

Faculté/Institut : Sciences exactes**Département : Chimie**

1- Identification du laboratoire/Unité de recherche			اسم المخبر
Intitulé du Laboratoire	Obtention de Substances Thérapeutiques		
Acronyme du labo	LOST		
Adresse électronique	lost@umc.edu.dz		
Site web ou URL	www.lost.umc.edu.dz		
Année d'Agrément :	2002	Tel : 031811100	Fax : 031811100

2- Directeur du laboratoire/Unité de recherche

Nom & Prénom	Kabouche Zahia	Grade : Prof
Adresse Electronique	zahiakabouche@gmail.com; zahiakabouche@umc.edu.dz	
Nombre Equipes :	4	Nbre Chercheurs : 36 Nbre Personnel soutien :1

3- Présentation du laboratoire**Thèmes mis en œuvres :****Thème 1:** Synthèse catalytique de substances bioactives**Thème 2:** Séparation et identification des métabolites secondaires de plantes médicinales Algérienne et investigation de leur potentiel biologique (activités antioxydante, anticholinestérase, anticancer , anti-inflammatoire...)**Thème 3:** Plantes médicinales utilisées contre l'inflammation**Thème 4:** Drug Design basé sur POM (Petra Osiris Molinspiration) et sur d'autres logiciels plus performants pour la modélisation et l'étude de la relation structure-activité (antioxydante, anti-inflammatoire, etc....).**Mots-Clés :** Plantes médicinales, principes actifs, activités biologiques, inflammation, synthèse catalytique**4- Chefs d'équipes**

Titre de l'Equipe1	Synthèse, isolement et drug design de molécules bioactives	
Nom - Chef d'équipe ¹	Kabouche Zahia	Grade : Prof
Titre de l'Equipe2	Obtention de substances bioactives par voie naturelle	
Nom - Chef d'équipe ²	Kabouche Ahmed	Grade : Prof
Titre de l'Equipe3	Activités biologiques de plantes médicinales Algériennes	
Nom - Chef d'équipe ³	Zerizer Sakina	Grade : Prof
Titre de l'Equipe4	Etude phytochimique et évaluation du potentiel biologique de plantes médicinales algériennes	
Nom - Chef d'équipe ⁴	Berrehal Djemaa	Grade : MCA

5- Liste des publications :

1. H. Lakhal, A. Kabouche, Z. Kabouche, Flavonoids and antioxidant activity of *Stachys olusatrum*. *Chemistry of Natural Compounds* (2011), 46(6), 964-965.
2. A. Kabouche, Z. Kabouche, R. Touzani, C. Bruneau. Flavonoids from *Centaurea sulphurea*. *Chemistry of Natural Compounds* (2011), 45(6), 966-967.
3. I. L. Acebey-Castellon, L. Voutquenne-Nazabadioko, H. D. Thi Mai, N. Roseau, N. Boutaghane, D. Muhammad, E. Le Magrex Debar, S. C. Gangloff, M. Litaudon, T. Sevenet, Ng. Van Hung, C. Lavaud . Triterpenoid saponins from *Symplocos lancifolia*. *Journal of Natural Products* (2011), 74(2), 163–168.
4. K. Kaabeche-Djerafi, N. Bendjaballah-Lalaoui, S. Semra. Effect of medium capacity on the relationship between chemical heterogeneity and linearly adsorbed solute dispersion into fixed beds. *Proceedings of World Academy of Science, Engineering and Technology* (2011), 52, 686-689.
5. O. Touafek, Z. Kabouche, I. Brouard, J. B. Bermejo. Flavonoids of *Campanula alata* DESF. and their antioxidant activity. *Chemistry of Natural Compounds* (2011), 45(6), 968-969.
6. R. Bencheraiet, H. Kherrab, A. Kabouche, Z. Kabouche, M. Jay. Flavonols and antioxidant activity of *Ammi visnaga* L. (Apiaceae). *Records of Natural Products* (2011), 5, 52-55.
