

## CURRICULUM VITAE

Name : (Mme) Lyoussi

Surname: Badiaâ

Position: Professor, Director of Research, Head of Laboratory  
Physiology- Pharmacology-Environmental Health

Date of birth : November 24<sup>th</sup> 1958, Sefrou, Morocco.

Marital status : Married, five children.

Address : Department of Biology, Experimental and clinical pharmacology  
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### UNIVERSITY FORMATION

<i>Years</i>		<i>University / Institution</i>
<b>1981</b>	Licence in Biology - Geology	University Mohamed V, Fac Sci. Rabat Morocco
<b>1982</b>	DEA in Endocrinology and Development (AB)	U.S.T.L, Montpellier, France
<b>1984</b>	Doctorat in Neuroendocrinologie (TB) ( Prof J.D. BAYLE)	U.S.T.L. Montpellier, France
<b>1992</b>	Doctorat ( Scientific grade) very high distinction Pr Crabbé. J	Catholic University of louvain Belgium

## ACADEMIC APPOINTMENTS

### *\* EDUCATION*

- **1984 - 1987** : Professor Assistant l'Ecole Normale Supérieure of Fès
- **1987-1989** : Professor assistant , Faculty of Sciences Dhar-Mahraz
- **1989- 1992** : Stage of 3 years in Brussels, Belgium, obtention of Second Doctorat
- **1992 - 1997** : Professor of Physiology-Pharmacology , Faculty of Sciences Dhar-Mahraz, Responsable of courses of Endocrinology, Renal Physiology, Neurophysiology and cellular physiology and practical Workshops.

Participation in courses of DEA BIOLOGY AND HEALTH in Marrakech,  
Responsable of high level courses « : MOLECULAR AND CELLULAR ENDOCRINOLOGY »

### *\* RESEARCH EXPERIENCE*

Head of Unity of Formation and Research in Physiology-Pharmacology

- ◆ Doctorale Formation entitled : **Medicinal plants with therapeutic effects : Physiological and toxico-pharmacological studies**
- ◆ DESA Formation ( Master) entitled : **Molecular and cellular physiopathology**

Supervision of superior studies and PhD. Students at the Faculty of Science, Faculty of Medicine, Nurses in Public Hospitals, Doctors, Ingeniors and Arabic researchers ( Yemen, Jordan, Mauritany, Algeria, Comores, etc....

- Master projects : 13
- PhD : 40

Supervise staff working in the Laboratory Physiology-Pharmacology & Environmental Health in the areas of:

- (i). Research and development,
- (ii). Medicinal plants research, quality control
- (iii). Biomarkers of pollution and health impact .
- (iv). Organize training programs, symposium and international conferences

### **International link:**

Maintaining good contacts or working closely with scientific group leaders in the European and American Universities, organizations, institutions and herbaceutical and pharmaceutical industries related to projects and programs in research and scientific knowledge in Advance Pharmacology, Alternative Medicine and Pharmaceutical Molecular pathologies ( Diabete, obesity, hypertension, resistance to antibiotic...).

## Scientific Presentation:

Presenting scientific papers in the national and international conferences and meetings related to the advance/complementary medicine and medicinal plants technologies in cardiovascular, metabolic pathologies, and the new biopharmaceuticals molecules, environmental health and impacts of pollutants

## Research topics :

- Screening and collection of data concerning regional and national valorisation of medicinal plants and their use by population and establishing a formal application by contacting traditional herborists
  - Heavy metals, environment and health
  - Hormonal and metabolic control of kidney function: Effects of depurative medicinal plants
  - Physiopathology of diabetes : Implications of medicinal plants
  - Intoxication by heavy metals : Models of renal failure
  - Acute and chronic toxicity of extracts of Moroccan medicinal plants
  - Genetic models of hypertension : Therapeutic effects of medicinal plants
  - Genetic models of obesity : Effects of natural remedies
  - Biological and genetic abnormalities of diabetes, obesity, hypertension in susceptible population
  - Impact of heavy metals and environmental pollutants on biomarkers of kidney in children, teenagers, women

## SCIENTIFIC PUBLICATIONS

1. **Lyoussi, B.**, Beaujean, V. & Crabbé, J. (1989). Influence of aldosterone on conductive chloride movement across amphibian skin. **Arch. Int. Physiol. Biochim** 98 : P67- P68
2. **Lyoussi, B.**, Granitzer, M., Nagel, W. & Crabbé, J. (1991). Effect of dexamethasone on regulation of Na transport in cultured renal distal cells. **Arch. Int. Physiol. Biochim** 99 (2) P18
3. Granitzer, M., **Lyoussi, B.**, Nagel, W. & Crabbé, J. (1991). Effect of dexamethasone on membrane properties in cultured renal distal cells (A6). **Cell Physiol. Biochem**, I :263- 272
4. Granitzer, M., **Lyoussi, B.**, Nagel, W. & Crabbé, J. (1991). Effect of oxytocin on electrophysiology of cultured renal distal epithelia. **Arch. Int. Physiol. Biochim** 99 (2) : P31
5. Granitzer, M., **Lyoussi, B.**, Nagel, W. & Crabbé, J. (1991). Apical Na<sup>+</sup> entry in cultured renal distal epithelia (A6). International Symposium on aldosterone, 1991, France. Aldosterone Fundamental aspects Ed by J.P Bonvalet, N, Farman, M Lombès, ME Rafestin-Oblin. Vol 215 p 331
6. Granitzer, M., **Lyoussi, B.**, Nagel, W. & Crabbé, J. (1991). Effect of dexamethasone on membrane conductance and (Na<sup>+</sup> + K<sup>+</sup>) / ATPase activity in cultured A6 cells. 70; Tagung der Deutschen Physiologischen Gesellschaft, Sawt 1991 in Freiburg, Germany, **Pflügers Archiv** 419 ( Suppl N 1) : R97 ( 118)
7. **Lyoussi, B.** & Crabbé, J. (1991). Modulation of (Na<sup>+</sup> + K<sup>+</sup>) / ATPase by apical Na<sup>+</sup> entry in cultured renal distal epithelial cells. **Pflügers Arch** 419 : R8
8. **Lyoussi, B.** & Crabbé, J. (1991). Stimulation du transport de Na<sup>+</sup> par la dexaméthasone dans une lignée épithéliale rénale en culture. **Arch. Int. Physiol. Biochim** 99 : A197

9. **Lyoussi, B.**, Beaujean, V. & Crabbé, J. (1991). Corrélation entre l'entrée apicale du Na<sup>+</sup> et l'activité de la (Na<sup>+</sup> + K<sup>+</sup>)-ATPase dans une lignée épithéliale rénale en culture (A6). **Arch. Int. Physiol. Biochim** 99: A105.
10. **Lyoussi, B.** & Crabbé, J. (1992). Influence of osmolality on transepithelial Na<sup>+</sup> transport by A6 line (A6) derived from the distal renal tubule of *Xenopus laevis*. **Arch. Physiol. Biochim**, 100 (1) : P4
11. **Lyoussi, B.** & Crabbé, J. (1992). Relationship between Na<sup>+</sup> transport rate and (Na<sup>+</sup> + K<sup>+</sup>)-ATPase in A6 cells : Effect of low ambient K<sup>+</sup>. **Arch. Int. Physiol. Biochim** 100 (2) P19
12. **Lyoussi, B.** & Crabbé, J. (1992). Influence of apical Na<sup>+</sup> entry on (Na<sup>+</sup> + K<sup>+</sup>)-ATPase in amphibien distal nephron cells (A6). **J. Physiol (london)** : 456: pp 655 - 665.
13. **Lyoussi, B.** & Crabbé, J. (1995). Effect of steroid hormones and peptides on the regulation of (Na<sup>+</sup> + K<sup>+</sup>)-ATPase in tight epithelia. **Pflügers Arch.** Vol 430 N° 4 , R29
14. **Lyoussi, B.** & J. Crabbé. (1996) Effects of corticosteroids on parameters related to Na<sup>+</sup> transport by amphibian renal distal cells (A6) in culture. **J. Steroid. Biochem. & Mol. Biol.** Vol 59, N° 3/4 pp: 323 -331 .
15. **Lyoussi, B.** & J. Crabbé. (1996) Effects of dexamethasone on (Na<sup>+</sup> + K<sup>+</sup>)-ATPase and other parameters related to transepithelial Na<sup>+</sup> transport by amphibian renal distal cells (A6) in culture. **J. Steroid. Biochem. & Mol. Biol.** Volume 59, N° 3 / 4 pp: 333 -338.
16. **B. Lyoussi**, H. Rhiouani and A. Settaf. Diuretic effects of extracts of *Herniaria glabra* in rats. Autumn Meeting 16 November 1996, Gent, Belgium. **Pflügers Arch.** Eur. J. Physiol., 1997, 433: R5-R12.
17. **B. Lyoussi**, H. Rhiouani, A. Settaf, Y. Cherrah and M. Hassar. Diuretic and antihypertensive effects of saponins from *Herniaria glabra* in spontaneous hypertensive rats (SHR). XIIIth International Congress of Pharmacology 26-31 July 1998, Munchen, Germany. **Archives of Pharmacology**, supplement 1 to volume 358 N°1, 1998.
18. **B. Lyoussi**, Lotfi, A. , D. Chabardès. PGE2 and carbachol induces an inhibition of cAMP in the glucagon sensitive cells of the rat OMCD. International Congress of Pharmacology, Munchen, Allemagne , 26-31 juillet 1998 , **Arch of Pharmacology**, supplement 1 V358(2), 1998
19. F. Lamchouri, A. Settaf, Y. Cherrah, M. Zemzami, **B. Lyoussi**, A. Zaid, N. Atif, M. Hassar ( 1999). Antitumor principles from Peganum harmala seeds. **Thérapie**, 54 753-758
20. H. Rhiouani, A. Settaf, **B. Lyoussi**, Y. Cherrah et M. Hassar. Action diurétique des saponines de *Herniaria glabra* chez le rat spontanément hypertendu. **Espérance Médicale**, 1999, 47: 68-71.
21. H. Rhiouani, A. Settaf, **B. Lyoussi**, Y. Cherrah et M. Hassar (1999). Effects of saponins from *Herniaria glabra* on blood pressure and renal function in spontaneously hypertensive rats. **Thérapie** 54 (6) 735-9
22. M. Haloui, J.Baptiste Michel, **B. Lyoussi** (2000). Experimental diuretic effects of Rosmarinus officinalis and Centaurium erythraea . **J. Ethnopharmacology** 71 (3) 465-472
23. M. Haloui, J.F. Arnal, I. Pham, W. Gonzalez, **B. Lyoussi**, J.Baptiste Michel (2000). Functional Compartmentation of endocrine actions of cardiac natriuretic peptides. **Ann Endocrinol ( Paris)** 61(1) 32-40
24. F. Lamchouri, A. Settaf, Y. Cherrah, M. Hassar, M. Zemzami, N. Atif, E.B. Nadori, A. Zaid, **B. Lyoussi** ( 2000). In vitro cell toxicity of Peganum harmala seedsalkaloids on cancerous cell-lines. **Fitoterapia**, 71 (1) 50-54
25. H. Jouad, M. Eddouks, MA Lacaille-Dubois, **B. Lyoussi** (2000). Hypoglycaemic effect of the water extract of *Spergularia purpurea* in normal and streptozotocin induced-diabetic rats. **Journal of Ethnopharmacology** 71 ( 1-2) 169-77

