, 1201–1204
- 25p. Reactivity of *N*-benzyl-3-nitrophthalimide: A facile access to isoindolo[1,2-*d*][3,5]benzothiazocine derivatives. A. CHIHAB-EDDINE, A. DAÏCH,\* A. JILALE, B. DECROIX **J. Heterocycl. Chem.**, 2000, **37**, 1543–1548
- 26p. New synthesis of the calcium antagonist *Nilvadipine*. M. CHUDIK, S. MARCHALIN, A. DAÏCH,\* B. DECROIX **Res. Adv. Synth. Org. Chem.**, 2000, **1**, 1–7 (Part of Book)
- 27p. Facile access to 6-substituted 1,4,5,7-tetrahydropyrrolo[3,4-*b*]pyridines *via* Hantzsch type dimethyl 4-aryl-2-formyl-6-methyl-1,4-dihydropyridine-3,5-dicarboxylates. M. CHUDIK, S. MARCHALIN, P. KNESL, A. DAÏCH,\* B. DECROIX **J. Heterocycl. Chem.**, 2000, **37**, 1549–1554
- 28p. Azepine and [1,3]oxazepine fused ring construction through an intramolecular cationic cyclization: An *N*-acyliminium ion trapping of oxygen atom or olefin. A. MAMOUNI, A. DAÏCH,\* S. MARCHALIN, B. DECROIX **Heterocycles**, 2001, **54**, 275–282

- 29p.  $\pi$ -Aromatic and sulfur nucleophilic partners in cationic  $\pi$ -cyclizations: Intramolecular amidoalkylation and thioamidoalkylation cyclization *via*  $\omega$ -carbinol lactams. N. HUCHER, B. DECROIX, A. DAÏCH\* **J. Org. Chem.**, 2001, **66**, 4695–4703
- 30p. Synthesis and reactivity of (1S)-N-(1-phenylethyl)maleimide towards nucleophiles: A application to preparation of chiral pyrroloisothiochroman and pyrrolobenzo[d]thiepine based on  $\pi$ -cationic cyclization. A. CHIHAB-EDDINE, A. DAÏCH\* A. JILALE, B. DECROIX **Tetrahedron Lett.**, 2001, **42**, 573–576
- 31p. Novel synthesis of densely functionalized indolizines, di- and tetrahydroindolizines from 2-formyl-1,4-dihydropyridine systems based on cascade process. S. MARCHALIN, K. CVOPOVA, D. P. PHAM-HUU, M. CHUDIK, J. KOZISEK, I. SVOBODA, A. DAÏCH\* **Tetrahedron Lett.**, 2001, **42**, 5663–5667
- 32p. Conformationally constrained 1,4 DHPs. A convenient route to bis-1,4-DHPs as a novel class of nitrogen compounds. S. MARCHALIN, M. CHUDIK, K. CVOPOVA, J. KOZISEK, J. LESKO, A. DAÏCH\* **Tetrahedron**, 2002, **58**, 5747–5754
- 33p. Diastereoselective access to chiral non-racemic [1,3]oxazolo[2,3-*a*]isoindol-5-one ring systems *via* *O*-cationic cyclization. J. SIKORAIOVA, S. MARCHALIN, A. CHIHAB-EDDINE, A. DAÏCH\* **J. Heterocycl. Chem.**, 2002, **39**, 383–390
- 34p. Acid mediated intramolecular cationic cyclization using an oxygen atom as internal nucleophile: Synthesis of substituted oxazolo-, oxazino- and oxazepino-isoindolinones. J. SIKORAIOVA, S. MARCHALIN, A. DAÏCH,\* B. DECROIX **Tetrahedron Lett.**, 2002, **43**, 4747–4751
- 35p. Studies on (1S)-N-(1-phenylethyl)phthalimide: Synthesis of both spiro indane and benzazepine derivatives. A. CHIHAB EDDINE, A. DAÏCH,\* A. JILALE, B. DECROIX **Heterocycles**, 2002, **58**, 449–456
- 36p. A facile access to substituted 2-ethynyl-1,4-DHPs from silicon reagents *via* Hantzsch three-component reaction. F. SZEMES. Jr, S. MARCHALIN, N. PRONAYOVA, F. SZEMES, A. DAÏCH\* **Heterocycles**, 2003, **59**, 779–784
- 37p. Evaluation of *N*-hydroxymethylphthalimide in alkaline medium: Novel entry to the tricyclic [1,3]oxazepine core *via* an intramolecular  $\pi$  and *O*-cationic cyclization. A. CUL, A. CHIHAB-EDDINE, A. PESQUET, Š. MARCHALIN, A. DAÏCH\* **J. Heterocycl. Chem.**, 2003, **40**, 499–505
- 38p. Regioselective Reduction of 2-(Arylidene-Amino)-Isoindole-1,3-Diones. Synthesis of Alkaloids Analogues *via* *N*-Acylhydrazonium Ion Aromatic  $\pi$ -Cyclization. A. FOGAIN-NINKAM, A. DAÏCH, B. DECROIX, P. NETCHITAÏLO\* **Eur. J. Org. Chem.**, 2003, 4273–4278
- 39p. New Resolution of 2-Formyl-1,4-DHP Derivatives Using CIDR Methodology. Facile Access to New Chiral Tricyclic Thiolactam. Š. MARCHALIN, K. CVOPOVA, M. KRIZ, P. BARAN, H. OULYADI, A. DAÏCH\* **J. Org. Chem.**, 2004, **69**, 4227–4237
- 40p. Diastereoselective access to hexahydro- and octahydrofuro[*f*]indolizines analogues of phenanthro[*f*]indolizidines alkaloids. F. SZEMES, K. KADLECIKOVA, Š. MARCHALIN, M. BOBOSIKOVA, V. DALLA, A. DAÏCH\* **Tetrahedron : Asymmetry**, 2004, **15**, 1763–1770
- 41p. Kinetic vs Thermodynamic Access to Imidazoisindolones, Benzimidazoisindolones, and [1,4]-Diazepinoisindolones: Intramolecular Nitrogen and  $\pi$ -Aromatic Trapping of *N*-Acyliminium Cation. A. CUL, A. DAÏCH,\* B. DECROIX, G. SANZ, L. VAN HIJFTE **Tetrahedron**, 2004, **60**, 11029–11039
- 42p. Cazolobine, a New Sesquiterpene from *Isolona hexaloba* (Annonaceae). H. MATHOUET, I. CAZOULAT, H. OULYADI, E. SEGUIN, A. DAÏCH, A. ELOMRI\* **Z. Naturforsch.**, 2004, **59b**, 1118–1120

