**CURRICULUM VITAE**

**Personal Data**

Name : Abir Ghanouchi-Ben Bacha

Sex and Marital Status : Female, Married with 3 children

Nationality : Tunisian

Occupation : Associate Professor of Biochemistry

Languages : Arabic, French and English

Research Interest : - Protein chemistry

- Autism biomarkers

**Contact Information**

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**Diplomas:**

* 2013: Academic Habilitation Degree, HDR Biological Engineering (ENIS - Sfax

University)

* 2007: PhD degree in biological engineering (ENIS - Sfax University)

(Title of Thesis: Ostrich digestive lipolytic enzymes: a comparative study with mammal enzymes)

* 2003: Master degree in biological engeneering (ENIS - Sfax University)

(Title: Purification and biochemical characterization of ostrich pancreatic lipase)

* 2000: Science degree in biological sciences in (FSS - Sfax University)

**Work experience:**

* ***Teaching***
* September 2013 – till date: Associate Professor at King Saud University, Science college, Biochemistry department
* 2009 – 2013 : Assistant Professor at King Saud University, Science college, Biochemistry department
* 2007 – 2009 : Assistant Professor at faculty of sciences of Sfax
* 2003 – 2006 : Assistant at the faculty of sciences of Sfax
* ***Research***
* Researcher member at Laboratoire de Biochimie et de Génie Enzymatique des Lipases, ENIS, Tunisia, University of Sfax (2000-2011).
* Researcher at Shaikh El-Amoudi Research Chair, King Saud University, Saudi Arabia (2010-2012).
* Researcher member at Laboratory of Plant Biotechnology Applied to Crop Improvement, Faculty of Science of Sfax, University of Sfax, (2011-Present).
* Reviewer for several journals.
* Supervision of Thesis, Master Thesis and Senior Projects.
* ***Research Grants***
* Principal investigator of a Research Project **Nº RGP-VPP-070** "Biochemical and Structural Characterization of secreted phospholipases A2" financed by King Saud University, Kingdom of Saudi Arabia, (4/2011 - 4/2012).
* Co-investigator in a Research Project **Nº RGP-VPP-005** "Treatment and preventive strategies of autism disease" financed by King Saud University, Kingdom of Saudi Arabia, (4/2011 - 4/2012).
* Researcher in a Research Project “Molecular detection of viruses and bacterio in treated waste water and in well water in the governorate of Al Riyadh, Saudi Arabia” **Nº 12-ENV2528-02** supported by King Abdulaziz City for Science and Technology (KACST), (4/2014 - 4/2016).

**Teaching Activities:**

* ***Undergraduate courses***
* BCH 282: Biochemistry of nutrition
* BCH 275: Blood biochemistry
* BCH 320: General Enzymology
* BCH332: Physical biochemistry
* BCH 340: Metabolism 1
* BCH 440: Metabolism 2
* BCH 485: Training for Research principles
* BCH 498: Research 1
* BCH 499:Research 2
* ***Postgraduate courses***
* BCH 590: Selective topics
* BCH 554: Inborn errors
* BCH 540: Advanced studies in metabolism
* BCH 530: Methods in biochemistry
* ***Supervision of PhD and Master Thesis***
* Supervised 5 Masters of Biochemistry and Molecular and Cellular Biology students and 1 PhD student. Completed theses under my supervision are 4 Masters.

**Other Professional Activities**

* ***College Committees***
* Community services committee
* Strategy plan committee
* ***Department Committees***
* Community services committee
* Academic Supervision committee
* Postgraduate and scientific research commitee
* ***Reviewer of the following journals***
* Plos One
* Protein Journal
* Lipids in Health and Disease
* Journal of Advanced Research
* Applied Biochemistry and Biotechnology
* Indian Journal of Biochemistry and Biophysics