26. Emery, E, Rhrich-Haddout, F, Kassar-Duchossoy, L, **Lyoussi, B**, Tadie, M, Horvat, C. (2000). Motoneurons of the adult marmoset can grow axons and reform motor endplates through a peripheral nerve bridge joining the locally injured cervical spinal cord to the denervated biceps brachii muscle. *J. Neurosci. R* 62 (6) 821-9
27. H. Rhiouani, **B. Lyoussi**, A. Settaf, Y. Cherrah et M. Hassar ( 2001 ). Antihypertensive effect of *Herniaria glabra* saponins in the spontaneously hypertensive rat **Ann Pharm Fr, 59(3) , 211-4**
28. M. Benwahhoud, H. Jouad, M. Eddouks, **B. Lyoussi**.(2001) Hypoglycemic effect of *Suaeda fruticosa* in streptozotocin-induced diabetic rats.**J. Ethnopharmacology, 76 (1) : 35-8**
29. H. Jouad, MA Lacaille-Dubois, **B. Lyoussi**, M. Eddouks ( 2001). Effects of the flavonoids extracted from *spergularia purpurea* Pers. on arterial blood pressure and renal function in normal and hypertensive rats. **Journal of Ethnopharmacology 76 ( 2) 159-63**
30. S. El Bardai, **B. Lyoussi**, M. Wibo, N. Morel ( 2001 ) Pharmacological evidence of hypotensive effects of *marrubium vulgare* and *foeniculum vulgare* in spontaneously hypertensive rats. **Clinical and experimental hypertension, vol 23 ( 4), 329-345**
31. Rhrich-Haddout. F, Kansar –Duchossoy, L., Bauchet, L. D, Destombes, J., Thiesson, D., Butler-Browne, G, **Lyoussi, B**, Baillet-Derbin, C, Horvat, JC. ( 2001). Alpha –motoneurons of the injured cervical spinal cord of the adult rat can reinnervate the biceps brachii muscle by regenerating axons through peripheral nerve bridges : combined ultrastructural and retrograde axonal tracing study. *J. Neurosci. Res* , 64 ( 5 ) : 476-86
32. F. Lamchouri, A. Settaf, Y. Cherrah, M. El Hamidi, NS. Tligui, **B. Lyoussi**, M. Hassar. Experimental toxicity of *Peganum harmala* seeds, *Ann Pharm Fr.* 60 (2), 123-9, **2002**
33. J. Hilali and **B. Lyoussi** ( 2002) Hypoglycaemic effect of the lyophilised aqueous extract of *Ajuga iva* in normal and streptozotocin diabetic rats . **J. Ethnopharmacology, vol 80, 109-113**
34. **B. Lyoussi**, M.A. Ragala, A. Chraibi, S. Mantovani, H. De Togni ( 2002) . Riduzione del sovrappeso attraverso l'assunzione di aminoform 1000, associato ad un regime calorico controllato e attivita fisica , 1-16 **Edition Akros, Italie**
35. El-Bardai S, Wibo M, Hamaide MC, **Lyoussi B**, Quetin-Leclercq J, Morel N. Characterisation of marrubenol, a diterpene extracted from *Marrubium vulgare*, as an L-type calcium channel blocker. *Br J Pharmacol.* **2003** Dec;140(7):1211-6. Epub 2003 Nov 3.
36. El-Hilaly J, Hmammouchi M, **Lyoussi B**. Ethnobotanical studies and economic evaluation of medicinal plants in Taounate province (Northern Morocco). *J Ethnopharmacol.* **2003** Jun;86(2-3):149-58.
37. El Bardai S, Morel N, Wibo M, Fabre N, Llabres G, **Lyoussi B**, Quetin-Leclercq J. The vasorelaxant activity of marrubenol and marrubiin from *Marrubium vulgare*. *Planta Med.* **2003** Jan;69(1):75-7.
38. El Bardai S, **Lyoussi B**, Wibo M, Morel N. Comparative study of the antihypertensive activity of *Marrubium vulgare* and of the dihydropyridine calcium antagonist amlodipine in spontaneously hypertensive rat. *Clin Exp Hypertens.* **2004** Aug;26(6):465-74.
39. El-Hilaly J, **Lyoussi B**, Wibo M, Morel N. Vasorelaxant effect of the aqueous extract of *Ajuga iva* in rat aorta. *J Ethnopharmacol.* **2004** Jul;93(1):69-74.
40. El Bardai S, Hamaide MC, **Lyoussi B**, Quetin-Leclercq J, Morel N, Wibo M. Marrubenol interacts with the phenylalkylamine binding site of the L-type calcium channel. *Eur J Pharmacol.* **2004** May 25;492(2-3):269-72.

**41.**El Hilaly J, Israili ZH, **Lyoussi B**.

Acute and chronic toxicological studies of *Ajuga iva* in experimental animals.

J Ethnopharmacol. **2004** Mar;91(1):43-50.

**42.** A.Touzani, M. candito, L. Chabraoui, A. Balafrej, B. Benhamou, **B. Lyoussi**, M. Lahrichi

( **2004**). L'homoicystéinémie et le phosphate de pyridoxal chez les enfants et les jeunes diabétiques de type 1,

Revue Française des Laboratoires, 363, 29 - 33

**43. Lyoussi B**, Ragala MA, Mguil M, Chraibi A, Israili ZH.

Gender-specific leptinemia and its relationship with some components of the metabolic syndrome in Moroccans.

Clin Exp Hypertens. **2005** May;27(4):377-94.

**44.** Haddad, P, Le and **B. Lyoussi**. Antidiabetic plants of North Africa and the Middle East.

(**2005**) Book Volume "Traditional Herbal Medicines for Modern Times" - Antidiabetic Plants Chapter 12, pp 221 – 241 **Taylor & Francis**

**45. Lyoussi B**, Ragala MA, Mguil M, Chraibi A, Israili ZH ( **2005**) Gender-specific leptinemia and its relationship with some components of the metabolic syndrome in Moroccans. Clin Exp Hypertens.

May;27(4):377-94.

**46.** El-Hilaly J, Tahraoui A, Israili ZH, **Lyoussi B** ( **2006** )

Hypolipidemic effects of acute and sub-chronic administration of an aqueous extract of *Ajuga iva* L. whole plant in normal and diabetic rats.

J Ethnopharmacol. 2006 May 24;105(3):441-8

**47.** Tahraoui A, El-Hilaly J, Israili ZH, **Lyoussi B** ( **2006** )

Ethnopharmacological survey of plants used in the traditional treatment of hypertension and diabetes in south-eastern Morocco (Errachidia province).

J Ethnopharmacol. 2006 Sep 23

9/ Zafar H. Israili, Lyoussi Badiâa; Velasco Manuel; 2006; 1(3): 8-232006; 1(3): 8-23

Metabolic syndrome : treatment of hypertensive patients with this syndrome

Revista Latinoamericana de Hipertensión. Vol. 1 N° 4, **2006**

**48.** El-Hilaly J, Tahraoui A, Israili ZH, **Lyoussi B**.

Acute hypoglycemic, hypocholesterolemic and hypotriglyceridemic effects of continuous intravenous infusion of a lyophilised aqueous extract of *Ajuga iva* L. Schreber whole plant in streptozotocin-induced diabetic rats. Pak J Pharm Sci. **2007** Oct;20(4):261-8.

**49.** Lahlou S, Tahraoui A, Israili Z, **Lyoussi B** ( **2007** )

Diuretic activity of the aqueous extracts of *Carum carvi* and *Tanacetum vulgare* in normal rats. J

Ethnopharmacol. Ethnopharmacol. 2007 Apr 4;110(3):458-63

**50.**Israili ZH, **Lyoussi B**, Hernández-Hernández R, Velasco M.

Metabolic syndrome: treatment of hypertensive patients.

Am J Ther. **2007** Jul-Aug;14(4):386-402. Review.

**51.**El-Hilaly J, Tahraoui A, Israili ZH, **Lyoussi B**.

Acute hypoglycemic, hypocholesterolemic and hypotriglyceridemic effects of continuous intravenous infusion of a lyophilised aqueous extract of *Ajuga iva* L. Schreber whole plant in streptozotocin-induced diabetic rats.