- 43p. Access to the New Isoindolo[1,3]benzothiazocinones *via* the Combination of *N*-Acyliminium Chemistry and Friedel-Crafts Type  $\pi$ -Cyclization. A. CUL, A. DAĪCH,\* B. DECROIX, G. SANZ, L. VAN HIJFTE **Heterocycles**, 2004, **64**, 33–39
- 44p. Exocyclic-Endocyclic *N*-Acyliminium Ion Equilibration *via* an Intramolecular  $\alpha$ -Thioamidoalkylation in the Synthesis of Fused *N,S*-Heterocyclic Systems: Some New Parameters. N. HUCHER, A. PESQUET, P. NETCHITAĪLO, A. DAĪCH\* **Eur. J. Org. Chem.**, 2005, 2758–2770
- 45p. Development of New Acid-Catalyzed Formation of Tricyclic Thiolactams in Imidazolinone Series Based on the Cationic Cyclization: Use of the Unprecedented Heterocyclization/Double Transposition/Isomerisation of *N*-acyliminium ion Cascade. A. PESQUET, A. DAĪCH,\* B. DECROIX, L. VAN HIJFTE **Org. Biomol. Chem.**, 2005, **3**, 3937–3947
- 46p. Oxidized isoquinolinoisoindolinone and benzazepinoisoindolinone alkaloids cores by convergent cyclisation processes:  $\pi$ -aromatic attack of thionium and oxonium species. T. BOUSQUET, J. F. FLEURY, A. DAĪCH,\* P. NETCHITAĪLO **Tetrahedron**, 2006, **62**, 706–715
- 47p. Expedious and practical synthesis of the bioactive rutaecarpine and euxylophoricine A alkaloids and their heterocyclic homologues. A. HAMID, A. ELOMRI, A. DAĪCH\* **Tetrahedron Lett.**, 2006, **47**, 1777–1781
- 48p. Access to substituted thiapyrrolizidinones and fused pyridones using the domino *N*-acyliminium-thionium equilibrium/1,3-dipolar cycloaddition/desulfurization cyclization cascade. A. HAMID, H. OULYADI, A. DAĪCH\* **Tetrahedron**, 2006, **62**, 6398–6404
- 49p. General and Versatile Entry to Polyheterocyclic Systems Containing Imidazole Nucleus. Use of the Tandem Transposition/ $\pi$ -Cyclization of *N*-acyliminiums. A. PESQUET, A. DAĪCH,\* L. VAN HIJFTE **J. Org. Chem.**, 2006, **71**, 5303–5311
- 50p. A Tandem Michael Addition/Amino-Nitrile Cyclization from 2-Formyl-1,4-DHP in the Synthesis of Novel Dihydroindolizine-Based Compounds. Š. MARCHALIN, B. BAUMLOVA, P. BARAN, H. OULYADI, A. DAĪCH\* **J. Org. Chem.**, 2006, **71**, 9114–9127
- 51p. An Expedient Synthesis of 7(*S*)-Ethyl-8(*R* or *S*)-Indolizidinols Based on a Thiophene Reductive Desulfurization. Š. MARCHALIN, J. ŽŮŽIOVA, K. KADLECIKOVA, P. ŠAFAR, P. BARAN, V. DALLA, A. DAĪCH\* **Tetrahedron Lett.**, 2007, **48**, 697–702
- 52p. CIAT with simultaneous epimerization at two stereocenters. Synthesis of substituted  $\beta$ -methyl- $\alpha$ -homophenylalanines. D. BERKEŠ,\* P. JAKUBEC, D. WINKLEROVÁ, F. POVAŽANEC, A. DAĪCH\* **Org. Biomol. Chem.**, 2007, **5**, 121–124
- 53p. Intermolecular and Intramolecular  $\alpha$ -Amidoalkylation Reactions Using Bismuth Triflate as the Catalyst. F. PIN, S. COMESSE, B. GARRIGUES, Š. MARCHALIN, A. DAĪCH\* **J. Org. Chem.**, 2007, **72**, 1181–1191
- 54p. An alkaloid, two conjugate sesquiterpenes and a phenylpropanoid from *Pachypodanthium confine* Engl. and Diels H. MATHOUET, A. ELOMRI, P. LAMEIRAS, A. DAĪCH, P. VERITE\* **Phytochemistry**, 2007, **68**, 1813–1818
- 55p. An easy Access to the Exocyclic Lactams Analogous of the central nervous system (CNS) Active Tricyclic Nitroxapine, Mianserine and Chlothiapine Agents using *N*-Acyliminium Chemistry. A. HADOU, A. HAMID, H. MATHOUET, M.-F. DEIDA, A. DAĪCH\* **Heterocycles**, 2008, **76**, 1017–1022
- 56p. An Unusual Polyheterocyclic Diversity by the  $\pi$ -Cyclization of *N*-Carbamoyliminium ion associated or not with *N,N*-Acetal Cleavage from Spiro-[imidazolidinoquinazolinones]. A. PESQUET, A. DAĪCH,\* S. COSTE, L. VAN HIJFTE **Synthesis**, 2008, 1389–1396

- 57p. Highly Diastereoselective Approach to Novel THF Fused Indolizidinols. A One-step Formation of Three Contiguous Stereocenters. P. ŠAFAR, J. ŽŮŽIOVA, M. BOBOŠÍKOVÁ, Š. MARCHALÍN, N. PRÓNAYOVÁ, V. DALLA, A. DAĪCH\* **Tetrahedron : Asymmetry**, 2008, **19**, 467–475
- 58p. A Domino *N*-Amidoacylation/Aldol-Type Condensation Approach to the Synthesis of the Topo-I Inhibitor Rosettacin and Derivatives. F. PIN, S. COMESSE, M. SANSELME, A. DAĪCH\* **J. Org. Chem.**, 2008, **73**, 1975–1978
- 59p. New and Expendious Tandem Sequence Aza-Michael/Intramolecular Nucleophilic Substitution Route to Substituted  $\gamma$ -Lactams: Synthesis of the Tricyclic Core of ( $\pm$ )-Martinellines. S. COMESSE,\* M. SANSELME, A. DAĪCH **J. Org. Chem.**, 2008, **73**, 5566–5569
- 60p. A novel and expeditious approach to symmetrical and unsymmetrical 5,5-spiroimide building blocks. I. ALLOUS, S. COMESSE, A. DAĪCH\* **Lett. Org. Chem**, 2008, **5**, 73–78
- 61p. Unexpected reversible nitrogen atom transfer in the synthesis of polysubstituted imides and 7-aza-hexahydroindolones via enamionitrile  $\gamma$ -lactams. N. OUKLI, S. COMESSE,\* N. CHAFI, H. OULYADI, A. DAĪCH\* **Tetrahedron Lett.**, 2009, **50**, 1459–1462
- 62p. Highly diastereoselective approach to novel phenylindolizidinols via benzothieno analogues of tylophorine based on reductive desulfurization of benzo[*b*]thiophene. P. ŠAFAR, J. ŽŮŽIOVA, Š. MARCHALÍN, M. BOBOŠÍKOVÁ, E. TÓTHOVÁ, N. PRÓNAYOVÁ, L. ŠVORC, V. VRÁBEL, A. DAĪCH\* **Tetrahedron : Asymmetry**, 2009, **20**, 626–634
- 63p. Toward the improvement of the tandem halide displacement/amide coupling spiro-cyclization as a new route to  $\gamma$ -lactam and pyrroloisoquinoline templates. I. ALLOUS, S. COMESSE,\* D. BERKEŠ, A. ALKAYAT, A. DAĪCH\* **Tetrahedron Lett.**, 2009, **50**, 4411–4415
- 64p. An enantioselective approach to synthesis of advanced chiral templates for the construction of indolic and indolizidinic alkaloids. R. AFFANI, S. COMESSE,\* A. DAICH,\* L. HAMON, C. KADOURI-PUCHOT\* **Heterocycles**, 2009, **78**, 2193–2199
- 65p. Synthesis and reductive desulfurization of chiral non-racemic benzothienoindolizines. An efficient approach to a novel bioactive tylophorine alkaloid analogue and 6-phenylindolizidine. P. ŠAFAR, J. ŽŮŽIOVA, M. BOBOŠÍKOVÁ, Š. MARCHALÍN, N. PRÓNAYOVÁ, S. COMESSE, A. DAĪCH\* **Tetrahedron : Asymmetry**, 2009, **20**, 2137–2144
- 66p. Association of Intramolecular Furan Diels-Alder Reaction/*N*-Acyliminium Alkylation for the Synthesis of Pentacyclic Precursor of Aromathecins. F. PIN, S. COMESSE, A. DAICH\* **Synlett**, 2009, 3214–3218
- 67p. Regioselective Ring Opening of the Chiral Non-Racemic Furoindolizidinols. Novel and Easy Access to Alkylindolizidinediol Derivatives. P. ŠAFAR, J. ŽŮŽIOVA, Š. MARCHALÍN, P. ZÁLUPSKY, N. PRÓNAYOVÁ, L. ŠVORC, V. VRÁBEL, S. COMESSE, A. DAĪCH\* **Tetrahedron : Asymmetry**, 2010, **21**, 623–630
- 68p. Toward new camptothecins. Part 6: Synthesis of crucial ketones and their use in the Friedländer reaction. L. GAVARA, T. BOISSE, J-P. HÉNICHART, A. DAICH, B. RIGO,\* P. GAUTRET **Tetrahedron**, 2010, **66**, 7544–7561
- 69p. Use of the cascade  $\alpha$ -oxo-amidoalkylation/transposition/ $\pi$ -cationic cyclization of *N*-acyliminium ions in the synthesis of novel fused heterocyclic *N,O*-acetals. A. PESQUET, L. VAN HIJFTE, A. DAICH\* (**ARKIVOC Issue in Honor of Drs. Cynthia A. and Bruce E. Maryanoff from Johnson & Johnson Pharmaceutical Company**), **Arkivoc**, 2010, (viii) 27–40
- 70p. Formal [3+2] Cycloaddition-Based Approach Using Ethoxymethylene Malonate Derivatives: Novel and Expedient Access to Functionalized *N*-Acyliminium Precursors. M. SABER, S. COMESSE,\* V. DALLA,\* A. DAICH,\* M. SANSELME, P. NETCHITAILO **Synlett**, 2010, 2197–2201