**Publications**

* 1. Abid I. and **Ben Bacha A**. Biodegradation of lipid-rich Wadi Hanifah water by free and immobilized S. aureus ALA1 lipase onto CaCO3 (Under consideration).
  2. Alasmary FAS, Alnahdi FS, **Ben Bacha A**, El-Araby AM, Moubayed N, Alafeefy AM, El-Araby ME. [New quinoxalinone inhibitors targeting secreted phospholipase A2 and α-glucosidase.](https://www.ncbi.nlm.nih.gov/pubmed/28856929) J Enzyme Inhib Med Chem. 2017 Dec;32(1):1143-1151.
  3. **Ben Bacha A**. Jemel I., Moubayed NM. and Ben Abdelmalek I. Purification and characterization of a newly serine protease inhibitor from *Rhamnus frangula* with potential for use as therapeutic drug. 3 Biotech (2017) 7:148.
  4. Khemakhem A., Frye RE., El-Ansary A., Al-Ayadhi A. and **Ben Bacha A**. Novel biomarkers of metabolic dysfunction is autism spectrum disorder: potential for biological diagnostic markers.. Metab Brain Dis. 2017.
  5. Moubayed NM. and **Ben Bacha A.** PLA2 inhibitory, antioxidant and antibacterial properties of various solvent extracts from *R. frangula* leaves Biomedical Research 2017; 28 (4): 1844-1850.
  6. El-Sayed NN, Alafeefy AM, Bakht MA, Masand VH, Aldalbahi A, Chen N, Fan C, **Ben Bacha A**. [Synthesis, Antiphospholipase A2, Antiprotease, Antibacterial Evaluation and Molecular Docking Analysis of Certain Novel Hydrazones.](https://www.ncbi.nlm.nih.gov/pubmed/27918459) Molecules. 2016 Dec 2;21(12).
  7. **Ben Bacha A,** Al-Assaf A., Moubayed NM. and Abid I. A novel high thermo-alkaline Staphylococcus aureus lipase: an ideal choice for application in detergent formulations (In press, Saudi *Journal of Biological science*). (**IF: 1.7)**
  8. **Ben Bacha A**., Moubayed NM. and Al-Assaf A. An organic solvent-stable lipase from a newly *isolated staphylococcus aureus* ALA1 strain with potential for use as an industrial biocatalyst. *Biotechnol Appl Biochem.* 2016; 63(3):378-90. (**IF: 1.3)**
  9. **Ben Bacha A**., Moubayed NM. and Abid I. Thermostable alkaline and detergent-tolerant lipase from a newly isolated thermophilic Bacillus stearothermophilus. [*Indian J Biochem Biophys*.](http://www.ncbi.nlm.nih.gov/pubmed/26118130) 2015; 52(2): 179-88. (**IF: 1.1)**
  10. El-Meligy RM., Awaad AS., Soliman GA., **Ben Bacha A**., Alafeefy AM., and Kenawy SA Prophylactic and Curative Anti-ulcerative colitis activity and the possible mechanisms of action of some desert plants. *J Enzyme Inhib Med Chem.* 2015; 30(2):250-8. (**IF: 1.7)**
  11. Alafeefy AM., Awaad AS., Abdel-Aziz HA., El-Meligy RM., Zain ME., Al-Outhman MR. and **Ben Bacha A**. Synthesis and biological evaluation of certain 3-substituted benzylideneamino-2-(4-nitrophenyl)quinazolin-4(3H)-one derivatives. *J Enzyme Inhib Med Chem.* 2015; 30(2):270-6. (**IF: 1.7)**
  12. **Ben Bacha A** Anti-Bactericidal Properties of Stingray Dasyatis pastinaca Groups V, IIA, and IB Phospholipases A2: A Comparative Study. Appl Biochem Biotechnol. 2014;174(4):1520-34.
  13. **Ben Bacha A**., Abid I., Horchani H., Mejdoub H. Enzymatic properties of stingray Dasyatis pastinaca group V, IIA and IB phospholipases A2: A comparative study. *International Journal of Biological Macromolecules* 2013; 62: 537-542 (**IF: 2.46)**
  14. El-Ansary A, Al-Daihan S, **Bacha AB**, Kotb M. Toxicity of novel nanosized formulations used in medicine. *Methods Mol Biol.* 2013;1028:47-74