7. N. Boutaghane, A. Kabouche, R. Touzani, Y. A. Maklad, Ai.El-Azzouny, C. Bruneau, Z. Kabouche. GC/MS Analysis and Analgesic Effect of the Essential Oil of *Matricaria pubescens* from Algeria. *Natural Product Communications* (2011), 6(2), 251-252.
8. S. Lagoune, A. Zeghib, A. Kabouche, Z. Kabouche, F. Leon, I. Brouard, J. Bermejo, C.A. Calliste, J.L. Duroux. Components and Antioxidant activity of the roots of the endemic species *Stachys mialhesi* de Noé. *Records of Natural Products* (2011), 3, 238-241.
9. T. Boudiar, C. Bensouici, J. Safaei-Ghomí, A. Kabouche, Z. Kabouche. GC/MS Analysis of *Ammoides atlantica* (Coss. et Dur.) *Journal of Essential Oils Bearing Plants* (2011), 14(2), 172-174.
10. A. Labed, I. Labed, J. Safaei-Ghomí, A. Kabouche, Z. Kabouche. GC/MS Analysis of *Oenanthe virgata* *Journal of Essential Oils Bearing Plants* (2011), 14(4), 481-483.
11. S. Chibani, H. Berhail-Boudouda, A. Kabouche, T. Aburjai, Z. Kabouche, Analysis of the essential oil of *Ferula communis* L. from Constantine (Algeria). *International Journal of Medicinal and Aromatic Plants* (2011), 1(2), 41-44.
12. R. Bencheraiet, A. Kabouche, Z. Kabouche, M. Jay. Flavonols from *Smyrnium olusatrum* (Apiaceae). *Chemistry of Natural Compounds* (2011), 47, 813-814.
13. R. Bencheraiet, A. Kabouche, Z. Kabouche, M. Jay. Flavonols from *Bupleurum plantagineum* (Apiaceae). *Chemistry of Natural Compounds* (2011), 47, 814-815.
14. A. Khalfallah, A. Labed, A. Kabouche, Z. Semra, B. Ait Kaki, A. Kabouche, R. Touzani, Z. Kabouche. Antibacterial activity and chemical composition of essential oil of *Ammi visnaga* L. (Apiaceae) from Algeria. *International Journal of Medicinal and Aromatic Plants* (2011), 1(3), 302-305
15. A. Khalfallah, A. Karioti, D. Berrehal, A. Kabouche, M. Lucci, Z. Kabouche, A.R. Bilia . Flavonoid triglycosides from *Astragalus armatus*. 59th International Congress and Annual Meeting of the Society for Medicinal Plant Natural Product Research Antalya 09/11 (PG47). *Planta Medica* (2011), 77, 1229-1472.
16. T. Boudiar, I. labed, J. Safaei-Ghomí, A. Kabouche, Z. Kabouche. Analysis of the essential oil of *Ruta chalepensis* subsp. *angustifolia* from Algeria. *Journal of Essential Oils Bearing Plants* (2011), 14(6), 792-795.
17. R. Bencheraiet, A. Kabouche, Z. Kabouche, R. Touzani, M. Jay. Flavonol 3-O-glycosides from three Algerian *Bupleurum* species. *Records of Natural Products* (2012), 6, 174-175.
18. O. Touafek, Z. Kabouche, J. Boustie, C. Bruneau. A new long chain unsaturated ester and other constituents of *Hypericum tomentosum* (Clusiaceaer). *Natural Product Communications* (2012), 7(1), 63-64.
19. N. Benzeggouta, Z. Semra, Z. Kabouche. From ethnopharmacology to green chemistry “dawilou” a traditional herbal mixture. *Pharmacophore* (2012), 3(1), 76-80.

20. I Labed, S. Chibani, Z. Semra, A. Kabouche, T. Aburjai, R. Touzani, Z. Kabouche. Antibacterial activity and chemical composition of essential oil of *Athamanta sicula* L. (Apiaceae) from Algeria. *E-Journal of Chemistry* (2012), 9(2), 796-800.