Pak J Pharm Sci. **2007** Oct;20(4):261-8.

**52.**Lahlou S, Tahraoui A, Israili Z, **Lyoussi B**.

Diuretic activity of the aqueous extracts of *Carum carvi* and *Tanacetum vulgare* in normal rats. *J Ethnopharmacol.* 2007 Apr 4;110(3):458-63. Epub 2006 Oct 19.

**53.** Tahraoui A, El-Hilaly J, Israili ZH, **Lyoussi B.**

Ethnopharmacological survey of plants used in the traditional treatment of hypertension and diabetes in south-eastern Morocco (Errachidia province).

*J Ethnopharmacol.* 2007 Mar 1;110(1):105-17. Epub 2006 Sep 23.

**54.** El AY, Berraho M, Benslimane A, Chrit M, El Hassani H, **Lyoussi B,** Nejjar C.

Diabetes and erectile dysfunction in Morocco: epidemiological study among outpatients]

*East Mediterr Health J.* 2008 Sep-Oct;14(5):1090-100. French.

**55.** El Achhab.Y, El Fakir S, Ouédraogo N, El Rhazi K, Berraho A, **Lyoussi B,** Nejjar C. Accidents d'Exposition au Sang (AES) et dispositif de prise en charge: résultats d'une enquête réalisée auprès des professionnels de santé Cahiers du Médecin (sous presse).

**56.** El Achhab Y, Meyre D, Bouatia-Naji N, Berraho M, Deweirder M, Vatin V, Delplanque J, Serhier Z, **Lyoussi B,** Nejjar C, Froguel P, Chikri M.(2008)

Association of the ENPP1 K121Q polymorphism with type 2 diabetes and obesity in the Moroccan population.

*Diabetes Metab.* 2008 Nov 27.

**57.** Lahlou S, Tangi KC, **Lyoussi B,** Morel N ( 2008)

Vascular effects of *Tanacetum vulgare* L. leaf extract: in vitro pharmacological study.

*J Ethnopharmacol.* 2008 Oct 30;120(1):98-102.

**58.** M'guil M, Ragala MA, El Guessabi L, Fellat S, Chraïbi A, Chebraoui L, Israili ZH, **Lyoussi B** (2008)

Is Ramadan fasting safe in type 2 diabetic patients in view of the lack of significant effect of fasting on clinical and biochemical parameters, blood pressure, and glycemic control?

*Clin Exp Hypertens.* 2008 Jul;30(5):339-57.

**59.** Rhiouani H, El-Hilaly J, Israili ZH, **Lyoussi B.** ( 2008)

Acute and sub-chronic toxicity of an aqueous extract of the leaves of *Herniaria glabra* in rodents.

*J Ethnopharmacol.* 2008 Aug 13;118(3):378-86. Epub 2008 May 15.

**60.** Lahlou S, Israili ZH, **Lyoussi B** ( 2008)

Acute and chronic toxicity of a lyophilised aqueous extract of *Tanacetum vulgare* leaves in rodents.

*J Ethnopharmacol.* 2008 May 8;117(2):221-7.

**61.** El Achhab Y, Nejjar C, Chikri M, **Lyoussi B.**

Disease-specific health-related quality of life instruments among adults diabetic: A systematic review.

*Diabetes Res Clin Pract.* 2008 May;80(2):171-84.

**62.** Cherkaoui-Tangi K, Lachkar M, Wibo M, Morel N, Gilani AH, **Lyoussi B.**

Pharmacological studies on hypotensive, diuretic and vasodilator activities of chrysin glucoside from *Calycotome villosa* in rats.

*Phytother Res.* 2008 Mar;22(3):356-61.

**63.** Aissaoui A, El-Hilaly J, Israili ZH, **Lyoussi B.**

Acute diuretic effect of continuous intravenous infusion of an aqueous extract of *Coriandrum sativum* L. in anesthetized rats.

*J Ethnopharmacol.* 2008 Jan 4;115(1):89-95

**64.** El AY, Berraho M, Benslimane A, Chrit M, El Hassani H, **Lyoussi B,** Nejjar C.

[Diabetes and erectile dysfunction in Morocco: epidemiological study among outpatients]

*East Mediterr Health J.* 2008 Sep-Oct;14(5):1090-100. French.

- 65.** Israili ZH, **Lyoussi B**, Hernández-Hernández R, Velasco M. Tratamiento de pacientes hipertensos con síndrome metabólico. In: Hypertension Arterial Para el Clínico, Hernández-Hernández R, Velasco M, Armas-Padilla, Maria Jose, eds., Dinamic Signs c.a., Caracas, Venezuela **2008**, pp. 401-422.
- 66.** A.Touzani, M. candito, L. Chabraoui, **B. Lyoussi**. Metabolic syndrome in moroccan children and adolescents . **Obesity 2011** ( in press)
- 67.** Jabeen Q, Bashir S, **Lyoussi B**, Gilani AH.  
Coriander fruit exhibits gut modulatory, blood pressure lowering and diuretic activities.  
J Ethnopharmacol. **2009** Feb 25;122(1):123-30. Epub 2008 Dec 25
- 68.** Israili ZH, **Lyoussi B**.  
Ethnopharmacology of the plants of genus Ajuga.  
Pak J Pharm Sci. **2009** Oct;22(4):425-62.
- 69.** Tahraoui A, Israili ZH, Lyoussi B.  
Acute and sub-chronic toxicity of a lyophilised aqueous extract of *Centaurium erythraea* in rodents.  
J Ethnopharmacol. **2010** Oct 28;132(1):48-55. Epub 2010 Aug 26.
- 70.** Gaamoussi F, Israili ZH, Lyoussi B.  
Hypoglycemic and hypolipidemic effects of an aqueous extract of *Chamaerops humilis* leaves in obese, hyperglycemic and hyperlipidemic Meriones shawi rats.  
Pak J Pharm Sci. **2010** Apr;23(2):212-9.
- 71.** Ali El Antri a, Nadya Lachkar a, Hanane El Hajjaji a, Farah Gaamoussi b, Badiaa Lyoussi b, Brahim El Bali c, Nicole Morel d, Hassan Allouchi e, Mohammed Lachkar a,\*  
Structure elucidation and vasodilator activity of methoxy flavonols from *Calycotome villosa* subsp. *intermedia*  
Arabian Journal of Chemistry (**2010**) 3, 173–178
- 72.** Troudi A, Bouaziz H, Soudani N, Ben Amara I, Boudawara T, Touzani H, Lyoussi B, Zeghal N.  
Neurotoxicity and oxidative stress induced by gibberellic acid in rats during late pregnancy and early postnatal periods: Biochemical and histological changes.  
Exp Toxicol Pathol. **2011** Jan
- 73.** Mediha Sefi, Hamadi Fetoui, Nadya Lachkar, AdilTahraoui, Badiaa Lyoussi, Tahia Boudawara, Najiba Zeghal  
*Centaurium erythraea* (Gentianaceae) leaf extract alleviates streptozotocin-induced oxidative stress and  $\beta$ -cell damage in rat pancreas, J Ethnopharmacology, 2011
- 74.** Aissaoui A, Zizi S, Israili ZH, **Lyoussi B**.  
Hypoglycemic and hypolipidemic effects of *Coriandrum sativum* L. in Meriones shawi rats.  
J Ethnopharmacol. 2011
- 75.** Smail Aazza<sup>1,2\*</sup>, Badiâ Lyoussi<sup>1</sup>, Maria G. Miguel<sup>2</sup>  
Antioxidant and anticholinesterase activities of some commercial essential oils and their major compounds  
Molecules. 2011 Sep 7;16(9):7672-90.
- 76.** Mharti FZ, Lyoussi B, Abdellaoui A  
Antibacterial activity of the essential oils of *Pistacia lentiscus* used in Moroccan folkloric medicine.  
Nat Prod Commun. 2011 Oct;6(10):1505-6.
- 77.** Smail Aazza<sup>1,2\*</sup>, Badiâ Lyoussi<sup>1</sup>, Maria G. Miguel<sup>2</sup>  
Antioxidant activity of some Moroccan hydrosols  
Journal of Medicinal Plants Research Vol. 5(30), pp. 6688-6696, 16 December, 2011



## COMMUNICATIONS

1. **Lyoussi, B.**, Herbuté, S. & Baylé, J.D. ( **1984** ) : Le rôle de l'hypothalamus dans la réponse thyroïdienne au froid. Premier Congrès Scientifique International organisé conjointement par l'Association Marocaine de Neurosciences et l'Association de physiologistes de France, rabat, **Morocco**
2. **Lyoussi, B.**, Herbuté, S. & Baylé, J.D. ( **1985** ) : Régulation noradrénergique centrale de la réponse thyroïdienne au froid. 110 ème Congrès National des Sociétés Savantes, Montpellier, **France**
3. **Lyoussi, B.**, Herbuté, S. & Baylé, J.D. ( **1988** ) : Influence des catécholamines dans la réponse thyroïdienne au froid. 2ème Congrès Scientifique International organisé conjointement par l'Association Marocaine de Neurosciences et l'Association de physiologistes de France à Laayoune, **Morocco**
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**105.** J. Laamech, K. Cherkaoui-Tangi, A. Laamarti, B. Lyoussi ( **2006**)

Effet toxicologique, anatomopathologique et hypotenseur de la *Berberis vulgaris* L . chez la souris et le lapin normotensif  
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**106.** Lahlou S, Morel N., Bacceli C., Mavar H., Auclair G., Haddad M., Quetin-Leclercq, Lyoussi B ( **2006**)

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**107.** N.Lachkar, K.Cherkaoui-Tangi, A.Tahouri, D.Couissi, M. Bourhim, B.Lyoussi ( **2006**)

Etude de l'effet hypoglycémiant d' *Ammadaucus Leucotrichus* chez le rat streptozotocine  
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**108.** Tahraoui A , Lyoussi B. ( **2006**)

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**109.** A.Touzani., N.Bennani., B.Lyoussi., N. Benchrif., L.Chabraoui., M.Lahrichi., A.Balafrej. **Association** dysthyroidies auto-immunes et diabète de type 1 chez les Enfants et les jeunes patients : étude prospective sur 446 cas. Congrès Maghrébin de Pédiatrie, 8-9 Avril, Hammamet- Tunisie, Mai 2005.