  15. **Ben Bacha A.**, Al-Daihan S., Mejdoub H. Purification and characterization of [a new organic-solvent-tolerant SPLA2-IIA from](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V24-4Y7NDK0-C&_user=1062533&_coverDate=05%2F31%2F2010&_alid=1601531760&_rdoc=1&_fmt=high&_orig=search&_origin=search&_zone=rslt_list_item&_cdi=5692&_sort=d&_st=13&_docanchor=&view=c&_ct=12&_acct=C000053505&_version=1&_urlVersion=0&_userid=1062533&md5=b67995abea246029bc03b0a50f26830e&searchtype=a)  common stingray intestine. *Indian Journal of Biochemistry & Biophysics*2013; 50: 186-195(**IF: 1.14)**
  16. **Ben Bacha A.**, Al-Daihan S., Mejdoub H. Purification, characterization and antibacterial activities of of phospholipase A2 from the dromedary intestine. *International Journal of Biological Macromolecules* 2013; 57: 156– 164 (**IF: 2.46)**
  17. **Ben Bacha A**., Abid I. Secretory Phospholipase A(2) in Dromedary Tears: a Host Defense Against Staphylococci and Other Gram-Positive Bacteria. *Applied Biochemistry and Biotechnology* 2013; 169(6):1858-69 (**IF: 1.943)**
  18. El-Ansary A.K., Al-Daihan S., **Ben Bacha A.**, Shaker G.H., Al-Ayadhi L. Comparative study on the protective effect of Carnosine and Carnitine against pro-inflammatory/ pro-oxidant effects of Clindamycin and Propionic acid administrations to hamsters. *African Journal of Microbiology Research* 2013; 7(2):103-114. (**IF: 0. 5)**
  19. **Ben Bacha A**., Abid I., Horchani H. Antibacterial properties of intestinal phospholipase A2 from the common stingray *Dasyatis pastinaca*. *Applied Biochemistry and Biotechnology* 2012; 168:1277-1287. (**IF: 1.943)**
  20. El-Ansary A.K., **Ben Bacha A**., Kotb M. [Etiology of autistic features: the persisting neurotoxic effects of propionic acid](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3425128/?tool=pmcentrez). *Journal of Neuroinflammation* 2012; 9: 74. (**IF: 3.827)**
  21. Hammami I.,  Jaouadi B.,  **Ben Bacha** **A**.,  Rebai A.,  Bejar S.,  Nesme X., Rhouma A. Bacillus subtilisbacteriocin Bac 14B with a broad inhibitory spectrum: Purification, amino acid sequence analysis, and physicochemical characterization. *Biotechnology and Bioprocess Engineering* 2012; 17 (1): 41-49. (**IF: 1.278)**
  22. [Al-Ayadhi L.Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Al-Ayadhi%20LY%22%5BAuthor%5D)., **Ben Bacha A**., [Kotb M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kotb%20M%22%5BAuthor%5D)., [El-Ansary A.K](http://www.ncbi.nlm.nih.gov/pubmed?term=%22El-Ansary%20AK%22%5BAuthor%5D). A novel study on amyloid beta peptide 40, 42 and 40/42 ratio in Saudi autistics. [*Behavioral and Brain Function*](http://www.ncbi.nlm.nih.gov/pubmed/22239861) 2012, 8(1): 4. **(IF: 2.127)**
  23. **Ben Bacha A**., Mejdoub H. [Purification and biochemical characterization of an organic-solvent-tolerant thioredoxin from dromedary pancreas.](http://www.ncbi.nlm.nih.gov/pubmed/22081312) *Protein Journal* 2012; 31(1): 1-7. **(IF: 1.038)**
  24. El-Ansary A.K., **Ben Bacha A**., Al-Ayadhi LY. [Proinflammatory and proapoptotic markers in relation to mono and di-cations in plasma of autistic patients from Saudi Arabia.](http://www.ncbi.nlm.nih.gov/pubmed/21999440) J Neuroinflammation. 2011 Oct 15;8:142. (**IF: 3.827)**
  25. **Ben Bacha A**.,Mejdoub H. Proteolytic cleavage of stingray phospholipase A2: Isolation and biochemical characterization of an active N-terminal form. [*Lipids in Health and Disease*](http://www.ncbi.nlm.nih.gov/pubmed?term=Proteolytic%20cleavage%20of%20stingray%20phospholipase%20A2%3A%20Isolation%20and%20biochemical%20characterization%20of%20an%20active%20N-terminal%20form.%20) 2011; 10: 124. **(IF: 2.170)**