21. T. Boudiar, Z. Sehli, B. Sandararaju, M. Achard, Z. Kabouche, H. Doucet, C. Bruneau. Isoquinoline derivatives via stepwise regioselective sp² and sp³ C-H bond functionalizations. *Journal of Organic Chemistry* (2012), 77, 3677-3678.
22. A. Nacer, J Merza, Z. Kabouche, S. Rhouati, J. Boustie, P. Richomme. Sesquiterpenes lactones from *Centaurea tougourensis*. *Biochemical Systematics and Ecology* (2012), 43, 163-165.
23. S. Rekkab, H. Zarrok, R. Salghi, A. Zarrouk, Lh. Bazzi, B. Hammouti, Z. Kabouche, R. Touzani, M. Zougagh. Green corrosion inhibitor from essential oil of *Eucalyptus globulus* (Myrtaceae) for C38 steel in sulfuric acid Solution. *Journal of Materials and Environmental Sciences* (2012), 3(4), 613-627.
24. O. Gherboudj, N. Benkiki, E. Seguin, F. Tillequin, Z. Kabouche. Components of *Matricaria pubescens* (Desf.) Schultz (Asteraceae) from Algerian Septentrional Sahara. *Chemistry of Natural Compounds* (2012), 48(3), 470-471.
25. S. Bencharif-Betina, T. Miyamoto, C. Tanaka, **Z. Kabouche**, A-C. Mitaine-Offer, M.A. Lacailles Dubois. Two new triterpene saponins from *Cyclamen africanum*. 8th Joint Meeting of AFERP, ASP, GA, PSE and SIF, New York City, 07/2012 (PI298). *Planta Medica* (2012), 78 (11), 1027-1310.
26. R. Bencheraiet, A. Kabouche, M. Jay, Z. Kabouche. Flavonoids of *Phylospermum acteaefolium*. *Chemistry of Natural Compounds* (2012), 48(3), 480-481.
27. A. Khalfallah, D. Berrehal, A. Kabouche, Z. Kabouche. Flavonoids of *Centaurea omphalodes*. *Chemistry of Natural Compounds* (2012), 48(3), 482-483.
28. H. Mokaddem-Daroui, O. Touafek, A. Kabouche, Z. Kabouche, C.A. Calliste, J.L. Duroux. Components and antioxidant activity of the polar extract of *Chrysanthemum trifurcatum* (Desf.) Batt. & Trab. *Chemistry of Natural Compounds* (2012), 48(3), 498-499.
29. C. Bensouici, A. Kabouche, Z. Kabouche. Flavonoids of *Centaurea foucauldiana*. *Chemistry of Natural Compounds* (2012), 48(3), 510-511.
30. D. Berrehal, A. Khalfallah, A. Kabouche, A. Karioti, A. Bilia, A.C. Goren, Z. Kabouche. Flavonol glycosides from *Reseda arabica*. *Records of Natural Products* (2012), 6(4), 368-370.
31. S. Bencharif-Betina, T. Miyamoto, C. Tanaka, Z. Kabouche, A-C. Mitaine-Offer, M.A. Lacailles Dubois. Two new triterpene saponins from *Cyclamen africanum* Boiss. & Reut. *Helvetica Chimica Acta* (2012), 95(9), 1573-1580.
32. S. Chibani, C. Bensouici, A. Kabouche, T. Aburjai, R. Touzani, Z. Kabouche. Analysis of the essential oil of aerial parts of *Ferula lutea* Poiret from Algeria. *Journal of Essential Oils Bearing Plants* (2012), 15(4), 682-685.
33. S. Chibani, C. Bensouici, A. Kabouche, Z. Kabouche, M. M. Al-Dabbas, T. Aburjai. Flavonoids and antioxidant activity of *Santolina rosmarinifolia* from Algeria. *Chemistry of Natural Compounds* (2012), 48(5), 877-878.
34. H. Kaddouri, M. Bouklah, S. Rekkab, R. Touzani, S.S. El-Deyab, B. Hammouti, A. Aouniti, Z. Kabouche. Thermodynamic chemical and electrochemical investigation of calixarene derivatives as corrosion inhibitor for mild steel in hydrochloric acid solution. *International Journal of Electrochemical Sciences* (2012), 7, 9003-9024.