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- 114.** K. Cherkaoui-Tangi, M. Lachkar, M. Wibo, N. Morel , A.Gilani, B. Lyoussi ( **2007**)  
Pharmacological studies on hypotensive, diuretic and vasodilator activities Cardiovascular effects of a chrysin glucoside from *Calycotome Villosa subsp. Intermedia* in anaesthetized rats  
International symposium sur le medicament de phytothérapie et plantes médicinales, Constantine, 17-19 Mars 2007
- 115.** Lahlou S., Morel N., Bacceli C., Mavar H., Haddad M., Quetin-Leclercq J and Lyoussi B ( **2007**)  
Vasodilatory effect of flavonoid extracted from *tanacetum vulgare* . International symposium sur le medicament de phytothérapie et plantes médicinales, Constantine, 17-19 Mars 2007
- 116.** Qaiser Jabeen · Samra Bashir, Anwar H. Gilani , Badiâa Lyoussi, ( **2007**)  
Studies on cardiovascular and diuretic activities of coriander sativum. International symposium sur le medicament de phytothérapie et plantes médicinales, Constantine, 17-19 Mars 2007
- 117.** Jaouad El-Hilaly,M. Wibo, J. Leclercq, N. Morel and B. Lyoussi ( **2007**)  
Toxicological and pharmacological properties of *Ajuga iva* in experimental animals models  
International symposium sur le medicament de phytothérapie et plantes médicinales, Constantine, 17-19 Mars 2007
- 118.** M.Mguil ; B.Lyoussi ; A. Chraïbi (CHU Ibn Sina de Rabat, Faculté des Sciences de Fès)  
Evaluation de paramètres clinico-biologiques au cours du Ramadan  
2ème journée d'Endocrinologie, Diabétologie Ibn Sina Rabat, Samedi 08 septembre **2007**
- 119.** F. Latrache, A.El Antri, K. Cherkaoui-Tangi, B. Lyoussi, B. El Bali, N. Morel, H. Allouchi, M. Lachkar ( **2007**)  
Flavonoids from *Calycotome Villosa subsp. Intermedia* : isolation, X – ray Structure determination and vasodilator activity. Congrès International sur les plantes médicinales et aromatiques, Fès, 22-24 Mars 2007
- 120.** K. Cherkaoui-Tangi. M. Wibo, N. Morel , B. Lyoussi ( **2007**)  
Antidiabetic and hypotensive effects of *Calycotome villosa* Subsp. *Intermedia* seeds in Meriones Shawi rats  
The International Conference: Biotechnology and Environmental Science, November 19-21, **2007**
- 121.** Hamid Rhiouani, Jaouad El-Hilaly , Zafar H. Israïli & Badiâa Lyoussi  
Acute and sub-chronic toxicity of an aqueous extract of the leaves of *Herniaria glabra* in rodents  
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- 122.** Tahraoui A , Lyoussi B.(**2007**)  
Acute and chronic toxicological studies of *Centaurium erythraea* in experimental animals  
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- 123.** Abderahim Aïssaoui , Jaouad El-Hilaly , Zafar H. Israïli , Badiâa Lyoussi ( **2007**)  
Acute diuretic effect of continuous intravenous infusion of an aqueous extract of *Coriandrum sativum* L. in anesthetized rats. The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.
- 124.** EL ARABI Ilham and LYOUSSI Badiâa ( **2007**)  
Adaptatives strategies of plants to abiotic stress : Contribution to the study of environmental signals transduction : some agonists and antagonists effects on stomatal responses : Transduction of signlas ABA and calcium in guard cells of *Vicia faba*, *Commelina communis* and *Arabidopsis thaliana*.  
The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.
- 125.** Fatima Lamchouri, Mustafa Zemzami, Akino Jossang, Abdellatif Settaf and Badiâa Lyoussi (**2007**)  
Antiproliferative constituents from *Zygophyllaceae* plants  
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Cardiovascular effects of *Tanacetum vulgare* L. leaf extract: *in vitro* : pharmacological study

The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.

**128.** A. Chouiakh, N Lachkar, K Cherkaoui, B Lyoussi ( 2007)

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**129.** Y. Jardoui, N. Lachkar, K. Cherkaoui, B.Lyoussi (2007)

Diuretic and hypotensive effect of *cucurbita pepo* in experimental animals

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**130.** K. Cherkaoui-Tangi; J. El-Hilaly; A.H. Gilani ; B. Lyoussi (2007)

Ethnobotanical survey and pharmacological screening of medicinal plants used as antihypertensive in Sefrou province (Middle North of Morocco : Benefits and challenges)

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**131.** Y. Jardoui, N. Lachkar, K. Cherkaoui-Tangi, B.Lyoussi (2007)

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**132.** Kaddafi Ali, Kacimi Alaoui Hajar, B.Lyoussi ( 2007)

Etude de l'effet diurétique et hypotensif de *Centaureum erythraea* Rafn chez le rat et le lapin

The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.

**133.** M.Moumouh, M.A. Ragala, B. Lyoussi (2007)

Effect of supplementation of traditional medicinal plants on blood glucose in non – insulin – dependent diabetics from Fez – Boulemane region The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.

**134.** Adil Tahraoui and Badiâ lyoussi (2007)

Hypoglycaemic effect of the lyophilised aqueous extract of *Erythrea centaureum* in normal and streptozotocin diabetic rats. The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.

**135.** N. Lachkar, K. Cherkaoui Tangi , B.Lyoussi (2007)

Hypoglycemic and hypolipidemic effect of *Ammadaucus Leucotricus* L. in normal and streptozotocin induced diabetic rats.

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**136.** Farah Gaamoussi, ZafarH.Israili and Badiâ Lyoussi (2007)

Hypoglycaemic effect of *Chamaerops HUMILIS* IN *Meriones shawi* rats

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Pharmacological studies on hypotensive, diuretic and vasodilator activities of chrysin glucoside from *Calycotome villosa* in rats

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**138.** Jawhar Laamech , Khadija Cherkaoui Tangi , Afaf Laamarti , Badiâ Lyoussi (2007)

Toxicological , anatomopathological and hypotensive investigations on *Berberis vulgaris* in experimental animals

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- 139.** Lahlou S., Morel N., Baccelli C., Mavar H., Haddad M., Quetin-Leclercq J and Lyoussi B (2007)  
Vasodilatory effect of flavonoid extracted from *Tanacetum vulgare*  
The International Conference: Biotechnology and Environmental Science, November 19-21, 2007.
- 140.** Youness El Achhab, Nerjjari, Lyoussi, Chikri .(2008)  
The Association of ENPP1K121Q Polymorphism with Type 2 Diabetes and Obesity in the Moroccan Population.  
SRO5 , Fez, Morocco
- 141.** Asmae Touzani, Chabraoui, Zafar, Lyoussi (2008)  
Adipocytokines and Some Cardiometabolic Factors Associated with Obesity in Children and adolescents.  
SRO5 , Fez, Morocco
- 142.** Sanaa Lahlou, N. Morel, J. Leclercq, B.Lyoussi.(2008)  
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And *Carum Carvi*, Two Plants Used in the Traditional Treatment of Hypertension in Morocco. SRO5  
conference, 25-30 Octobre 2008
- 143.** A Tahraoui, B.Lyoussi .(2008)  
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- 144.** Khadija Cherkaoui-Tangi, N. Morel, B.Lyoussi.(2008)  
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- 145.** Farah Gaamoussi, Zafar, B.Lyoussi (2008)  
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- 146.** M. M'guil, Chraibi, Chabraoui, Zafar, Lyoussi (2008)  
Is Ramadan Fasting Safe in Type 2 Diabetic Patients in View of the Lack of Significant Effect of Fasting on Clinical and Biochemical Parameters, Blood Pressure, and Glycemic Control?  
SRO5 conference, 25-30 October 2008
- 147.** Fatima Aguiri, C.Nejjari, B.Lyoussi. (2008)  
Study of Behavioural Risk Factors for Cancers : Nutrition, Tobacco, Alcohol in the Fez-Sefrou Region.  
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- 148.** Youness Jardiou, Cherkaoui, B.Lyoussi (2008)  
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- 149.** Jawhar Laamech, Lamarti, B.Lyoussi (2008)  
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- 150.** Azdine Chouiakh, K. Cherkaoui, B.Lyoussi (2008)  
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- 151.** Sanaa Lahlou, Zafar, B.Lyoussi. (2008)  
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- 152.** Hajar Manyani, A. Abidi, B.Lyoussi (2008)  
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- 153.** A.touzani, Draï, Gaouzi, Lyoussi.B , Lahrichi, Chabraoui.L (2008)  
Marqueurs biologiques et profil métabolique chez l'enfant obèse . 8èmes Journées nationales de Biologie Clinique (2008)  
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- 154.** A.touzani, Draï, Gaouzi, Lyoussi.B, Lahrichi, Chabraoui.L (2008)  
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- 155.** Khadija Cherkaoui, zafar, B.Lyoussi (2008)  
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- 156.** Fatima Lamchouri, B. Lyoussi (2008)  
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- 157.** Latifa Doudach, Y. Cherrah, B.Lyoussi (2008)  
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- 158.** H, Rhiouani , J. ElHilaly, Zafar, B.Lyoussi (2008)  
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- 159.** Mounia Moumouh, B. Lyoussi (2008)  
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- 160.** Nadia Lachkar, K. Cherkaoui, B.Lyoussi. (2008)  
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- 161.** Jawhar Laamech, B.Lyoussi (2008)  
Renal Markers and Toxic Metals in Children and Adolescents from Rural, Urban and Industrial Area. SRO5 conference, Fez, Morocco, 25-30 October 2008
- 162.** Sanae Masmoudi, B.Lyoussi, Bouklouze (2008)  
A Comparative Study of the Analytical Method Validation of Albendazole Using UV Spectrophotometry: The Classical Procedure Vs The New Procedure (AccuracyProfile). SRO5 conference, Fez, Morocco, 25-30 October 2008
- 163.** Hajar Manyani, Abidi, B.Lyoussi (2008)  
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- 164. B. Lyoussi (2008)**  
Sources of exposure , geographical patterns and time trends : Exposure to elements in children and women  
Workpackage leader : partner 33 (PPSE), Morocco  
**International meeting of European Project Phime , Prague, 2008**
- 165.** Jawhar Laamech, Khadija Cherkaoui Tangi, Afaf Lamarti and Badiiaa Lyoussi (2009)  
Scientific valorisation of a Moroccan medicinal plant : toxicological and pharmacological effect of lyophilized extract of *Berberis vulgaris L.*  
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**166.F.Z. Mharti, M. Ghanmi, B. Satrani, B. Lyoussi, A. Laabid (2009)**