- 71p. Intramolecular N-aza-amidoalkylation in association with Witkop-Winterfeldt oxidation as the key step to synthesize Luotonin-A analogues. *F. PIN, S. COMESSE, A. DAICH\** **Tetrahedron**, 2011, **67**, 5564–5571
- 72p. Expedient and Practical Synthesis of CERT-Dependent Ceramide Trafficking Inhibitor HPA-12 and Its Analogues. *A. ĎURIS, T. WIESENGANGER, D. MORAVCIKOVA, P. BARAN, J. KOZISEK, A. DAICH, D. BERKES\** **Org. Lett.**, 2011, **13**, 1642–1645; Hot Paper highlighted in **Synfacts**, 2011, **7**, 698–698
- 73p. Constrained Tetramic Acids, Homostreptopyrrolidine, and their Analogues Based on Unusual Intramolecular Wittig Olefination with Phosphorus Ylides. *A. ĎURIS, A. DAICH,\* D. BERKES\** **Synlett**, 2011, 1631–1637
- 74p. Synthesis of analogue to the Cytotoxic Alkaloid Camptothecin. *A. HAMID,\* A. DAICH\** **Proceedings of World Academy of Science, Engineering and Technology**, 2011, **73**, 594–597
- 75p. Domino Process Optimized *via ab Initio* Study for an Alternative Access to Bicyclic Lactams. *S. COMESSE,\* A. MARTEL,\* A. DAICH* **Org. Lett.**, 2011, **13**, 4004–4007
- 76p. Acid-Promoted Aza-Cyclization versus  $\pi$ -Cyclization of *N*-Acyliminium Species into Fused Pyrrolo[1,2-*a*]-imidazolones and Pyrrolo[2,1-*a*]isoquinolinones. *J.-F. FLEURY, P. NETCHITAILO, A. DAICH\** **Synlett**, 2011, 1821–1826
- 77p. Proximal Ester Assistance *versus* Stereoelectronic Prohibition in Catalytic *N*-acyliminium Ion Reactions: Stereoselective Formation of Aza-Heterocycles with two Contiguous Quaternary-Tertiary Stereocenters. *M. SABER, S. COMESSE,\* V. DALLA,\* P. NETCHITAILO, A. DAICH* **Synlett**, 2011, 2425–2429
- 78p. Diastereoselective Access to Tri- and Pentacyclic Spiro- $\gamma$ -lactam-oxindole Cores through a Tandem Aza-Michael Initiated Ring Closure Sequence. *I. ALLOUS, S. COMESSE,\* M. SANSELME, A. DAICH* **Eur. J. Org. Chem.**, 2011, 5303–5310
- 79p. Novel extension of diethyl ethoxymethylenemalonate (DEEMM) as formic acid equivalent in new effective synthesis of *N*<sub>3</sub>-alkyl and *N*<sub>3</sub>-arylquinolin-4-ones. *A. HADOU, A.-M. LAWSON, S. COMESSE, M.-F. OULD DEIDA, A. DAICH \** **Monatsh. Chem.**, 2012, **Submitted**
- 80p. A combined chemical, biological, and theoretical DFT–QAIM studies of new potentially glycosidases inhibitors based on quaternary indolizinium salts. *P. ŠAFAR, J. ŽUZIOVA, Š. MARCHALIN, N. PRONAYOVA, L. ŠVORC, V. VRABEL, S. ŠESTAK, J. MUCHA, V. TOGNETTI, L. JOUBERT, A. DAICH\** **Chem. Eur. J.**, 2012, **Submitted**



## 2. LIST OF COMMUNICATIONS

### 2-1-INVITED CONFERENCES AND CONFERENCE/SEMINARS

- 1c. Invited conference/Seminar: Laboratory of Physical-Chemistry of the Interfaces and the Reactional Middles (LPIMR-LRC-MO2). Tours, April 29, **2002**, France. Apport des ions *N*-acyliminiums en synthèse hétérocyclique: "Systèmes polyhétérocycliques condensés azotés, oxygénés et/ou soufrés". **Adam Daich**
- 2c. XVI<sup>th</sup> Conference of Organic Chemists, New Trends in Organic Synthesis, Stará Lesná. September 1-5, **2002**, Republic Slovak. Highly diastereoselective syntheses of substituted di- and tetrahydroindolizines. **Štefan Marchalín, Katarína Cvopová, Adam Daich, Bernard Decroix**