35. S. Zerizer, K. S. Zaher N. Boutaghane, S. Lagguone, Z. Kabouche. Comparative effect of *Chrysanthemum macrocarpum* and *Stachys mialhesi* on the rats aorta exposed to homocysteine with B Vitamins. *Scottish Journal of Arts, Social Sciences and Scientific Studies* (2012), 6(1), 54-64.
36. O. Touafek, M. Lahouel, E. Makhlofi, L. Benguedouar, J. Boustie, C. Bruneau, Z. Kabouche. Components and antioxidant activity of *Hypericum tomentosum* L. *Journal of Biologically Active Products from Nature* (2012), 2(3), 158-166.
37. H. Berhail Boudouda, A. Benmerache, S. Chibani, A. Kabouche, S. Abuhamdah, Z. Semra, Z. Kabouche. Antibacterial Activity and Chemical Composition of Essential Oils of *Inula viscosa* (L.) Ait. (Asteraceae) from Constantine, Algeria. *Der Pharmacia Lettre* (2012), 4(6), 1863-1867.
38. A. Benmerache, D. Berrehal, Khalfallah, A. Kabouche, Z. Semra, Z. Kabouche. Antioxidant,

- antibacterial activities and flavonoids of *Reseda phyteuma* L. *Der Pharmacia Lettre* (2012), 4(6), 1878-1882.
39. A. Benmebarek, S. Zerizer, S. Laggoune, Z. Kabouche. Immunostimulatory activity of *Stachys mialhesi* de Noé. *Allergy, Asthma & Clinical Immunology* (2013), 9:2 doi:10.1186/1710-1492-9-2, online January 2013.
 40. H. Ghorab, A. Kabouche, Z. Semra, A. Ghannadi, E.B. Sajjadi, R. Touzani, Z. Kabouche. Biological activities and compositions of the essential oil of *Thymus ciliatus* from Algeria. *Der Pharmacia Lettre* (2013), 5(1), 28-32.
 41. A. Benmerache , D. Berrehal, A. Kabouche , Z. Semra Z, O. Thomas, R. Touzani , Z. Kabouche. Antioxidant, antibacterial activities and flavonoids of *Convolvulus fatmensis* G. Kunze. *Der Pharmacia Lettre* (2013), 5(1), 371-375.
 42. S. Rekkab, M. Lahouel, C. Félix, Z. Kabouche, T. Ben Hadda. Design and anticoagulant activity of calixarene sulfonates. *Comptes Rendus de Chimie* (2013), 16, 672-678.
 43. S. Chibani, W. Gherboudj, A. Kabouche, T. Aburjai, R. Touzani, Z. Kabouche. GC-MS Composition of the essential oil of *Senecio giganteus*. *Journal of Essential Oils Bearing Plants* (2013), 6(1), 123-125.
 44. H. Ghorab , S. Laggoune, A. Kabouche, Z. Semra, Z. Kabouche. Essential oil composition and antibacterial activity of *Artemisia campestris* L. from Khencela (Algeria). *Der Pharmacia Lettre* (2013), 5(2), 189-192.
 45. A. Bouratoua, O. Touafek, A. Kabouche, Z. Kabouche. Bioactive components of the butanolic extract of *Hypericum tomentosum* L. (Clusiaceae). *Der Pharmacia Lettre* (2013), 5(2), 201-204.
 46. C. Bensouici, A. Benmerache , S. Chibani, A. Kabouche, S. Abuhamdah, Z. Semra, Z. Kabouche. Antibacterial activity and chemical composition of the essential oil of *Satureja calamintha* ssp. *sylvatica* from Jijel, Algeria. *Der Pharmacia Lettre* (2013), 5(2), 224-227
 47. A. Benmebarek, S. Zerizer, S. Laggoune, Z. Kabouche. Effect of *Stachys mialhesi* de Noé on the inflammation induced by hyperhomocysteinemia in Cardiovascular diseases. *Der Pharmacia Lettre* (2013), 5(2), 212-223.