Valorisation of essential oil of *Lavandula dentate* & *Lavandula stoechas* ( morocco) International conference on medicinal and aromatic plants, Ifrane, **Morocco**, 24-26 September

**167. B. Lyoussi, J. Laamech, F. Aguiri, Z. Khalil, N. Lachkar, I. Aazza, K. Cherkaoui, S. Zizi, X. Dumont, A. Bernard ( 2009)**

Heavy metals, renal biomarkers, ochratoxine A in susceptible Moroccan population : Workpackage leader : partner 33 (PPSE), Morocco. International meeting of European Project Phime, **Lund, Sweden**

**168. Badiia Lyoussi and Zafar H. Israili (2009)**

Treatment of hypertension in patients with the metabolic syndrome

19th European Meeting on Hypertension, **Milan, Italy**, June 12 - 16, 2009

## **2010**

E. Dewich, Z. Benziane, F. Mharti. A. Abdellaoui and B. Lyoussi (2010)

Environmental Impacts of Wastewater Irrigation on Groundwater Quality- A Case Study of Fez City (Morocco) International Conference on Pollution, environmental Health and sustainable development, Fez, Morocco

E. Dewich, Z. Benziane, F. Mharti. A. Abdellaoui and B. Lyoussi ( 2010)

Impact of Rejections of the Sefrou City on the Chemical Quality of Groundwater- Morocco

International Conference on Pollution, environmental Health and sustainable development Fac. Sc. FEZ (Morocco)

Essahli FZ. A. Chouiakh, **A. Abdellaoui**, et B. Lyoussi ( 2010)

Recensement des plantes utilisées dans le traitement du diabète, de hypertension artérielle dans la ville Outat El Haj : exploration de l'effet antidiabétique des margines chez les rats rendus diabétiques par la streptozotocine International Conference on Pollution, environmental Health and sustainable development , FEZ (Morocco)

Mharti F- Z, Khatouf M., **Abdellaoui A.** Derwich E., Lyoussi B ( 2010)

Incidence of nosocomial infections in a university hospital (Fès, Maroc)

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FZ. Mharti1, E. Derwich, M. Khatouf, I. Elarabi. B. Lyoussi and **A. Abdellaoui ( 2010)**

Antibacterial activity of essential oil of *Salvia officinalis* tested on the bacteria strains responsible of nosocomial infection

International Conference on Pollution, environmental Health and sustainable development Fac. Sc. FEZ (Morocco)

F. Mharti, E. Derwich, I. Elarabi, B. Lyoussi and **A. Abdellaoui ( 2010)**

Extraction and Phytochemical screening of essential oil of leaves of *Pistacia lentiscus* Grown in Morocco

International Conference on Pollution, environmental Health and sustainable development Fac. Sc. FEZ (Morocco)

F. Mharti, E. Dewich, B. Lyoussi et **A. Abdellaoui ( 2010)**

Activité antibactérienne d'huiles essentielles du *rosmarinus officinalis* testée sur quatre souches bactériennes responsables des infections nosocomiales

International Conference on Pollution, environmental Health and sustainable development Fac. Sc. FEZ (Morocco)

F. Mharti, E. Dewich, B. Lyoussi et A. Abdellaoui ( 2010)  
Analyse par couplage (CPG/SM) de l'huile essentielle de cymbopogon schoenanthus extraite par entrainement a la vapeur  
The 4th International Meeting On Molecular Chemistry and Development Marrakech (Morocco)

F. Mharti, E. Daoudy H. Dewich, B. Lyoussi et A. Abdellaoui ( 2010)  
Valorisation et comparaison de la composition chimique des huiles essentielles du rosmarinus officinalis du moyen et du haut atlas (maroc)  
The 4th International Meeting On Molecular Chemistry and Development Marrakech (Morocco)

Hruba, Frantiska; Strömberg, Ulf; Cerna, Milena; Chunying, Chen; Harari, Florencia; Harari, Raúl; Horvat, Milena; Osredkar, Josko; , Koppova, Kvetoslava; Kos, Andreja; Lundh, Thomas; Lundström, Nils-Göran; Löfmark, Lina; Lyoussi, Badiia; Laamech, Jawhar; Krsnik, Mladen; Pawlas, Krystyna; Pawlas, Natalia; Rentschler, Gerda; Spevackova, Vera; Špirić, Zdravko; Yu-Feng, Li; Skerfving, Staffan; Bergdahl, Ingvar A.  
**Sources of exposure, geographical patterns and time trends: Exposure to elements in children and women: Blood cadmium, mercury, and lead in city children from Croatia, Czech Republic, Poland, Slovakia, Slovenia, Sweden, China, Ecuador and Morocco, // EU FP6 PHIME Fourth Annual meeting, Athens, Greece, 9-12 March 2010,.**

## 2011

Badiia lyoussi, Qaiser Jabeena, Samra Bashira, Anwar H. Gilani  
Coriander fruit exhibits gut modulatory, blood pressure lowering and diuretic activities  
Bahrain 2011 Pan Arab and European HTN Conference, 11-13February 2011

B. Lyoussi, K. Cherkaoui-Tangi, M. Wibo, N. Morel , A.Gilani  
Cardiovascular effects of a chrysin glucoside from Calycotome villosa subsp. Intermedia. Diuretic, hypotensive and vasodilator effect on anaesthetized rats  
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Badiia lyoussi  
Experimental animal models for drug studies  
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FZ. Mharti, M. khatouf, A. Abdellaoui, A. Gourch, B. Lyoussi, E ( 2011)  
Incidence of nosocomial infection in reanimation pulmonary in CHU Hassan II of Fez (Morocco)  
Biofilms in nosocomial fungal infections  
Institut Pasteur, Paris, France, 2011 31st January -1<sup>st</sup> February

F. Mharti, M. Khatouf, B. Lyoussi and A. Abdellaoui ( 2011)  
Antibacterial activity and phytochemical screening of the essential oils of two species (pistacia lentiscus and salvia officinalis) used in the moroccan folkloric medicine  
the 3 International Congress on Aromatic and medicinal Plants (CIPAM 2011), Cagliari, Sardinia, Italy, 13 -15 April, 2011.

Smail Aazza, Badiâa Lyoussi and Maria G. Miguel  
Antioxidant Activity of Eight Hydrosols from Morocco  
The 2nd Euro-Med Conference Plant Natural Products , Alexandria, Egypt  
11 13 Dec 2011

Smail Aazza, Badiâa Lyoussi and Maria G. Miguel  
Antioxydant effects of aromatic Moroccan plants  
42 international symposium on essential oils, 11-14 september 2011, Antalya , Turkey

Smail Aazza 1,2,, Badiâa Lyoussi 1 and Maria G. Miguel  
Acetylcholinesterase Inhibitory Activity of Portuguese Thymus species Essential Oils and their main components.  
4 th International Chemistry conference , Nov 19-21, 2011, Riyadh, Saudi arabia

B. Lyoussi  
Role of ethnopharmacology on medicinal plants from Quran and hadyith  
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A. Chouiakh, Zafar.H, B.Lyous  
Effect of punica granatum extracts on biochemical parametrs in experimental model of diabete type 2 ; Merione Shawi rats  
4 th International Chemistry conference , Nov 19-21, 2011, Riyadh, Saudi arabia

## **CONFERENCES AND INVITED LECTURES**

**1/ 17, 18 Février, 2001**, Aldostérone et peptides natriurétiques cardiaques : aspects physiologiques et pharmacologiques, Deuxièmes journées de l'HTA, **Société algérienne d'hypertension artérielle, Alger**

**2/ February 21, 2001**, Plantes médicinales marocaines et physiopathologie expérimentale et clinique, **Fac Pharmacie, Alger**

**3/ September, 24, 2001**. Moroccan Society of Endocrinology, Metabolic disorders :**Ghreline, leptin and physiopathology of Obesity**

**4/ 3-6 Octobre 2001, Congrès francophone d'HTA , Beyrouth, Liban**  
Génétique de l'Obésité

**5/ 24<sup>th</sup> – 27<sup>th</sup> March, Sharjah, UAE, The Second Symposium on Scientific Research Outlook in the Arab World 2002**. Medicinal plants as therapeutic source