- 3c. Invited Conference/Seminar: University of Nouakchott, Faculty of Sciences & Techniques, Nouakchott. May 25, **2004**, Mauritania. Aza-Heterocyclic Synthesis via Domino Cascade Processes including N-acyliminium Species. Access to Polyheterocyclic Systems. **Adam Daïch**
- 4c. Invited Conference/Seminar: University of Nouakchott, Faculty of Sciences & Techniques, Nouakchott. May 28, **2004**, Mauritania. Synthèse d'Alcaloïdes et de Systèmes N-Hétérocycliques en relation avec les Alcaloïdes par la Chimie des Ions N-Acyliiminiums : Cyclization  $\pi$ -Cationique. **Adam Daïch**
- 5c. Invited Conference at "I<sup>o</sup> Congreso Marroquí-Español Sobre la Química Organica-IV<sup>o</sup> Encuentro Andaluz-Marrquí Sobre la Química de Productos Naturales" (1<sup>st</sup> Morocco-Español Congress on the Organic chemistry and 4<sup>th</sup> Meeting Andalusian-Moroccan on the Chemistry of the Natural Products), Marrakech. September 16-19, **2004**, Morocco. L'hétérocyclisation en chimie des ions N-acyliiminiums: approches et résultats en synthèse d'hétérocycles fusionnés d'intérêt biologique. **Adam Daïch**
- 6c. Invited conference in Trans-Mediterranean Colloquium on Heterocyclic Chemistry (TRAMECH III), Marrakech. November 23-27, **2004**, Morocco. Hétérocycles Soufrées & Azotés Fusionnés d'Intérêt Biologique :  $\alpha$ -Hétéroamido-alkylation Intramoléculaire via les Ions N-Acyliiminiums. **Adam Daïch**
- 7c. Invited conference in the II<sup>nd</sup> National Meeting on the Molecular Chemistry (RNCMD-2), Béni-Mellal. May 19-20, **2005**, Morocco. A Propos de l'Hétérocyclisation en Chimie des Ions N-Acyliiminiums N,Z-Acétals Polyhétérocycliques Mixtes, les Lactames Bicycliques. **Adam Daïch**
- 8c. Cycle of conferences organized by the French Society of chemistry (SFC), Institute of Organic and Applied chemistry (ICOA CNRS-UMR 6005), University of Orléans, Orléans. Avril 5, **2005**, France. A Propos de l'Hétérocyclisation en Chimie des Ions N-Acyliiminiums: N,Z-Acétals Polyhétérocycliques Mixtes, les Lactames Bicycliques. **Adam Daïch**
- 9c. Cycle of conferences organized by the French Society of chemistry (SFC), Laboratory of Asymmetric Synthesis (LSA CNRS-UMR 7611), University of Pierre & Marie Curie, Paris. July 14, **2005**, France. A Propos de l'Hétérocyclisation en Chimie des Ions N-Acyliiminiums: Accès aux Acétals Mixtes, les Lactames Tricycliques, les Lactames Bicycliques. **Adam Daïch**
- 10c. Invited conference: 6<sup>th</sup> National meeting on the Heterocyclic Chemistry (RNCH6) organized by the Moroccan Group of Heterocyclic Chemistry (GMCH), University of Hassan II, Mohammedia, Faculty of Sciences, Ben M'sik, Casablanca. May 25-26, **2007**, Morocco. Analogues Hétérocycliques des Alcaloïdes, Camptothécine, Rutaecarpine et Luotonine. Agents à Fort Potentiel Cytotoxique. **Adam Daïch**
- 11c. Invited conference/Seminar: University of Nouakchott, Faculty of Sciences & Techniques, Nouakchott. May 18, **2007**, Mauritania. Analogues Hétérocycliques des Alcaloïdes, Camptothécine, Rutaecarpine et Luotonine. Agents à Fort Potentiel Cytotoxique. **Adam Daïch**
- 12c. Invited conference: II<sup>th</sup> International meeting on Molecular Chemistry (RICMD-3), Marrakech. November 22-24, **2007**, Morocco. Simples Approches vers des Alcaloïdes Quinazoliniques Pentacycliques et leurs Dérivés: Inhibiteurs Potentiels de la Topoisomérase I. **Adam Daïch**
- 13c. Invited conference: VII<sup>th</sup> National Symposium on Organic, Industrial and Pharmaceutical Chemistry (SNCOIP-VII), Tlemcen. December 13-14, **2008**, Algeria. Les Alcaloïdes Quinazoliniques et Dérivés: Analogues Pentacycliques des Aromathécines Inhibiteurs Potentiels de la Topoisomérase I. **Adam Daïch**
- 14c. Invited conference: VI<sup>th</sup> International Colloquium on Heterocyclic Chemistry (CH4-2009), University Es-Sénia of Oran, Faculty of Sciences, Oran. April 21-22, **2008**, Algeria. Hétérocyclisation en Chimie des Ions N-Acyliiminiums: Plateformes Simples vers des Lactames Bicycliques d'Intérêts. **Adam Daïch**



- 15c. Invited conference: Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH VI-Hammamet, november 04-07, **2009**, Tunisia. Recent contributions in synthesis of aromathécines with topoisomerase-I inhibitory potential to Natural Products. **Adam Daïch**
- 16c. Invited conference/seminar: University of Nouakchott, Faculty of Sciences & Techniques, Nouakchott. February 17, **2010**, Mauritania. Systèmes pentacycliques naturels et non naturels de la famille des aromathécines inhibiteurs de la topoisomerase-I. **Adam Daïch**
- 17c. Invited conference: INHA University, Department of Organic Chemistry, Incheon, Seoul 13<sup>th</sup> April **2010**, South Korea. Recent contributions in synthesis of the cytotoxic and anticancer aromathécines as the topoisomerase-I inhibitors. **Adam Daïch**
- 18c. Invited conference: INHA University, Department of Organic Chemistry, Incheon, Seoul 14th April **2010**, South Korea. Novel investigations on heterocyclization processes in N-acyliminium area. Use of heteroatoms as internal nucleophiles. **Adam Daïch**
- 19c. Invited conference: IV International Conference CBC-2010 "Modern Aspects of Chemistry of Heterocycles", August 2–6, **2010**, Saint-Petersburg (Russia). Heterocyclization Processes in N-Acyliminium Chemistry; Simple Platforms into Bicyclic Lactams of Biological Interests. **Adam Daïch**
- 20c. Invited conference: 1<sup>st</sup> French-Romanian Colloquium on Medicinal Chemistry (Primul Colocviu Franco-Roman de Chimie Medicala), October 07-08 octobre, **2010**, University of Alexandru Ioan Cuza, Iasi (Romania). Contributions récentes dans la synthèse des aromathécines inhibiteurs potentiels la topoisomérase-I. **Adam Daïch**
- 21c. Invited conference: INHA University, Department of Organic Chemistry, Incheon, Seoul 19th April **2011**, South Korea. Exploratory Synthesis of Heterocyclic Analogues of the Alkaloids Nuevamine & Lennoxamine: Use of N-Acyliminiums, Acyliums & Thioniums Chemistry. **Adam Daïch**
- 22c. Invited Conference/Seminar: COBRA UMR-6014, Faculty of Sciences & Techniques, University of Rouen. May 20, **2011**, France. Simples Approches vers des Systèmes Pentacycliques Apparentés aux Aromathécines Inhibiteurs Efficaces de la Topoisomérase-I. **Adam Daïch**
- 23c. Invited Conference/Seminar: LCMT, UMR-CNRS 6507, Faculty of Sciences & Techniques, University of Caen. June 24, **2011**, France. L'Hétérocyclisation dans la Chimie des Ions N-Acyliminiums: Simples Approches vers les Lactams Polyhétérocycliques. **Adam Daïch**
- 24c. Invited/Seminar: Indonesia Bogor Agricultural University (IPB), Bogor - West Java, Indonesia. November 08, **2011**, Indonesia. Ions N-acyliminiums species for the elaboration of heterocyclic systems with high biological interests. **Adam Daïch**
- 25c. Invited/Seminar: Department of Pharmaceutical chemistry, Faculty of Pharmacy, University Gadjah Mada, Yogyakarta, Indonesia. November 09, **2011**, Indonesia. Ions N-acyliminiums species for the elaboration of heterocyclic systems with high biological interests. **Adam Daïch**
- 26c. Invited Conference: 1<sup>st</sup> Colloquium of Chemistry " La Chimie au service du développement durable de la Mauritanie". Department of Chemistry, Faculty of Sciences & Techniques, University of Nouakchott. 21-23 November 2011, Nouakchott, Mauritania. Accès aisé à des Analogues Hétérocycliques des Alcaloïdes Nuévamine & Lennoxamine : Exploration de la Chimie des ions N-Acyliminiums, N-Acyliums & Thioniums. **Adam Daïch**