 48. S. Chibani, A. Labed, A. Kabouche, Z. Semra, F. Smati, T. Aburjai, R. Touzani, Z. Kabouche. Antibacterial Activity and Chemical Composition of Essential oil of *Santolina rosmarinifolia* L. (Asteraceae) from Algeria. *Der Pharmacia Lettre* (2013), 5(2), 238-241.
 49. M. Lehbili, S. Chibani, A. Kabouche, Z. Semra, F. Smati, S. Abuhamdah, R. Touzani, Z. Kabouche . Composition, antibacterial and antioxidant activity of the essential oil of *Thymus guyonii* de Noé from Algeria. *Der Pharmacia Lettre* (2013), 5(2), 306-310.
 50. N. Boutaghane, L. Voutquenne-Nazabadioko, D. Harakat, Z. Kabouche. Triterpene saponins from *Genista ulicina* Spach. *Phytochemistry* (2013), 93, 176-181.
 51. S. Bencharif-Betina, T. Miyamoto, C. Tanaka, Z. Kabouche, A.C. Mitaine-Offer, M.A. Lacaille-Dubois. Ursane-Type Saponins from *Zygophyllum cornutum*. *Natural Product Communications* (2013), 8(5), 573-574.N.Boutaghane, L. Voutquenne-Nazabadioko, A. Simon, D. Harakat, K. Benlabed, Z. Kabouche. A new triterpenic diester from the aerial parts of *Chrysanthemum macrocarpum*. *Phytochemistry Letters* (2013), 6, 519-525.
 52. Mihoubi, I. Ramli, K. Frahtia, Z. Kabouche, Z. Harrat. Demonstration of the leshmanicidal activity of *Stachys guyoniana* against *Leschmania major* In Eastrn Algeria. *Médecine et Santé tropicale* (2013), 23(2), 230-231.
 53. B. Aribi, S. Zerizer, Z. Kabouche. Immunomodulatory activity of *Argania spinosa* seeds. *International Journal of Pharmacy and Pharmaceutical Sciences* (2013), 5(3), 488-491.
 54. A. Zeghib, S. Laggoune, A. Kabouche, Z. Semra, F. Smati, R. Touzani, Z. Kabouche. Composition, antibacterial and antioxidant activity of the essential oil of *Thymus numidicus* Poiret from Constantine (Algeria). *Der Pharmacia Lettre* (2013), 5(3), 206-210.
 55. H Lakhal, H. Ghorab, S. Chibani, A. Kabouche, Z. Semra, F. Smati, S. Abuhamdah, Z. Kabouche. Chemical composition and biological activities of the essential oil of *Salvia officinalis* from Batna (Algeria). *Der Pharmacia Lettre* (2013), 5(3), 310-314.
 56. I. Semra, A. Benmerache, S. Chibani, A. Kabouche, S. Abuhamdah, Z. Kabouche. Composition and antioxidant activity of the essential oil of *Origanum glandulosum* Desf. from Algeria. *Der Pharmacia Lettre* (2013), 5(3), 381-385.

57. L. Djarri , M. Ferhat, G. Merabet, Chelghoum, Laggoune, Z. Semra, F. Smati, Z. Kabouche. Composition and antibacterial activity of the essential oil of *Ruta montana* from Constantine (Algeria). *Der Pharmacia Lettre* (2013), 5(4), 70-73.
58. A. Bouratoua, A. Khalfallah, A. Kabouche, Z. Semza, Z. Kabouche. Total phenolic quantification, antioxidant, antibacterial activities and flavonoids of Algerian *Calotropis procera* (Asclepiadaceae). *Der Pharmacia Lettre* (2013), 5(4), 204-207.
59. S. Chibani, A. Bouratoua, A. Kabouche, S. Laggoune, Z. Semra, F. Smati, Z. Kabouche. Composition and antibacterial activity of the essential oil of *Ruta chalepensis* subsp. *angustifolia* from Algeria. *Der Pharmacia Lettre* (2013), 5(5), 252-255.