**6/ 2-4 May, 2002, International symposium RPMA 2002, Fac Med pharm, Rabat**

**7/ Second International Conference on metals and brain**, Fez, 25-28 September **2002**  
Neurotoxicological and neuropharmacological investigations of medicinal plants

**8/ 29-31 May 2002, Université de Cadiz, Espagne**, 3<sup>ème</sup> rencontre Andalou-Marocaine sur la chimie des produits naturels. ” *Medicinal plants as a therapeutic source* ”

**9/ First Mediterranean forum of Kidney diseases**, 30-31 January – 1 st February **2003**, Marrakech, “ *Diuretics : from cellular pharmacology to therapeutics*”

**10/ 3<sup>ème</sup> Congrès National de La Société Algérienne d'Hypertension Artérielle**, ( 2003). Phytothérapie et hypertension artérielle, Alger, El Aurassi, 1 Mars

**11/ Congrès de La Société Marocaine d'Hypertension Artérielle** ( 2003). Place de la phytothérapie dans le traitement de l'hypertension artérielle, 10 Mai, Casablanca

12/ 2<sup>nd</sup> International Congress on traditional medicine & Materia Medica , tehran, iran, 4 – 7 October (2004) .  
Novel strategies for quality control and development of phytomedicaments

**13/ The 8th. Scientific Meeting of Egyptian .Hypertension .Society, april 7-9, 2004**

Nutritional supplement and hypocaloric diet for weight loss: a randomized, double- blind trial

14/ Premier Symposium International sur la phytothérapie (2004): approche thérapeutique, 23 Mars 2004 ,  
Faculté des Sciences DHM, Fès. Phytothérapie entre tradition et science

15/ Journée Nationale des pôles de compétence, 25 Février 2004, Casablanca

16/ B.Lyoussi. role of ethnopharmacology in the development of natural products ( 2004) . **The first international Symposium on environment protection for sustainable development : biotechnological aspects : 15-17 December 2004, Fez, Morocco**

17/ B. Lyoussi (2005)

Nouvelles stratégies du développement de molécules pharmacologiquement actives à partir de plantes , Faculté de médecine, Laboratoire de Physiologie-Pharmacologie, Université de Mons, Belgique

18/ B.Lyoussi ( 2005)

Rôle de l'ethnopharmacologie dans le développement de drogues d'origine végétale, UCL, Bruxelles, September

19/ B. Lyoussi.Gestion du risque toxique au Maroc ( 2005). **Ministère de la Santé, Centre National de Toxicologie, INSP, Alger, November 16, 2005**

20/ B. Lyoussi ( 2005)

Journée Mondiale de l'environnement, Ecole Nationale de Santé militaire, Hôpital central de l'armée, Alger.  
Evaluation des risques sanitaires des métaux lourds , dioxines et PCBs polluant l'environnement

21/ B. Lyoussi, MA. Ragala, M'guil, M, A. Chraibi, ZafarH. Israili (2005)

Leptinemia and metabolic syndrome 5th conference of the Pan Arab Hypertension Society, September 14-17, Tunis

**22/ B.Lyoussi & I. ElArabi (2006)**

Strategies for a sustainable development of abiotic stress : contribution of environmental transduction pathways  
International Symposium on Strategies for Crop Improvement against Abiotic Stresses, 18-20 September 2006,  
Faïçalabad, Pakistan

23/ 4<sup>ème</sup> **Congrès National de La Société Algérienne d'Hypertension Artérielle, (2005). MECANISMES D'ACTION ET UTILISATION THERAPEUTIQUE DES DIURETIQUES, Alger, El Aurassi, 26 – 29 Février 2005**

24/ International conference on the implementation of the regulations on GMOS, Tunis, 28-29 September **2005**

**25/ Colloque International sur la Biotechnologie , Monastir, Octobre 2005**

Organismes génétiquement modifiés : Défis biotechnologiques et enjeux économiques

26/ B. Lyoussi ( 2006)

Metabolic Syndrome

1<sup>er</sup> Colloque International : " Santé et Développement Humain " Hôtel Jnane Palace, Fès, Maroc

27 - 28 Janvier 2006

27/ B. Lyoussi ( 2006). Standardisation , valorisation et validation des produits d'origine végétale , Semaine Nationale de la Science, Thématique : Biotechnologie et valorisation des plantes, 18 Avril 2006

28/ Modèles animaux expérimentaux, exploration des plantes médicinales et des polluants toxiques, Faculté de Médecine et de Pharmacie de Sfax, Tunis, Juin 2006



**29/** The International Congress on ethnopharmacology, 22-26 august 2006, Nanning, China : ethnobotanical studies and ethnopharmacological properties of Moroccan medicinal plants

**30/** International Conference on Environmental epidemiology & exposure, september 2-6, 2006

**31/** The future role of natural products in health care ( 2006)

2ème symposium international sur les plantes aromatiques et médicinales, Marrakech, 14-16 Septembre 2006

**32/** B. Lyoussi. Relations entre la leptinémie et les autres paramètres du syndrome métabolique

(2006). Première Journée d'Endocrinologie, Diabétologie IBN SINA, Fac Médecine et de Pharmacie de Rabat, 16 Septembre 2006

**33/** Mechanism(s) of antihypertensive action of plants used in traditional medicine ( 2006)

B. Lyoussi & Zafar H. Israili, Laboratory Physiology-Pharmacology & Environmental Health, Faculté des Sciences, Dhar El Mehraz, Fez, Morocco, Department of Med, Emory University, Atlanta. USA .  
International Symposium on cardiovascular risk factors , 23-25 November 2006, Fez, Morocco

**34/** B.Lyoussi & Zafar H Israili ( 2006)

Management of patients with the metabolic syndrome

The 4<sup>th</sup> conference on Scientific Research Outlook & Technology Development in the Arab World , Dec 11-14, 2006 , Damascus, Syria

**35/** Lyoussi, B, Ragala MA, Chraibi A, S. Mantovani

Nutritional Supplement and Hypocaloric Diet for Weight Loss : A Randomized , Double- Blind Trial

The 4<sup>th</sup> conference on Scientific Research Outlook & Technology Development in the Arab World , Dec 11-14, 2006 , Damascus, Syria

**36/** ASTF technical activities network ( 2006)

B. Lyoussi

The 4<sup>th</sup> conference on Scientific Research Outlook & Technology Development in the Arab World , Dec 11-14, 2006 , Damascus, Syria

**37/** B. Lyoussi ( 2006)

Evaluation of The Health Risks of Heavy Metals Polluting the Environment

The 4<sup>th</sup> conference on Scientific Research Outlook & Technology Development in the Arab World , Dec 11-14, 2006 , **Damascus, Syria**

**38/** B. Lyoussi ( 2006)

Success of women in Science

The 4<sup>th</sup> conference on Scientific Research Outlook & Technology Development in the Arab World , Dec 11-14, 2006 , **Damascus, Syria**

**39/** B. Lyoussi ( 2007)

Innovative Science, Technology, Engineering partnership

International Conference on Women leaders in Science, Technology and Engineering, 8-10 January 2007, **Kuwait**

**40/** Pr Badiia Lyoussi (2007)

Medicinal plants as dietary supplements in cardiovascular pathologies

V<sup>èmes</sup> CONGRES DE LA SAHA Algerian Society of Hypertension

SAHA 21. 22 .23 Février 2007 Hôtel SHERATON ORAN

**41/** B.Lyoussi ( 2007)

Role of ethnopharmacology in modern medicine  
Symposium International sur le médicament de Phytothérapie, Constantine, Algérie, 17-19 Mars 2007

**42/ B. Lyoussi (2007)**

Evaluation of the health risks of heavy metals biomarkers of the polluting environment **International Conference "Environment: Survival and Sustainability" 19 - 24 February 2007, Near East University, Nicosia, Cyprus**

**43. B.Lyoussi**

Role of ethnopharmacology in the development of natural products  
11<sup>th</sup> Scientific Meeting of the Egyptian Hypertension Society, Cairo, **Egypt, April 18-20, 2007**

**44. B.Lyoussi**

Herbal therapy of hypertension  
11<sup>th</sup> Scientific Meeting of the Egyptian Hypertension Society, Cairo, **Egypt, April 18-20, 2007**

**45. B.Lyoussi**

**Evidence-based therapeutic values of plants : From traditional aspects to scientific approaches International Traditional /complementary Medicine conference, Kuala Lumpur, Malaysia 17-20 July 2007**

**46. B.Lyoussi**

Medicinal plants as therapeutic sources  
Department of Pharmacology, **Jeddah, May 2007**

**47. B.Lyoussi**

Role of ethnopharmacology in modern medicine  
**THE FIRST REGIONAL SCIENTIFIC CONFERENCE ON TRADITIONAL ARABIC AND ISLAMIC MEDICINE AMMAN, August 8-10, 2007**

**48. Participation Conférence internationale : Women in engineering and technology research, 26-27 Octobre 2007, Palais de Luxembourg, Paris, France**

**49. B.Lyoussi(2007)**

Strategy for research of new pharmacologically active molecules from plants for the treatment of pathologies.  
International workshop on research for development, sustainable use and adding value of aromatic and medicinal plants, Chefchaouen, 7-9 November 2007

**50. B.Lyoussi (2007)**

Health risks of heavy metals polluting the environment : Biomarkers of metal toxicity in population studies. 5<sup>eme</sup> international conference of Egyptian Society of Biotechnology and environmental Sciences, Fez, 19-21 November 2007

**51. Badiia LYOUSSI (2008)**

Impact of environmental pollutants on human health : new insight from biomarkers  
Under the patronage of HRH Princess Sumaya Bint Al Hassan: Research, Development and innovation : Biotechnology in the Arab World Forum  
**The RDI: Biotechnology Scientific Committee. Jordan-Amman 3<sup>rd</sup> – 5<sup>th</sup> of March 2008.**