## 2-2-COMMUNICATIONS IN CONGRESSES (ORAL AND/OR POSETR)

## 2-2-1- REGIONAL COMMUNICATIONS

- 1r. Day of the Regional section of the French Society of Chemistry (SFC) at Mt-St-Aignan. University of Rouen. May 6, 1993, France (**poster**). *Recherche dans la série des hétérocycles soufrés et azotés: synthèse de la 10H-pyrrolo[1,2-a]thieno[3,4-e][1,4]diazepin-5(4H)-one et dérivés*. A. DAÏCH, J. MOREL, B. DECROIX
- 2r. "Intra Muros" IRCOF Congress at Mt- St- Aignan. University of Rouen, June 30 - July 1<sup>er</sup>, 1997, France (**poster**). Cyclisation intramoléculaire via amidoalkylation: Synthèse de nouvelles pyrrolo(ou isoindolo)thieno[2]-benzazepines et thieno[f]indolizines. A. MAMOUNI, P. PIGEON, A. DAÏCH, B. DECROIX
- 3r. Interdisciplinary day of the Norman Doctoral School of Chemistry & Biology. University of Caen, ISMRA. March 22, 2001, France (**poster**). N-Phényl trifluorométhanesulfonimide PhNTf<sub>2</sub> : Un nouveau réactif pour la synthèse in situ d'amines à partir d'alcools. V. GASPARIK, V. DALLA-LIBERA, A. DAÏCH, B. DECROIX
- 4r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie. University of Le Havre, March 18, 2005, France (**poster**). Contribution à l'étude d'Isolona hexaloba (Annonaceae). H. MATHOUET, P. VERITE, H. OULYADI, P. LAMEIRAS, E. SEQUIN, A. DAÏCH, A. ELOMRI
- 5r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie. University of Le Havre, March 18, 2005, France (**poster**). *Use of N-Acyliminium Chemistry and Diels-Alder Combination to Access the Rare Isoindoloiso-quinolinone Alkaloid Core*. F. PIN, A. DAÏCH, P. NETCHITAÏLO
- 6r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie. University of Le Havre, March 18, 2005, France (**poster**). *New Approach to the Bioactive Natural Product Rutaecarpine and its Heterologues via the Amino-Ester / Thioimine Cyclocondensation*. A. HAMID, H. ELOMRI, A. DAÏCH
- 7r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie. University of Le Havre, March 18, 2005, France (**poster**). *New Approach to Oxidized Nuevamine and Lennoxamine Alkaloids Derivatives via the Tandem Amidoalkylation of N-Acyliminium ion/Friedel-Crafts Cyclization*. J-F. FLEURY, G. LEMONNIER, A. DAÏCH, P. NETCHITAÏLO
- 8r. Day of the Norman Doctoral School of Chemistry & Biology, Haute Normandie. University of Le Havre, March 18, 2005, France (**poster**). *Contribution à l'étude d'Isolona hexaloba (Annonaceae)*. H. MATHOUET, P. VERITE, H. OULYADI, P. LAMEIRAS, E. SEQUIN, A. DAÏCH, A. ELOMRI
- 9r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie. University of Le Havre, March 18, 2005, France (**poster**). *New Approach to the Bioactive Natural Product Rutaecarpine and its Heterologues via the Amino-Ester/Thioimine Cyclocondensation*. A. HAMID, H. ELOMRI, A. DAÏCH
- 10r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie, House of the University, Mt-St-Aignan. March 17, 2006, France (**poster**). *News and Convergent Approaches to Regioisomers of the Bioactive Natural Product Luotonin. Synthesis of Isoluotonin and its Substituted Homologues*. A. HAMID, H. OULYADI, A. DAÏCH
- 11r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie, House of the University, Mt-St-Aignan. March 17, 2006, France (**poster**). *Towards the Oxidation of Fused or not Polyhydro-β-Carbolines. Application to the Synthesis of Phenyl Analogue of the Antibiotic Pyridindolol*. F. PIN, S. COMESSE, P. NETCHITAÏLO, A. DAÏCH
- 12r. Day of the Norman Doctoral School of Chemistry& Biology, Haute Normandie, House of the University, Mt-St-Aignan. March 17, 2006, France (**oral+poster**). *Synthèse d'Homologues Hétérocycliques de l'Alcaloïde Nuévamine ; Utilisation de la Chimie des Ions N-Acyliminiums en Association avec la Cyclisation de Friedel-Crafts*. J.-F. FLEURY, A. DAÏCH, P. NETCHITAÏLO

- 13r. 10<sup>th</sup> Day of the Norman Doctoral School of Chemistry & Biology, Basse Normandie, Campus 1 of University of Caen. March 16, 2007, Caen, France (**poster**). *Méthodologie de Synthèse de Composés Diazaspiraniques-1,5*. I. ALLOUS, S. COMESSE, **A. DAÏCH**
- 14r. 10<sup>th</sup> Day of the Norman Doctoral School of Chemistry & Biology, Basse Normandie, Campus 1 of University of Caen. March 16, 2007, Caen, France (**poster**).  *$\alpha$ -Amidoalkylation Intramoléculaire et Intermoléculaire Catalysées par le Triflate de Bismuth Bi(OTf)<sub>3</sub>*. F. PIN, S. COMESSE, B. GARRIGUES, **A. DAÏCH**
- 15r. 11<sup>th</sup> Day of the Norman Doctoral School of Chemistry & Biology, Haute Normandie. University of Le Havre. March 14, 2008, Le Havre, France (**poster**). *Synthesis of Analogues of Spiro-oxindole Alkaloids*. I. ALLOUS, S. COMESSE, **A. DAÏCH**
- 16r. Day of the Norman Doctoral School of Chemistry, Basse Normandie, University of Caen. June 3, 2010, Caen, France (**poster**). *Investigations on the Domino N-Amidoacylation/Aldol Type Condensation for the Synthesis of the Bioactive Aromathecins and Analogs*. A. ANAMOUNE, A. M. LAWSON, S. COMESSE, **A. DAÏCH**
- 17r. Day of the Norman Doctoral School of Chemistry, Basse Normandie, University of Caen. June 3, 2010, Caen, France (**poster**). *Synthesis of potential mTOR inhibitors*. N. VAN HIJFTE, B. RIGO, P. GAUTRET, **A. DAÏCH**
- 18r. Day of the Norman Doctoral School of Chemistry, Haute Normandie, University of Le Havre. May 31, 2011, Le Havre, France (**poster**). *Unfrequented 1,6-Aza-Michael Addition on unsaturated diester chromone derivatives*. C. PINTIALA, A. M. LAWSON, S. COMESSE, **A. DAÏCH**
- 19r. Day of the Norman Doctoral School of Chemistry, Haute Normandie, University of Le Havre. May 31, 2011, Le Havre, France (**poster**). *Synthesis of Rosettacin analogs as topoisomerase- $\alpha$  inhibitors*. A. ANAMOUNE, A. M. LAWSON, S. COMESSE, **A. DAÏCH**

## 2-2-2-NATIONAL COMMUNICATIONS

- 1n. Day of Young Researchers of the French Society of chemistry (SFC), University of Rouen. October 8, 1991, France (**Oral**). *Agents à potentialités biologiques: Synthèse de thiéno pyrrolo[1,4]diazépines ainsi que quelques dérivés*. A. DAÏCH, B. DECROIX
- 2n. Techniqua Slovak University of Bratislava. July 3-4, 1992, Slovak republic (**Poster**). *Thermolysis in acidic medium of some substituted heterocyclic carbonylazides*. **A. DAÏCH**, F. POVAZANEC, B. DECROIX
- 3n. VIII<sup>th</sup> Days of Chemistry, Hammamet. November 6-8, 1994, Tunisia (**Poster**). *Synthèse en série thiophénique: Réarrangement des thiénoindolizinonethiones*. **A. DAÏCH**, S. MAMOUNI, B. DECROIX
- 4n. II<sup>nd</sup> National meeting on Heterocyclic Chemistry, Marrakech. May 3-4, 1996, Morocco (**Poster**). *Synthesis and reactivity of oxopyrrolidinothieno[2]azepinones: [3]benzazepines anti-depressant analogs*. A. MAMOUNI, **A. DAÏCH**, B. DECROIX
- 5n. III<sup>th</sup> National meeting on Heterocyclic Chemistry, Fès. 24-25 April, 1998, Morocco (**Poster**). *Synthese du 5-méthylisoindolo[1,2-b]benzazepine-7,13(12H)-dione*. A. CHIHAB-EDDINE, A. JILALE, **A. DAÏCH**, B. DECROIX
- 6n. III<sup>th</sup> National meeting on Heterocyclic Chemistry, Fès. 24-25 April, 1998, Morocco (**Poster**). *Isoindolobenzothiazolinones et isoindolobenzothiazinones via amido-alkylation et/ou hétéroamido-alkylation Cyclisation intramoléculaire: Isomérisation de l'ion N-acyliminium intermédiaire*. N. HUCHER, **A. DAÏCH**, B. DECROIX