  26. El-Ansary A.K., **Ben Bacha A**., Al- Ayadhi L.Y.Relationship between chronic lead toxicity and plasma neurotransmitters in autistic patients from Saudi Arabia. [Clinical Biochemistry](http://www.ncbi.nlm.nih.gov/pubmed/21763301) 2011; 44(13): 1116-20. **(IF: 2.067)**
  27. El-Ansary A.K., **Ben Bacha A**., Al- Ayadhi L.Y. Impaired plasma phospholipids and relative amounts of essential polyunsaturated fatty acids in autistic patients from Saudi Arabia. *Lipids Health Disease*[2011; 10 (1): 63](http://lib.bioinfo.pl/pmid/journal/Lipids%20Health%20Dis)  **(IF: 2.170)**
  28. El-Ansary A.K., **Ben Bacha A**., Al- Ayadhi L.Y. Plasma fatty acids as diagnostic markers in Saudi autistics. *Lipids in Health and Disease*[2011; 10 (1): 62](http://lib.bioinfo.pl/pmid/journal/Lipids%20Health%20Dis)  **(IF: 2.170)**
  29. **Ben Bacha A**., Karray A., Daoud L., Bouchaala E., Bou Ali M., Gargouri Y., Ben Ali Y. Biochemical properties of pancreatic colipase from the common stingray *Dasyatis pastinaca***.** *Lipids in Health and Disease*2011; 10: 69. **(IF: 2.170)**
  30. **Ben Bacha A**., Karray A., Bouchaala E., Gargouri Y., Ben Ali Y [Purification and biochemical characterization of pancreatic phospholipase A2 from the common stingray Dasyatis pastinaca.](http://www.ncbi.nlm.nih.gov/pubmed/21329523) *Lipids in Health and Disease* 2011; 10(1): 32**. (IF: 2.170)**
  31. Damak N., Hadj-Taieb N., Bonnin E., **Ben Bacha A**., Gargouri A. [Purification and biochemical characterization of a novel thermoactive fungal pectate lyase from Penicillium occitanis](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6THB-51WN8YC-2&_user=1399696&_coverDate=01%2F07%2F2011&_alid=1647660867&_rdoc=8&_fmt=high&_orig=search&_origin=search&_zone=rslt_list_item&_cdi=5278&_sort=r&_st=13&_docanchor=&view=c&_ct=8&_acct=C000052565&_version=1&_urlVersion=0&_userid=1399696&md5=c56493cd3f7b2f20fa957cfa8a97dc24&searchtype=a).  *Process Biochemistry* 2011; 46 (4): 888-893. **(IF: 2.627)**
  32. Cherif S., **Ben Bacha A**., Ben Ali Y., Horchani H., Rekik W., Gargouri.Y. Crab digestive phospholipase: a new invertebrate member. *Bioresource Technology*2010; 101 (1): 366-71. **(IF: 4.980)**
  33. Zarai Z., **Ben Bacha A**., Horchani H., Bezzine S., Gargouri Y., Mejdoub H. A novel marine hepatopancreatic phospholipase A2 with digestive and toxic activities. *Archives of Biochemistry and Biophysics* 2010; 494(2): 121-129. **(IF: 2.935)**
  34. Miled N., Fikha F., **Ben Bacha A**.,Mejdoub H. Gargouri Y. Structural homologies, importance for catalysis and lipid binding of the N-terminal Peptide of a fungal and a pancreatic lipase. *Protein Peptide Letters* 2010; 17(2): 254-259. **(IF:1.942)**
  35. Blibech M., Ghorbel R.E., Fakhfakh I., Ntarima P., Piens K., **Ben Bacha A**., Ellouz Chaabouni S. Purification and characterization of a low molecular weight of beta-mannanase from *Penicillium occitanis* Pol6. *Applied Biochemistry and Biotechnology* 2010; 160(4):1227-40. (**IF: 1.943)**
  36. Zouari N., Elgharb F., Fakhfakh N., **Ben Bacha A**., Gargouri Y., Miled N. Effect of dietary vitamin E supplementation on lipid and colour stability of chicken thigh meat. *African Journal of Biotechnology* 2010; 9(15): 2276-2283. **(IF:0.561 )**