**52. B.LYOUSSI (2008)**

Métaux lourds et stress oxydatif  
2<sup>ème</sup> journées internationales de toxicologie, 3-4 Décembre **2008**, BeniMessous, Alger

- 53. Badiaa Lyoussi**, Laboratory Physiology-Pharmacology-Environmental health,  
University of Fez, Morocco.  
Evidence – Based Therapeutic Values of Plants: From Traditional Aspects to Scientific Approaches.SRO5 , Fez,  
Morocco 2008
- 54.** The 2nd Jordanian- Egyptian Biotechnology Conference . Biotechnology and Society : Prospects and  
Challenges  
November 11- 13, **2008**
- 55. B. Lyoussi ( 2009)**  
Ethnopharmacological relevance of plants mentioned in the Holy Quran and Hadith  
The First International Forum on the Quranic Garden, March 2-4 **2009**, Doha, Qatar
- 56. B.LYOUSSE ( 2009)**  
Adipocytokines and some cardiometabolic factors associated with obesity in Moroccan population  
The 13 Annual Scientific Meeting of Egyptian Hypertension Society, Cairo, 8-10 April **2009**
- 57.** The First Conference on Arab Women in Science and Technology: “ Empowerment for the Development of  
the Arab world “ 28-30 September 2009, Dubai, United Arab Emirates  
Initiative on empowerment of Arab S & T women for socio-economic Development in the Arab World
- 58.** The First Conference on Arab Women in Science and Technology: “ Empowerment for the Development of  
the Arab world “ 28-30 September 2009, Dubai, United Arab Emirates  
Panel discussion(s) and working group on supporting and empowerment of Arab S & T women
- 59.** Second International PROMETEA Conference  
The scientific and technological careers of women and men  
Private temporalities, professional temporalities; public and corporate policies  
November 26-27, 2009, Maison de l'UNESCO
- 60.** PHIME meetings (Pillar II and III meetings and the informal Pillar I meeting)  
Crete, 22-23 October 2007
- 61.** The Second Annual meeting Phime Project  
Prague on 26-28 February 2008.
- 62.** Third Annual meeting European Phime Project, 17-20 March 2009  
Lund University Hospital Seminar rooms Getingevägen 4, Lund, Sweeden
- 63.** Meeting of Experts of European Project phime WP: III.1 (2009)  
Worclaw , **Poland**, 9-10 November 2009
- 64.** Fifth Annual meeting 1-3 February **2011**, Brussels, Belgium  
B.Lyoussi : WP: Ochratoxine A, renal biomarkers
- 65. Ethnopharmacological relevance of plants used in Moroccan population : from traditional knowledge  
to scientific evidence**  
International symposium on medicinal and aromatic plants, AROMED, Lucknow , India , **21-24 February 2010**
- 66.** Impact of Environmental pollutants on health  
International conference on pollution, environmental health and sustainable development , Fez, Morocco,  
November **8-12, 2010 Morocco**

- 67.** Therapeutic values of Moroccan plants : from traditional knowledge to scientific approaches  
16<sup>th</sup> World Congress of Basic and Clinical Pharmacology, Copenhagen, Denmark , 17-23 July **2010**
- 68.** Lamchouri.F, B. Lyoussi  
Medicinal plants and cancer. International conference on pollution, environmental health and sustainable development , Fez, Morocco, November **8-12, 2010 Morocco**
- 69.** B.Lyoussi  
3ème Congrès International : La toxicologie **2010** au delà de la dimension médicale  
Impact des perturbateurs endocriniens environnementaux sur la santé  
11-1 » Novembre 2010
- 70.** B.Lyoussi  
Arab Women Scientists networking : Diagnostics and perspectives  
la REFSCIME 2010 (RENCONTRE DES FEMMES SCIENTIFIQUES MEDITERRANNEENNES) , 06 et 07  
Décembre 2010, Skikda, Algeria
- 71.** B.Lyoussi  
" Syndrome métabolique chez l'homme et chez l'animal : Effets antioxydants des plantes alimentaires et médicinales" Conférence dans le cadre du master « Mouvement, sport, santé » **13 Décembre 2010** à l'Université de Rennes 2, France
- 72.** B.Lyoussi  
Bahrain 2011 Pan Arab and European HTN Conference, 11-13February **2011**  
Adipocytokines and some cardiometabolic factors associated with obesity in Moroccan population
- 73.** B.Lyoussi  
Bahrain 2011 Pan Arab and European HTN Conference, 11-13February **2011**  
Oxydative stress and antioxydants in hypertension
- 74.** B. Lyoussi,  
Famous Traditional Doctors from Maghreb  
Denizli, Turkey, Mars 2011
- 75.** B.Lyoussi  
*'Linking ethnopharmacology with the Moroccan public'*  
**22nd PACIFIC SCIENCE CONGRESS 2011, 14-17 June 2011, Kuala Lumpur, Malaysia**
- 76.** B.Lyoussi  
The utilization of crude plants extracts to investigate pharmacological effects:Potential and pitfalls  
4 th International Chemistry conference , Nov 19-21, 2011, Riyadh, Saudi arabia
- 77.** B.Lyoussi  
Indicators of Science & Technology and innovation in the Arab world  
International Workshop on PIE approach for S & technology , Republic of Corea, 27 November – 3 December  
2011

## **ORGANIZATION OF INTERNATIONAL CONGRESS**

First International Congress on Physiopathology of Kidney , June **1994**

First International Conference on Physiopathology of Diabetes , Fez, 19 - 20 December **1997**

Second international symposium on kidney failure in relation with hypertension, Hôtel Zalagh, Fez , 17 – 18 April **1998**

First International Congress on Hypertension : From Physiopathology to Treatment 28-31 October 1999, Under the high Patronage of His Majesty Sidi Mohammed, Palais des Congrès , Fès

International Conference on cardiovascular diseases , Hôtel Tghat, Fez, 23 June **2000**

Second International Pan Arab Congress of Pharmacology, Palais des Congrès , 5-8 September **2002**

Second International Conference on Metals and the brain : from neurochemistry to neurodegeneration, Jnane Palace, 25-28 September **2002**

Journée d'étude sur la dégradation des ressources naturelles et désertification : Impacts écologiques et socio-économiques ; stratégies et moyens de lutte, 4 Avril **2003**

Symposium international sur la Phytothérapie : Approche biotechnologique Avril **2004**

Symposium Semaine de la Science Mars **2004** Avec 10 Posters de vulgarisation

International symposium on environment protection and biotechnology 15 – 17 December **2004**

- Symposium international sur la phytothérapie : Approche thérapeutique **2004** Mars 2004 à la Faculté des Sciences Dhar- Mahraz
- Symposium international sur les Substances naturelles : Valorisation et approche thérapeutique, Avril **2004** à la Faculté des Sciences Dhar- Mahraz
- Symposium international sur la Phytothérapie : Approche biotechnologique Avril **2004**
- Symposium Semaine de la Science Mars **2004** Avec 10 Posters de vulgarisation
- International symposium sur la protection de l'environnement au service du développement durable, 15 – 17 Décembre **2004**
- International symposium on Health and Sustainable development : 25-28 January, **2006**
- **Journée d'étude sur l'Agroécologie organisée avec l'AESV et l'ESIG , Juin 2006**
- **Table Ronde sous le thème : Marketing et commercialisation des phytomédicaments, November 2006**
- Second International Symposium : " Cardiovascular risk factors : *Physiopathological aspects and phytopharmacological approaches* " Fez, Novembre 23 – 25, **2006**

- **Semaine Nationale de la Science : Thématique Biotechnologie et valorisation des plantes, Avril 2006 avec 10 posters de vulgarisation**
- International symposium on Health and Sustainable Development , January 25 - 28, **2006**
- Forum of Science : 18 -23 April **2006** : Conference on natural products and ethnopharmacology with 10 posters
- International conference on biotechnology and sustainable development, Fez, November, **2007**
- Scientific research outlook international conference , SRO5 conference, October 25 – 31, 2008, Fez, Morocco
- International conference on pollution, environment and sustainable development, 10-14 November, 2011, Fez, Morocco

## **Participation in national and international Congress**

1<sup>er</sup> CONGRESS OF NEUROSCIENCE SOCIETY , **RABAT, 1984**

CONGRES DES JOURNEES SAVANTES , **Montpellier , 1985**

2<sup>ème</sup> CONGRES DE LA SOCIETE DE NEUROSCIENCES, LAAYOUNE (**1988**)

Congress of Belgium society of physiology and fundamental and clinical physiology and pharmacology, June **1989, GENT, Belgium**

59 annual meeting of society of physiology, Faculty of medicine, University of **NANCY I** , 23-25 September **1991**

Congress of society of nephrology, Hôpital Necker, **Paris, 1991**

JOINT Meeting Dutch Physiological Society and Belgium society of fundamental and clinical physiology and pharmacology, **ROTTERDAM, 1991**

Meeting de la société Belge de Physiologie et de pharmacologie fondamentales et cliniques, November **1992, Liège, Belgique**

COLLOQUE INTERNATIONAL : Mécanisme et régulation des transports dans les cellules épithéliales , 12-15 Octobre **1993, PARIS, FRANCE**

FIRST FEPS ( Federation of European physiological societies) CONGRESS, September 9-12, **1995, MAASTRICHT, THE NETHERLANDS**

CONGRESS of belgium society of experimental and clinical physiology and pharmacology , November **1996, GENT, BELGIUM**

CONGRESS of Society of Physiolog., **PRAGUE, September 1997**

INTERNATIONAL SYMPOSIUM ON NATURAL REMEDIES, APRIL, **1997, Meknès, Morocco**

MEDITERRANEAN SYMPOSIUM NUTRITION AND DIABETES, **Rabat**, October 23 - 25, **1997**

XIII th INTERNATIONAL CONGRESS OF PHARMACOLOGY, **MUNICHEN**. Allemagne  
26-31 juillet **1998**