- 7n. Day of Young Researchers of the French Society of chemistry (SFC). University of Rouen. April 1, 1999, France (**Oral**). *Newly intramolecular  $\alpha$ -amidoalkylation cyclisation: Use of N-acyliminium ion with sulfur atom as a nucleophile.* N. HUCHER, **A. DAÏCH**, B. DECROIX
- 8n. I<sup>st</sup> National meeting on Organometallic Chemistry, Fès. April 6-7, 2000, Morocco (**Poster**). Régiosélectivité et stéréosélectivité d'agents organomagnésiens et organolithiens sur des imides chirales. A.CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, B. DECROIX
- 9n. IV<sup>th</sup> National meeting on Heterocyclic Chemistry, Tétouan. May 4-5, 2000, Morocco (**Poster**). Synthèse d'hétérocycles fusionnés à l'indole : Ion N-acyliminium. A.CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, B. DECROIX
- 10n. V<sup>th</sup> National meeting on the Heterocyclic Chemistry (5<sup>ème</sup> RNCH), Kenitra. May 10-12, 2002, Morocco (**Poster**). *Synthèse stéréo- et régiosélective de pyrroloisothiochromane et pyrrolobenzo[d]-thiepine.* A. CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, M. ZERBET, B. DECROIX
- 11n. V<sup>th</sup> National meeting on Heterocyclic Chemistry (5<sup>ème</sup> RNCH), Kenitra. May 10-12, 2002, Morocco (**Poster**). *Evaluation of N-hydroxymethylphthalimide in basic medium : synthesis of new isoindolo[1,3]oxazepine fused to aromatic ring.* A. CUL, **A. DAÏCH**, M. OTHMAN, S. MARCHALIN, B. DECROIX
- 12n. V<sup>th</sup> National meeting on Heterocyclic Chemistry (5<sup>ème</sup> RNCH), Kenitra. May 10-12, 2002, Morocco (**Poster**). *Synthesis of new polyheterocycles via N-acyliminium ion aromatic cyclization.* M. OTHMAN, P. PIGEON, **A. DAÏCH**, B. DECROIX
- 13n. V<sup>th</sup> National meeting on Heterocyclic Chemistry (5<sup>ème</sup> RNCH), Kenitra. May 10-12, 2002, Morocco (**Poster**). *An efficient synthesis of chiral isoindoloisoquinolinones based on an intramolecular  $\pi$ -cationic cyclization.* A. CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, B. DECROIX
- 14n. II<sup>nd</sup> National meeting on the Organometallic Chemistry (RENACOM 2003), Agadir. May 2-3 2003, Morocco (**Poster**). Induction Chirale-1,5: Modèle de Felkin-Ahn. A. CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, B. DECROIX
- 15n. European Northwest days of the Young Researchers -SFC North. Villeneuve d'Ascq. April 13-14, 2006, France (**oral+poster**). *Oxydation des Polyhydro- $\beta$ -Carbolines en vue de la synthèse d'homologues de la Camptothécine et de la Luotonine par la réaction de Winterfeldt.* F. PIN, S. COMESSE, P. NETCHITAÏLO, **A. DAÏCH**
- 16n. European Northwest days of the Young Researchers -SFC North. Villeneuve d'Ascq. April 13-14, 2006, France (**oral+poster**). *Homologues Hétérocycliques de la Nuévamine par la Chimie des Ions N-Acyliminiums en Association avec la Cyclisation de type Friedel-Crafts.* J.-F. FLEURY, **A. DAÏCH**, P. NETCHITAÏLO
- 17n. VI<sup>th</sup> National meeting on Heterocyclic Chemistry (RNCH6-PO130), Moroccan group of Heterocyclic Chemistry (GMCH) , University of Hassan II, Mohammedia, Faculty of Sciences Ben M'sik, May 25-26, 2007, Casablanca, Morocco (**Poster**). *Synthèse Stéréosélective d'Hétérocycles Fusionnés.* A. ANEJJAR, A. JILALE, **A. DAÏCH**, A. CHIHAB EDDINE
- 18n. The II<sup>nd</sup> National Meeting on the Molecular Chemistry (RNCMD2), Béni-Mellal. May 19-20, 2005, Morocco (**Poster**). *New Approach to the Bioactive Natural Rutaecarpine, Euxylophoricine A, and their Heterocyclic Homologues via the Amino-Ester/Thioimine Cyclocondensation.* A. HAMID, **A. DAÏCH**
- 19n. The II<sup>nd</sup> National Meeting on the Molecular Chemistry (RNCMD2), Béni-Mellal. May 19-20, 2005, Morocco (**Poster**). *Use of N-Acyliminium Chemistry and Diels-Alder Combination to Access the Rare Isoindoloisoquinolinone Alkaloid Core.* F. PIN, **A. DAÏCH**, P. NETCHITAÏLO
- 20n. The II<sup>nd</sup> National Meeting on the Molecular Chemistry (RNCMD2), Béni-Mellal. May 19-20, 2005, Morocco (**Poster**). *Configuration Absolue et Induction Asymétrique.* A. CHIHAB-EDDINE, M. ZERBET, A. LACHRAI, A. JILALE, **A. DAÏCH**

- 21n. European North-West days of the Young Researchers (JNOEJC), Organised by SCF, may 18-20, 2009, Rouen, France (**Poster**). *Synthesis of Luotonins and Rutaecarpine derivatives by the way of heterocyclisation and oxidative transpositions*. Z. SARKISYAN, F. PIN, S. COMESSE, **A. DAÏCH**
- 22n. European North-West days of the Young Researchers (JNOEJC), Organised by SCF, may 18-20, 2009, Rouen, France (**Poster**). *Expedient access to the tricyclic core of Crispine by the way of a tandem process coupled with a catalytic Friedel-Crafts reaction*. S. MOUSSA, S. COMESSE, **A. DAÏCH**, V. DALLA, P. NETCHITAÏLO
- 23n. European North-West days of the Young Researchers (JNOEJC), Organised by SCF, may 18-20, 2009, Rouen, France (**Poster**). *Towards the synthesis of spiro-oxindole alkaloid derivatives via the tandem process*. I. ALLOUS, S. COMESSE, A. ALKYAT, **A. DAÏCH**
- 24n. European North-West days of the Young Researchers (JNOEJC), Organised by SCF, may 18-20, 2009, Rouen, France (**Poster**). *Synthesis of the bioactive aromathecins and derivatives via a domino N-amidoacylation/aldol type condensation*. A. NAMOUNE, S. COMESSE, **A. DAÏCH**