## Karray A., Frikha F., Ben Bacha A., Ben Ali Y., Gargouri Y., Bezzine S. Purification, biochemical and structural characterization of turkey pancreatic phospholipase A2. FEBS Journal 2009; 276: 4545-4554. (IF: 3.790)

* 1. **Ben Bacha A**., Gargouri Y., Bezzine S., Mosbah H., Mejdoub H. A bird pancreatic phospholipase A2: Purification and biochemical characterization. *Journal of Chromatography B* 2007; 857(1):108-114. **(IF: 2.888)**
  2. **Ben Bacha A**., Fendri A., Gargouri Y., Mejdoub H., Miled N. Proteolytic cleavage of ostrich and turkey pancreatic lipases: Production of a fully active N-terminal domain. *Pancreas*2007; 35: 55-61. **(IF: 2.386)**
  3. Fendri A., Frikha F., Miled N., **Ben Bacha** **A**., Gargouri Y. Modulating the activity of avian pancreatic lipases by the alkyl chain reacting with an accessible Sulfhydryl group. *Biochemical and Biophysical Research Communications*360 (2007) 765-771. **(IF: 2.484)**
  4. **Ben Bacha A**., Gargouri Y., Bezzine S., Mejdoub H. Purification and biochemical characterization of phospholipase A2 from dromedary pancreas. *Biochimica Biophysica Acta – General Subjects* 2006; 1760: 1202-1209. **(IF: 5.000 )**
  5. **Ben Bacha A**., Frikha F., Djemal I., Fendri A., Miled N., Gargouri Y., Mejdoub H. Biochemical and structural comparative study between bird and mammal pancreatic colipases. **Journal of Lipid Research 2006; 47: 2701-2711**. **(IF: 5.559 )**
  6. Fendri A., Frikha F., Mosbah H., Miled N., Zouari N., **Ben** **Bacha A**., Sayari A., Mejdoub H., Gargouri Y. Biochemical characterization, cloning, and molecular modelling of chicken pancreatic lipase. *Archives of Biochemistry and Biophysics* 2006; 451: 149-159. **(IF: 2.935)**
  7. **Ben BachaA**., Gargouri Y., Ben Ali Y., Miled N., Reinbolt J., Mejdoub H. Purification and biochemical characterization of ostrich pancreatic lipase. *Enzyme and Microbial Technology* 2005; 37: 309-317. **(IF: 2.36)**