60. S. Chibani, H. Ghorab, A. Kabouche, Z. Semra, A. Ghannadi, E.B. Sajjadi, Z. Kabouche. Biological activities and compositions of the essential oil of *Thymus ciliatus* subsp. *coloratus* from Bir Chouhada (Algeria). *Der Pharmacia Lettre* (2013), 5(5), 280-284.
61. A. Benmerache, D. Berrehal, A. Kabouche, Z. Kabouche. Flavonol glycosides from *Convolvulus supinus* and their antioxidant activity. *Chemistry of Natural Compounds* (2013), 49(5), 936-937.
62. H. Berhail Boudouda, A. Kabouche, T. Aburjai, Z. Kabouche. GC-MS Analysis of *Inula graveolens* (L.) Desf. from Algeria. *Journal of Essential Oil Bearing Plants* (2013), 16 (5), 651-654.
63. H. Kaddouri, S. Rekkab, M. Bouklah, B. Hammouti, A. Aouniti, Z. Kabouche. Experimental study of inhibition of corrosion of mild steel in 1M HCl solution by two newly synthesized calixarene derivatives. *Research on Chemical intermediates* (2013), 39, 3649-3669.
64. H. Ghorab, A. Kabouche, Z. Kabouche. Comparative compositions of essential oils of *Thymus* growing in various soils and climates of North Africa. *Journal of Materials and Environmental Sciences* (2014), 5(1), 298-301.
65. A. Khalfallah, A. Karioti, D. Berrehal, A. Kabouche, M. Lucci, A. R. Bilia, Z. Kabouche. A new flavonol triglycoside and other flavonol glycosides from *Astragalus armatus* Willd. (Fabaceae). *Records of Natural Products* (2014), 8(1), 12-18.
66. A. Benmebarek, S. Zerizer, H. Lakhal, Z. Kabouche. Biphasic dose response effect of *Stachys ocymastrum* on the reticuloendothelial system phagocytic activity. *International Journal of Pharmacy and Pharmaceutical Sciences* (2014), 6(2), 534-537.
67. M. Ferhat, A. Kabouche, Z. Kabouche. Comparative compositions of essential oils of three *Ruta* species growing in different soils. *Journal of Materials and Environmental Sciences* (2014), 5(3), 735-738.
68. A. Khalfallah, D. Berrehal, A. Kabouche, A. Karioti, A.R. Bilia, Z. Kabouche. Favonoids and antioxidant, antibacterial activities of *Eryngium triquetrum* vahl. *Chemistry of Natural Compounds* (2014), 50(1), 130-131.
69. H. Lakhal, A. Kabouche, A. Alabdul Magid, L. Voutquenne-Nazabadioko, D. Harakat, Z. Kabouche. Triterpenoids from *Salvia argentea* var. *aurasiaca* (Pomel) Batt. & Trab. and their chemotaxonomic significance. *Phytochemistry* (2014), 102, 145-151.
70. H. Kehili, S. Zerizer, Z. Kabouche. Immunostimulatory activity of *Phoenix dactylifera*. *International Journal of Pharmacy and Pharmaceutical Sciences* (2014), 6(3), 73-76.
71. S.Chibani, M. Al-Dabbas, S. Abuhamdah, T. Aburjai, R. Bencheraiet, A. Kabouche, M. Jay, Z. Kabouche. Flavonoids and antioxidant activity of *Thapsia garganica* from Algeria. *Chemistry of Natural Compounds* (2014), 50(2), 357-359.
72. W. Tadrent, M. Benteldjoune, S. Laggoune, A. Benmerache, A. Kabouche, Z. Semra, Z. Kabouche. Composition and antibacterial activity of the essential oil of *Cotula anthemoides*.*Chemistry of Natural Compounds* (2014), 50(4), 744-746.
73. M. Ferhat, H. Ghorab, S. Laggoune, A. Ghannadi, S.E. Sajjadi, R. Touzani, A. Kabouche, Z. Kabouche. Composition and antioxidant activity of the essential oil of *Thymus dreatensis* from Algeria. *Chemistry of Natural Compounds* (2014), 50(4), 747-749.