V CONGRES DE LA SOCIETE MEDITERRANEENNE DE PHARMACOLOGIE CLINIQUE, Marrakech du  
28 au 30 octobre **1998**

ORGANIZER of the First International Congress of Hypertension : From Physiopathology to Treatment, 28-30  
October **1999**, Fez, Morocco

CONGRES PAN ARAB of PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, Cairo, **EGYPT**, 3  
– 6 December, **1999**

The Third Conference of the Pan Arab Hypertension Society, Abu Dhabi, February, 5-9, **2000**

International Conference Women in Science organized by Raset and ISESCO, 22, 24 Mars **2000**

6<sup>ème</sup> Congrès de la Société Méditerranéenne de Pharmacologie Clinique, Tunis Carthage, 8, 9, 10 Novembre **2000**

CONGRESS of Belgium society of experimental and clinical physiology and pharmacology, November **2001**, **leuven**,  
**Belgium**

INTERNATIONAL CONGRESS, Experimental Biology, **FASEB, Orlando, USA**, March 31, April 4 ( **2001**)

INTERNATIONAL CONGRESS OF EUROPEAN FEDERATION OF PHARMACOLOGY, **EPHAR 6-9 July**  
( **2001**), Lyon, France

XXXème Medical Maghrebin Congress , **7, 8, 9 Juin 2001**

FIRST MEDITERRANEAN FORUM OF KIDNEY DISEASES 30-31 January – 1<sup>st</sup> February **2003** sous le Haut  
Patronage de Sa Majesté le Roi Mohammed VI

Third national Congress of nephrology, 21-23 March, **2003**, Jnane Palace, Fès

3<sup>ème</sup> Congrès National de La Société Algérienne d'Hypertension Artérielle, ( **2003**), Alger, El Aurassi, 1 Mars

Congrès de La Société Marocaine d'Hypertension Artérielle Mai ( **2003**), Maroc

2<sup>nd</sup> International Congress on traditional medicine & Materia Medica , tehran, iran, 4 – 7 October ( **2004**) .

Premier Symposium International sur la phytothérapie ( **2004**): approche thérapeutique, 23 Mars 2004 , Faculté  
des Sciences DHM, Fès. Phytothérapie entre tradition et science

4<sup>ème</sup> Congrès National de La Société Algérienne d'Hypertension Artérielle, ( **2005**). Alger, El Aurassi, 26 –  
29 Février

**Congress of environment** , Center of Toxicology, Alger, June **2005**

**Conference on toxic risks of chemical products 16 November 2005, Minister of Health , National centre of toxicology, OMS, Alger**

**European Conference on GMOs , Tunis, September 21-25, 2005**

**Conference of Lybian Sosity of Biotechnology, 12-14 July 2005**

**Maghrebin Conference on diabetes, nutrition and metabolism, 21-24 March, 2006, Fez, Morocco**

**Conference Pan Arab of diabetologia, 3-7 May , Rabat, Morocco 2006**

**Conferences in Jordan, Syria, China, Pakistan, Koweit, France, Tunisia, Lybia, Algeria (2007)**

**Conference in Malaisia, KSA, Corea.... ( 2008 – 2011)**

## Research projects

### International

Entitled of the project	Organisms
Standardisation, valorisation et validation des substances naturelles pour les remèdes des pathologies	Projet de Coopération Wallonie-Bruxelles
Heavy metals and neurodegenerative pathologies	Minister of Health, Padova, Italy
Impact of heavy metals in susceptible population	European Project PHIME FP6
Mélatonine , facteurs environnementaux chez la truite	Projet de Coopération CNR – CNRS
Medicinal plants as therapeutic sources	Projet financé par TWAS, trieste Italy

Intitulé du Projet
Etude épidémiologique des anomalies biologiques et génétiques de l'obésité, diabète sucré, hypertension artérielle et dyslipémie dans la région de Fès – Boulemane

### *Membership in Professional Societies*

- French Society of Physiology
- Belgium Society of Physiology and fundamental and clinical pharmacology
- International society of Brain research organisation
- United Nations Educational, Scientific and Cultural organization, ICTP, Trieste, ITALY
- French society of Pharmacology



- Member of interdisciplinary group of aluminum toxicitydu , Padova, Italy
- Membre de l'Arabian Plant Specialist Group ( APSG), Riayd, KSA
- Member of Arab Science & Technology Foundation ( UAE)
- Member of Arab Tech, London, UK
- Elected president of the Arab women Scientific foundation for North Africa
- President Deputy of Arab Union of Pharmacology
- Member of executive committee of the International Union of Pharmacology ( IUPHAR)
- President NGO : «Association Espace Sciences Et Vie »
- Member of International Society of Hypertension
- Member of ArabScientists Organization , Syria, Lattakia.
- Member delegate of pole of competence Medicinal plants research
- Member of Advisory Board of SOMAPAM
- Vice president of regional society of dialysis
- Member of REPAM
- Member Advisory Board of ASTF, Sharjae, UAE

### **Review Articles (Refereed) in several journals**

- Nutrition research
- British Journal of Nutrition
- Journal of Pharmacy and Pharmacology
- Pakistan Journal of Pharmaceutical Sciences
- Egyptian Pharmaceutical J
- Phytotherapy research
- Pakistan Journal of Pharmaceutical Sciences
- Egyptian Pharmaceutical J
- Food and Chemical Toxicology
- Toxicological & Environmental Chemistry
- Pesticide Biochemistry and Physiology
- Clinical and experimental hypertenson

### **Expertise of international society for affiliation to IUPHAR**

**British Pharmaceutical society, Spanish, Cuba.....**

## **National and International Collaborators**

**Pr M. Wibo**, Department of Cardiovascular Pharmacology, **Brussels, Belgium**

**Pr H. Zafar**, Cardiovascular and Hypertension unit, Atlanta, **U.S.A.**

**Pr R. Fagard**, Division of cardiovascular diseases, Leuven, **Belgium**

**Pr R. Singer**, London Hypertension Society, London, **U.K**

**Pr J.L. Reid**, Glasgow, Scotland, **U.K.**

**Pr Silvano Mantovani**, Homeostasis, Bioterapie medicale, Verona, **Italy**

**Pr M . Lokhandwala** , Dean college of pharmacy, Houston, **Texas**

**Pr Sabah Jassim**, Zayed Complex of Traditional Medicine , **Abou Dhabi, UAE**

**Pr Froment Védrine**, Directrice générale de l'AFSSE, Paris, **France**

**Pr Alfred Bernard**, Institut de Toxicologie, UCL, Bruxelles, **Belgique**

**Pr El Jaziri .M**, Laboratoire de Biotechnologie, ULB, Bruxelles, **Belgique**

**Pr A. Gilani**, Karachi, **Pakistan**

**Pr H. ElKadi**, Sanae, **Yemen**

**Pr F . Naghibi**, Teheran, **Iran**

**Pr S. Benkhadda**, Alger, **Algeria**

**Pr W. Laroussy**, Egyptian Society of hypertension, **Cairo, Egypt**

## **International Project :**

### **◆ Project of Cooperation Wallonie-Brussels / Morocco**

Programme de travail : 2000/2001/2002

« Effets antihypertenseurs des extraits de marrubium vulgare et de foeniculum vulgare : caractérisation des alcaloïdes responsables

Responsable Marocain : Pr Badiaa Lyoussi                      Responsable Belge : Pr Maurice Wibo

### **◆ Collaboration entre le Ministère Régional de la Santé, Padova, Italie et UFR : Physiologie-Pharmacologie:**

Financement du travail : Pollution par l'Aluminium : Impacts cliniques : le cas du Centre d'Hémodialyse de l'Hôpital Ghassani : Durée : 3 ans

### **◆ Project Protars : 2002-2004**

Intitulé : Etude épidémiologique des anomalies biologiques et génétiques de l'obésité, diabète sucré, hypertension artérielle et dyslipémie ( syndrome X) dans la région de Fès - Boulemane

### **◆ Project de Coopération Wallonie-Bruxelles / Maroc :**

Programme de travail **2003-2005**

*« Validation et valorisation de compositions d'origine végétale et de plantes utilisées en médecine traditionnelle pour le traitement des pathologies cardiovasculaires et du diabète »*

Responsable Marocain : Pr Badiaa Lyoussi

Responsable Belge : Pr Maurice Wibo

◆ **Project de Coopération CNR – CNRS ( France)**

« Régulation de la synthèse de la mélatonine par la rétine des poissons »  
**2003 – 2005**

◆ **Projet de Collaboration entre le laboratoire de toxicologie environnementale UCL, Belgique et le laboratoire de physiologie-pharmacologie & santé environnementale :**

« Biomarqueurs et impacts environnementaux

Responsable Marocain : Pr Badiaa Lyoussi

Responsable Belge : Pr Alfred Bernard

◆ **Projet Européen PHIME sur les métaux lourds, toxines et pathologies associées , 2006 - 2011**

« Biomarqueurs et impacts environnementaux

Responsable Marocain : Pr Badiaa Lyoussi

Responsable Belge : Pr Alfred Bernard

**Inteuniversitary and industrial conventions**

◆ Université de Mons-Hainault, Mons Belgique since **1996**

◆ Université René DesCartes, Paris , since **1994**

◆ Université Catholique de Louvain, Belgique **2001**

◆ Institut Pasteur de Lille, France **2006**

◆ Industrial society of phytomedicaments, Homeos, Verona, Italy **2002**

◆ Society **Trading** » immatriculé au RCS Clermont sous le numéro 490 250 396 et domicilié au 89, Rue des Planchettes à Clermont–Ferrand, France **2007**

◆ **Université Paris - Diderot**