#### Papers and Presentations at Conferences and Seminars:

* + - 1. Asma M. Khemakhem, Afaf El-Ansary, Richard Eugene Fryeg, Laila Al-Ayadhi, **Abir Ben Bacha**. Relative levels of, potassium, sodium, lactate, pyruvate, and lactate dehydrogenase as biomarkers in plasma of Saudi autistic patients compared to control (Oral communication). 28th annual forum of biological sciences and biotechnology organized by the Tunisian association of biological sciences. 21-24 March 2017, Hammamet - Tunisia.
      2. Asma M. Khemakhem, Afaf El-Ansary, Richard Eugene Fryeg, Laila Al-Ayadhi, **Abir Ben Bacha**. Screening of selected biomarkers related to mitochondrial dysfunction and associated with the severity of autism measured by Childhood Autism Rating Scale (CARS) (Oral communication).The third edition of the international conference of Engineering Sciences for Biology and Medicine (ESBM) organized by Tunisian Society of Academic Research (ATCU). 04-07 May, Sfax-Tunisia
      3. Asma M. Khemakhem, Afaf El-Ansary, Richard Eugene Fryeg, Laila Al-Ayadhi, **Abir Ben Bacha**. Relative levels of selected biomarkers related to oxidative stress, apoptosis, and mitochondrial dysfunction as biomarkers in plasma of Saudi autistic patients compared to control (Poster). Vth International Congress of Biotechnology and Valorization of Bio-resources organized by The Tunisian Association of Biotechnology and Valorization of Bio-Resources (AT-BVBR). 25 March 2017, Tabarka – Tunisia.
      4. El-Ansary A.K., **Ben Bacha A**., Kotb M. [Etiology of autistic features: the persisting neurotoxic effects of propionic acid](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3425128/?tool=pmcentrez).*Toxicology Summit & Expo*, November San Antonio Airport, USA 26-28, 2012.
      5. Jrad M, Kadri-Ben Chobba, **Ben bacha A**., Gharsallah N. Characterization of microorganisms isolated from the leaves of date palm healthy and sick producers of bioactive molecules. *The Second African Congress on Biology and Health; Biogical and Pharmacological Activities of Natural Substances*, Sétif-Algérie 10-12 Novembre 2012.
      6. Jrad M, Kadri-Ben Chobba, **Ben bacha A**., Gharsallah N. Caractérisation des microorganismes endophytiques à partir des feuilles des palmiers sains et malades producteurs des biomolécules. *Association Tunisienne des Sciences Biologiques 23éme forum*, Hammamet-Tunisie 21 - 24 Mars 2012.
      7. [El-Ansary A.K](http://www.ncbi.nlm.nih.gov/pubmed?term=%22El-Ansary%20AK%22%5BAuthor%5D)., **Ben Bacha A**., [Al-Ayadhi L.Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Al-Ayadhi%20LY%22%5BAuthor%5D). Relationship between chronic lead toxicity and plasma neurotransmitters in autistic patients from Saudi Arabia. *Ninth World Congress on Brain Injury*, Edinburgh, Scotland March 21-25, 2012.
      8. **Ben Bacha A**.,Mejdoub H. Purification and biochemical characterization of pancreatic phospholipase A2 from the common stingray Dasyatis pastinaca. *International Symposium of Biotechnology*, Sousse-Tunisia, 19-22 December 2011.
      9. [Al-Ayadhi L.Y](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Al-Ayadhi%20LY%22%5BAuthor%5D)., **Ben Bacha A**., [Kotb M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Kotb%20M%22%5BAuthor%5D)., [El-Ansary A.K](http://www.ncbi.nlm.nih.gov/pubmed?term=%22El-Ansary%20AK%22%5BAuthor%5D). A novel study on amyloid beta peptide 40, 42 and 40/42 ratio in Saudi autistics. [*16th*](http://www.ncbi.nlm.nih.gov/pubmed/22239861) *International Conference of the APPAC*. Greece May 17-20, 2011.
      10. Zarai Z., **Ben Bacha A**.,Gargouri Y., Mejdoub H.A novel marine hepatopancreatic phospholipase A2: Purification and characterization.*3rd Mediterranean Congress of Biotechnology*, Hammamet-Tunisia, 15-18 December 2008.
      11. Karray A., **Ben Bacha A**.,Gargouri Y., Bezzine S. Purification, biochemical and structural characterization of turkey pancreatic phospholipase A2. *3rd Mediterranean Congress of Biotechnology*, Hammamet-Tunisia, 15-18 December 2008.
      12. **Ben Bacha A**., [Gargouri Y](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Gargouri%20Y%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus)., [Mejdoub H](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Mejdoub%20H%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus)., [Miled N](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Miled%20N%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus). Proteolytic cleavage of ostrich and turkey pancreatic lipases: production of an active N-terminal domain. *1st International Symposium on Biotechnology.* **Sfax-Tunisia, 4-8 May 2008.**
      13. **Ben Bacha A**., Frikha F., Miled N., Gargouri Y. Mejdoub H. Biochemical and structural comparative study between bird and mammal pancreatic colipases. *1st International Congress of Biochemistry of macromolecules and genetics.* Gafsa-Tunisia, 12 - 16 April 2007.
      14. **Ben Bacha A**., Gargouri Y., Mejdoub H. Purification and biochemical characterization of phospholipase A2 from ostrich pancreas. *18th Biology days of the Sciences Biology Tunisian Society*,Hammamet**-** Tunisia 25-29 March 2007.
      15. Miled N., Frikha F., Sayari A., **Ben Bacha A**., Gargouri Y. Structural importance of N-terminal regions of lipases. *1st Mediterranean Congress of Biotechnology*, Hammammet-Tunisia, 25-29 March 2006.
      16. **Ben Bacha A**., Djemel I, Gargouri Y., Mejdoub H. Purification and biochemical characterization of dromedary pancreatic colipase. *1st Mediterranean Congress of Biotechnology*, Hammammet-Tunisia, 25-29 March 2006.
      17. **Ben Bacha A**., Gargouri Y., Bezzine S., Mejdoub H. Purification et caractérisation biochimique de la phospholipase A2 pancréatique de dromadaire. *17ème journées de l’Association Tunisienne des Sciences Biologiques, et 1er Congrès Maghrébin de Biologie et de Biotechnologie.* Hammammet-Tunisie, 20-23 Mars 2006.
      18. **Ben Bacha A**., Gargouri Y., Mejdoub H. Purification et caractérisation biochimique de la lipase pancréatique d’autruche. *16ème journée de l’Association Tunisienne des Sciences Biologiques*, Hammammet-Tunisie, 19-23 Mars 2005.

#### Workshops

1. “Classroom management”(King Saud University - Saudi Arabia, Riyadh - May 2013).
2. “Effective Teaching’’ (King Saud University - Saudi Arabia, Riyadh - May 2011).
3. ‘‘Active Learning in Large Classes’’ (King Saud University - Saudi Arabia, Riyadh - September 2010).
4. ‘‘Academic Guidance for Students’’ (King Saud University - Saudi Arabia, Riyadh - September 2010).
5. ‘‘Effective Teaching Skills’’ (King Saud University - Saudi Arabia, Riyadh - September 2010).