74. W. Tadrent , A. Kabouche, R. Touzani, Z. Kabouche. Chemotypes investigation of essential oils of “Guertoufa” herbs. *Journal of Materials and Environmental Sciences* (2014), 5(4), 1200-1205.
75. A. Bouratoua, M. Ferhat, A. Kabouche, S. Laggoune, R. Touzani, Z. Kabouche. Comparative compositions of essential oils of *Ferula*. *Journal of Materials and Environmental Sciences* (2014), 5(4), 1214-1217.

76. M. Belhadj Mostefa, A. Kabouche, I. Abaza, T. Aburjai, R. Touzani, Z. Kabouche. Chemotypes investigation of *Lavandula* essential oils growing at different North African soils. *Journal of Materials and Environmental Sciences* (2014), 5(6), 1896-1901.
77. M.K. Abderrezak, I. Abaza, T. Aburjai, A. Kabouche, Z. Kabouche. Comparative compositions of essential oils of *Citrus aurantium* growing in different soils. *Journal of Materials and Environmental Sciences* (2014), 5(6), 1913-1918.
78. H. Cherchar, D. Berrehal, A. Khalfallah, A. Kabouche, Z. Kabouche. Chemotypes of Algerian and Moroccan *Thymus ciliatus*. *Moroccan Journal of Chemistry* (2014), 2, 85-89
79. H. Berhail Boudouda, A. Zeghib, A. Karioti, A. R. Bilia, M. Öztürk, M. Aouni, A. Kabouche, Z. Kabouche. Antibacterial, antioxidant, anti-cholinesterase potential and flavonol glycosides of *Biscutella raphanifolia* (Brassicaceae). *Pakistan Journal of Pharmaceutical Science* (2015), 28(1), 153-158.
80. I. Labed, A. Labed, Y. Sun, F. Jiang, M. Achard, S. Dérien, Z. Kabouche, C. Bruneau. [Cp^{*}Ru]-catalyzed selective coupling/Hydrogenation. *Catalysis Science & Technology* (2015), 5, 1650-1657.
81. A. Labed, F. Jiang, I. Labed, A. Lator, M. Peters, M. Achard, A. Kabouche, Z. Kabouche, G.V.M. Sharma, C. Bruneau. Iridium-Catalyzed Sustainable Access to functionalized Julolidines through Hydrogen Autotransfer. *ChemCatChem* (2015), 7, 1090-1096.
82. I. Labed-Zouad, A. Labed, S. Laggoune, Z. Semra, A. Kabouche, Z. Kabouche. Chemical composition and antibacterial activity of four essential oils from *Ferula vesceritensis* Coss. & Dur. against clinical isolated and food-borne pathogens (Apiaceae) *Records of Natural Products* (2015), 9(4), 518-525
83. M. Nassar, S. Zerizer, Z. Kabouche, A. Kabouche, S. Bechkri. Antioxidant and the immunomodulatory activities exhibited by three plants from Lamiaceae family. *International Journal of Pharmacy and Pharmaceutical Sciences* (2015), 7(9), 331-334
84. Y. El Ouadi, A. Bouratoua, A. Bouyanzer, Z. Kabouche, R. Touzani, H. El Msellem, B. Hammouti, A. Chetouani. Effect of *Athamanta sicula* oil on inhibition of mild steel corrosion in 1M HCl. *Der Pharma Chemica* (2015), 7(2), 103-111
85. A. Takfaoui, M. Lamsayah, A. El Ouafi, A. Oussaid, Z. Kabouche, R. Touzani. N,N'-bipyrazole compounds: Effect of concentration, solvent, ligandand metal anions on the catecholase properties. *Journal of Materials and Environmental Science* (2015), 6(8), 2129-2136
86. N. Lotfi, N. Chaboune, H. El Hariti, Z. Kabouche, M. El M'Rabet, M. Berrabeh, R. Touzani, M. Ouhssine, H. Oudda, Study of the antibacterial effect of Argan oil from Bechar region of Algeria on hospital resistant strains. *Journal of Material and Environmental Science* (2015), 6(9), 2476-2482.
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