### 2-2-3-INTERNATIONAL COMMUNICATIONS

- 1i. Norman-England Colloquium on Organic Chemistry (ANORCQ III) à Deauville. May 17-19, 1995, France (**Poster**). *Thieno- and [1]benzothienindolizines: Synthesis and Diels-Alder reaction*. **A. DAÏCH**, B. DECROIX
- 2i. V<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry, Casta-Papiernicka. June 14-17, 1995, Slovaquie (**Poster**). *Regioselective conversion of lactams to thiolactams*. **A. DAÏCH**, P. NETCHITAÏLO, A. MAMOUNI, B. DECROIX, J. MOREL
- 3i. XVIII<sup>th</sup> European Colloquium on Heterocyclic Chemistry, Rouen. October 4-7, 1998, France (**Poster**). *Reactivity of chiral phthalimides: Use of N-acyliminium ion*. A. CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, B. DECROIX
- 4i. XVIII<sup>th</sup> European Colloquium on Heterocyclic Chemistry, Rouen. October 4-7, 1998, France (**Poster**). *Intramolecular cyclisation of N-acyliminium ion with sulfur as an internal nucleophile: Isomerisation of the N-acyliminium ion*. N. HUCHER, **A. DAÏCH**, B. DECROIX
- 5i. XVIII<sup>th</sup> European Colloquium on Heterocyclic Chemistry, Rouen. October 4-7, 1998, France (**Poster**). *Synthesis of fused oxaza and dioxaza rings from N-hydroxyphthalimide*. N. NETCHITAÏLO, A. BARTOVIC, **A. DAÏCH**, B. DECROIX
- 6i. Norman-England Colloquium on Organic Chemistry (ANORCQ V), Forges-les-Eaux. May 2-4, 1999, France (**Poster**).  *$\pi$ -Cationic cyclisations of N-acyliminium ions from imide-ester functionality: Use of olefin as nucleophile*. M. OTHMAN, P. PIGEON, **A. DAÏCH**, B. DECROIX
- 7i. Norman-England Colloquium on Organic Chemistry (ANORCQ V), Forges-les-Eaux. May 2-4, 1999, France (**Poster**). *Newly intramolecular  $\alpha$ -amidoalkylation cyclisation: Use of N-acyliminium ion with sulfur atom as a nucleophile*. N. HUCHER, **A. DAÏCH**, P. NETCHITAÏLO, B. DECROIX
- 8i. National Meeting of the American Chemical Society (ACS), San Francisco. March 26-30, 2000, USA (**Poster** Po367). *Synthesis of isoindolobenzothiazines: A new rearrangement of N-acyliminium ion*. N. HUCHER, **A. DAÏCH**, B. DECROIX
- 9i. Days of Organic Chemistry organized by the French Society of Chemistry (SFC), Polytechnic School, Palaiseau. September 11-13, 2001 (**Poster**). *A Simple Stereoselective Construction of Chiral Isoindoloisoquinolinone Alkaloid Core Through an Intramolecular Cationic Arylation*. **A. DAÏCH**, A. CHIHAB-EDDINE, A. JILALE, B. DECROIX

- 10i. *Days of Organic Chemistry organized by the French Society of Chemistry (SFC), Polytechnic School, Palaiseau. September 11-13, 2001 (Poster). Diastereoselective Access to Chiral Non-racemic [1,3]Oxazolo[2,3-a] isoindolo-5-ones Ring Systems via O-Cationic Cyclization.* J. SIKORAIOVA, S. MARCHALIN, **A. DAÏCH**, B. DECROIX
- 11i. *Days of Organic Chemistry organized by the French Society of Chemistry (SFC), Polytechnic School, Palaiseau. September 11-13, 2001 (Oral+Poster). N-Phényl trifluorométhanesulfonimide PhNTf<sub>2</sub>: Un nouveau réactif pour la synthèse in situ d'amines à partir d'alcools.* V. GASPARIK, V. DALLA-LIBERA, **A. DAÏCH**, B. DECROIX
- 12i. Transmediterranean Colloquium on Heterocyclic Chemistry (TRAMECH), Bari. June 20-24, 2002, Italy (**Poster**). *Stereoselective synthesis of chiral isoindoloisoquinolinone.  $\pi$ -Cationic cyclisation via N-acyliminium ion.* A. CHIHAB-EDDINE, **A. DAÏCH**, A. JILALE, B. DECROIX
- 13i. IX<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry (9BDSHC), Tatranská Lomnica. June 16-20, 2002, Slovak Republic (**Oral+Poster**). *Novel syntheses of densely functionalized indolizines from 2-formyl-1,4-dihydropyridines (1,4-DHPs).* K. CVOPOVA, S. MARCHALIN, **A. DAÏCH**
- 14i. X<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry, Vienna. September 3-6, 2003, Austria (**Poster**). *A New Convenient Synthesis of Indolizines and Bipyridinyls from 2-Formyl-1,4-Dihydropyridines (1,4-DHPs).* S. MARCHALIN, K. CVOPOVA, **A. DAÏCH**, M. KRIZ
- 15i. III<sup>rd</sup> PPG-Sipsy Symposium on "New Frontiers In Asymmetric Synthesis", Angers, September 3-4, 2003, France (**Poster**). *New Resolution of 2-Formyl-1,4-DHPs Derivatives using CIDR Methodology. A Facile Access to New Chiral Bicyclic Thiolactam.* S. MARCHALIN, K. CVOPOVA, H. OULYADI, **A. DAÏCH**
- 16i. III<sup>rd</sup> PPG-Sipsy Symposium on "New Frontiers In Asymmetric Synthesis", Angers, September 3-4, 2003, France (**Poster**). *A Chiral Isoindoloisoquinolinone Alkaloid Core via Stereoselective Intramolecular  $\pi$ -Cyclization of N-Acyliminium Cation.* **A. DAÏCH**, A. CHIHAB-EDDINE, A. JILALE, B. DECROIX, H. ELOMRI
- 17i. VIII<sup>ème</sup> Symposium ICSN, Natural Products and Drug Discovery, Gif sur Yvette, June 12-13, 2003, France (**Poster**). *Chemical Composition of Extracts of Isolona Hexaloba Engler.* P. VERITE, H. MATHOUET, I. CAZOULAT, E. SEGUIN, **A. DAÏCH**, H. ELOMRI
- 18i. Seventh Anglo-Normand Organic Chemistry Colloquium -ANORCQ VII- Cabourg, Basse Normandie, May 2-4, 2004, France (**Poster**). *Use of the Newly Heterocyclization/Double Transposition/Isomerisation of N-acyliminium ion Cascade to Access Tricyclic Thiolactams.* A. PESQUET, **A. DAÏCH**, B. DECROIX, L. VAN HIJFTE
- 19i. Seventh Anglo-Normand Organic Chemistry Colloquium -ANORCQ VII- Cabourg, Basse Normandie, May 2-4, 2004, France (**Poster**). *New Resolution of 2-Formyl-1,4-DHP Derivatives using CIDR Methodology. A Facile Access to New Chiral Tricyclic Thiolactams.* Š. MARCHALIN, H. OULYADI, **A. DAÏCH**
- 20i. Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH III- Marrakech, November 23-27, 2004, Morocco (**Poster**). *Heterocyclization-Transposition-Isomerisation of N-acyliminium ion. Domino Process to Accede New Tricyclic Thiolactams.* A. PESQUET, **A. DAÏCH**, B. DECROIX, L. VAN HIJFTE
- 21i. Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH III- Marrakech, November 23-27, 2004, Morocco (**Poster**). *Use of CIDR Strategy to Resolve 2-Formyl-1,4-DHP Derivatives. Access to New Chiral Thiolactams.* Š. MARCHALIN, H. OULYADI, **A. DAÏCH**
- 22i. Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH III- Marrakech, November 23-27, 2004, Morocco (**Poster**). *Use of the N-Acyliminium ion and Friedel-Crafts Combination Strategy to Access Easily the Isoindoloisoquinoline Alkaloid Core.* G. LEMONNIER, J-F. FLEURY, **A. DAÏCH**, P. NETCHITAÏLO

- 23i. Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH III- Marrakech, November 23-27, 2004, Morocco (**Poster**). *Synthèse Asymétrique d'Hétérocycles Fusionnés*. W. AZOUI, **A. DAÏCH**, A. JILALE, A. CHIHAB-EDDINE
- 24i. Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH III- Marrakech, November 23-27, 2004, Morocco (**Poster**). *Towards Improving the Chemistry of N-Acyliminiums Ions: A One-Pot Protocol for the Preparation of Acetoxy Lactams from Imides*. R. BEN OTHMAN, A. FOUSSE, F. SZEMES, T. BOUSQUET, **A. DAÏCH**, V. DALLA, M. OTHMAN
- 25i. Trans-Mediterranean Colloquium on Heterocyclic Chemistry -TRAMECH III- Marrakech, November 23-27, 2004, Morocco (**Poster**). *Synthèse des Benzoindolizidines et Benzopyrrolizidines via la Réaction de Cyclisation de Métathèse*. R. BEN OTHMAN, B. DECROIX, M. OTHMAN, **A. DAÏCH**
- 26i. Days of Organic chemistry, Polytechnic School, Palaiseau, 7-9 September 2004, France (**Poster**). *Use of the Newly Heterocyclization/Double Transposition/Isomerisation of N-acyliminium ion Cascade to Access Tricyclic Thiolactams*. A. PESQUET, **A. DAÏCH**, B. DECROIX, L. VAN HIJFTE
- 27i. Days of Organic chemistry, Polytechnic School, Palaiseau, 7-9 septembre 2004, France (**Poster**). *Use of the N-Acyliminium ion and Friedel-Crafts Combination Strategy to Access Easily the Isoindoloisoquinoline Alkaloid Core*. A. G. LEMONNIER, J-F. FLEURY, **A. DAÏCH**, P. NETCHITAÏLO
- 28i. XX<sup>th</sup> International Congress of Heterocyclic Chemistry (20ICHC), July 31-august 5, 2005, Palermo, Italy (**Oral+Poster**). *On the reactivity of thiolactam in indole series: New approaches to the bioactive natural alkaloid product Rutaecarpine, its homologues and corresponding pyridones via the tandem processes*. A. HAMID, H. ELOMRI, **A. DAÏCH**
- 29i. XI<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry (BDSHC), August 28-September 1st, 2005, Brno, Czech Republic (**Poster, PO7**). *Reactivity of 2-(2',2'-dikyanovinyl)-1,4-dihydropyridine toward alkyl acetoacetates*. B. BAUMLOVÁ, Š. MARCHALÍN, P. BARAN, **A. DAÏCH**
- 30i. XI<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry (BDSHC), August 28-September 1st, 2005, Brno, Czech Republic (**Oral+Poster, PO9**). *Conformationally constrained homophenylalanine derivatives. Synthesis of the substituted 2,3,4,5-tetrahydro-1H-2-benzazepine-3-carboxylic acids*. D. BERKEŠ, J. ŽELEZNIK, **A. DAÏCH**, F. POVAŽANEC
- 31i. The First International Conference on Recent Developments in Chemistry and their Applications (RDCA-01) Organized by Department of Chemistry, Faculty of Science, Sebha University 14-16 November 2006, Sebha, Libya (**Oral+Poster/Bio-39**). *On The Reactivity of Thiolactam In Indole Series: New Approaches To The Bioactive Natural Alkaloid Product Rutaecarpine, Its Homologues And Corresponding Pyridones Via The Tandem Processes*. A. HAMID, H. ELOMRI, **A. DAÏCH**
- 32i. XII<sup>th</sup> Blue Danube Symposium on Heterocyclic Chemistry (BDSHC), June 10-13, 2007, Tihany, Hungary (**Poster**). *A Tandem Michael Addition/Amino-Nitrile Cyclization in the Synthesis of Novel Indolizines*. B. BAUMLOVÁ, Š. MARCHALÍN, P. BARAN, **A. DAÏCH**
- 33i. Troisième Rencontre Internationale sur la Chimie Moléculaire (RICMD-3), 22-24 novembre 2007, Marrakech, Maroc (**Oral O2 and Poster P182**). *Vers la synthèse d'indolizidines polyhydroxylées ou non homologues d'inhibiteurs de glycosidases*. R. AFFANI, S. COMESSE, **A. DAÏCH**, C. KADOURI-PUCHOT
- 34i. Ninth Anglo-Normand Organic Chemistry Colloquium -ANORCQ IX- Le Havre, Haute Normandie, April 3-5, 2008, France (**Poster-P2**). *General and Versatile Entry to Polycyclic Imidazolidinones: Use of N-acyliminium Chemistry in Domino Process*. A. PESQUET, L. VAN HIJFTE, **A. DAÏCH**
- 35i. Ninth Anglo-Normand Organic Chemistry Colloquium -ANORCQ IX- Le Havre, Haute Normandie, April 3-5, 2008, France (**Poster-P30**). *A domino N-amidoacylation/aldol-type condensation approach to the synthesis*



*of topoisomerase-I inhibitors Rosettacin, 22-Hydroxyaccuminatine and derivatives.* F. PIN, S. COMESSE, **A. DAÏCH**

- 36i. Ninth Anglo-Normand Organic Chemistry Colloquium -ANORCQ IX- Le Havre, Haute Normandie, April 3-5, 2008, France (**Poster-P31**). *Intermolecular and intramolecular  $\alpha$ -amidoalkylation reactions using bismuth triflate as the catalyst.* F. PIN, S. COMESSE, B. GARRIGUES, **A. DAÏCH**
- 37i. Ninth Anglo-Normand Organic Chemistry Colloquium -ANORCQ IX- Le Havre, Haute Normandie, April 3-5, 2008, France (**Poster-P43**). *Synthesis of Spiro-oxindole Alkaloids Derivatives.* I. ALLOUS, S. COMESSE, A. ALKYAT, **A. DAÏCH**
- 38i. Congress Drug Discovery and Selection. International Conference on Medicinal Chemistry/45èmes Rencontres Internationales de Chimie Thérapeutique)- Orléans, July 1-3, 2009, France (**Poster**). *New strategy for the construction of a pyrroloisoquinolinone scaffold and application to the synthesis of topoisomerase-I inhibitors.* F. PIN, S. COMESSE, **A. DAÏCH**
- 39i. The III<sup>th</sup> National Conference on Basic Sciences (NCBS-III) Organized by Department of Chemistry, Al-jabel El-Garbie University 25-27 April 2009, Gharian, Libya (**Poster**). *Chemistry of iminium, acylium and N-acyliminium ions alone or in tandem with known reactions.* A. HAMID, **A. DAÏCH**
- 40i. COFr-RoCM 2010: 1<sup>st</sup> French-Romanian Colloquium on Medicinal Chemistry (Primul Colocviu Franco-Roman de Chimie Medicala), University of Alexandru Ioan, October 7-8, 2010, Cuza, Iasi (Romania). (**poster**). *Synthesis of potential mTOR inhibitors.* N. VAN HIJFTE, B. RIGO, P. GAUTRET, **A. DAÏCH**
- 41i. International Conference on Chemical and Biomolecular Engineering (ICCBE 2011 Dubai), January 25-27, 2011, Dubai, United Arab Emirates (UAE). (**Oral presentation & Poster**). *Synthesis of Analogues to Camptothecine.* A. HAMID, **A. DAÏCH**
- 42i. Congress Drug Discovery and Selection. 47<sup>th</sup> International Conference on Medicinal Chemistry - 47e Rencontres Internationales de Chimie Thérapeutique. RICT 2011 July 6-8, 2011, Lyon, France. (**poster**). *A novel entry of aromathecins as promising topoisomerase-I inhibitors.* A. NAMOUNE, L. EL-BLIDI, A. M. LAWSON, S. COMESSE, **A. DAÏCH**
- 43i. Congress Drug Discovery and Selection. 47<sup>th</sup> International Conference on Medicinal Chemistry - 47e Rencontres Internationales de Chimie Thérapeutique. RICT 2011 July 6-8, 2011, Lyon, France. (**poster**).  *$\alpha,\beta$ -Unsaturated diester chromone in domino process based on a 1,6-aza-Michael addition.* C. PINTIALĂ, A. M. LAWSON, S. COMESSE, **A. DAÏCH**
- 44i. Congress Drug Discovery and Selection. 47<sup>th</sup> International Conference on Medicinal Chemistry - 47e Rencontres Internationales de Chimie Thérapeutique. RICT 2011 July 6-8, 2011, Lyon, France. (**poster**).  *$\alpha,\beta$ -Unsaturated diester chromone in domino process based on a 1,6-aza-Michael addition.* C. PINTIALĂ, A. M. LAWSON, S. COMESSE, **A. DAÏCH**
- 45i. XXII<sup>th</sup> French-Japanese Symposium on Medicinal and Fine Chemistry/FJS-2011. September 11-14, 2011, Rouen, France. (**poster**). *Synthesis of N-heterocycles using Tandem/Domino reactions.* S. COMESSE, A. M. LAWSON, V. DALLA, **A. DAÏCH**

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