

General Information

Name	BENOSMANE
Maiden name	
First name	Sana
Date of Birth	03 June 1989
Place of Birth	Annaba, Algeria
Nationality	Algerian
Mailing Address	Annaba Algeria
Phone/ Mobile	
Electronic Mail	Sana.benosmane1@hotmail.com

Studies

December 2011- July 2015	Graduate Studies (PhD) - Department of Biology- Faculty of Sciences- Badji Mokhtar University of Annaba PhD in Biology Option : Toxicology Theme realisation : Effect of the extract of the plant <i>Quercus agrifolia</i> on the growth of the organism <i>Brachycauda pinnipes</i>
September 2009 – June 2011	Graduate Studies (Master) - Department of Biology- Faculty of Sciences – Badji Mokhtar University of Annaba Master :in Biology Option : Toxicology Topic: Study of the effect of the extract of the plant <i>Benzoate on the growth of the organism <i>Brachycauda pinnipes</i></i> Diploma no : 01/2011
September 2006 – June 2009	Graduate Studies (Licence) - Department of Biology- Faculty of Sciences – Badji Mokhtar University of Annaba Licence L3 Option : Toxicology Diploma no : 01/2009

6 International Publications

February 2024	International Journal of Sustainable Development Phytochemical analysis and antihemolytic activity of the aerial parts of <i>Quercus agrifolia</i> Hayette Ayeche, Sana Benosmane, Oussama Khouas https://www.scribd.com/document/788111111/Phytochemical-analysis-and-antihemolytic-activity-of-the-aerial-parts-of-Quercus-agrifolia
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October 2023	Analele Universității din Oradea, Fascicula Biologie, Tom. XXX, Issue: 2, pp. 143-149, 2023. Toxicological effects of Chlorpyrifos Ethyl on the freshwater ciliate <i>Paramecium tetraurelia</i>. Sana BENOSMANE, Amel ALAYAT, Hayat AYAD, Rym MERABET, Houria BERREBAH Print-ISSN:1224-5119. CD-ISSN:1842-6433 e-ISSN: 1844-7589 https://www.bioresearch.ro/2023-2.html
April 2022	Ukrainian Journal of Ecology, 12(4), p.28-35, 2022. Role of silicon foliar application in promoting salt stress tolerance and enhanced antioxidant capacity of <i>Hordeum vulgare</i> L. (cv. saida) A. Alayat, Z. Boumedris, S. Benosmane, A. Atailia, O. Moumeni, N. Hacini ISSN: 2520-2138 DOI: 10.15421/2022_362 https://www.ujecology.com/archive/uje-volume-12-issue-4-year-2022.html
April 2022	Journal of Faculty of Food Engineering, Ștefan cel Mare University of Suceava, Romania: Food and Environment Safety Journal, Vol. XXI 21, No. 1, p. 5-15, 2022. Silicon enhances the salt tolerance of two wheat cultivars trough decreasing oxidative damage. Amel ALAYAT, Zineddine BOUMEDRIS, Sana BENOSMANE, Amira ATAILIA, Nesrine HACINI. ISSN 2559 - 6381. OID: https://doi.org/10.4316/fens.2022.001 Available at: http://fens.usv.ro/index.php/FENS/article/view/865
September 2020	World Journal of Advanced Research and Reviews, Vol. 7, No. 3, p. 133-141 , 2020. Effects of sublethal exposure of fungal xenoestrogen on oxidative stress and hepatic histology of tadpoles <i>Rana saharica</i>.” Benosmane Sana, Alayat Amel, Boumedris Zine Eddine, Moumeni Ouissem, Berrebah Houria and Djebbar Mohammed Reda. Article DOI: 10.30574/wjarr.2020.7.3.0300 eISSN: 2581-9615 https://doi.org/10.30574/wjarr.2020.7.3.0300
July- August 2016	International Journal of Pharmaceutical Sciences Review and Research, Vol. 39, Issue 2, July-August 2016, Article number 18, Pages 100-103 Effect of a new fungicide combining the fenamidone and fosetyl aluminum on growth, respiratory metabolism and antioxidant enzyme activity of <i>Paramecium</i> sp. Benamara, M., Djebbar, M.R., Nasri, H., Benlaifa, M., Benosmane, S., Berrebah, H. ISSN 0976- 044X https://globalresearchonline.net/journalcontents/v39-2/18.pdf
February 2016	Research Journal of Environmental Toxicology, Vol. 10, No. 2, p. 115- 125, 2016. Effects of Cycloxydim on Population Growth, Phagocytosis,

	Contractile Vacuole Activity and Antioxidant Responses in the Freshwater Ciliate (<i>Paramecium tetraurelia</i>). Ouissem Moumeni, Houria Berrebbah, Zoubir Azzouz, Rima Amamra, Hadjer Otmani, Amel Alayat, <u>Sana Benosmane</u> and Mohamed Reda Djebbar. DOI: 10.3923/rjet.2016.115.125 ISSN 1819-3420 URL: https://scialert.net/abstract/?doi=rjet.2016.115.125
Mar 2015	Journal of Biodiversity and Environmental Sciences (JBES) Vol. 6, No. 3, pp. 307-314, 2015. Toxicological impact of a mimetic estrogen specie: mancozeb on a tadpoles of the green frog (<i>Rana saharica</i>). Benosmane Sana, Djebbar Mohammed Reda, Berrebbah Houria, Alayat Amel, Benamara Marwa, Zouaghi Mohamed Fateh, Amamra Rima.
April 2015	Journal of Biodiversity and Environmental Sciences (JBES) Vol. 6, No. 4, pp. 115-123, 2015 Lipid peroxidation, oxidative stress and respiratory metabolism alteration in the freshwater ciliate <i>Paramecium tetraurelia</i> exposed to cypermethrin, a pyrethroid insecticide. Rima Amamra, Mohamed Réda Djebbar, Ouissem Moumeni, Zoubi Azzouz, Ibtissem Zeriri, Amira Atailia, Sana Benosmane, Houria Berrebbah.
May 2014	Journal of New Technology and Materials (JNTM) Vol. 04, No. 01 (2014)39-40 Synthesis, characterization and cytotoxic effect of ZnO nanoparticles obtained by mechanical alloying. S. Benchelia, S. Benosmane, D E. Mekki and N. Tabet.
May 2014	Annual Research & Review in Biology 4(24): 3835-3847, 2014 Effects of Cadmium on Water Content, Soluble Protein, Proline Changes and Some Antioxidant Enzymes in Wheat (<i>Triticum durum desf.</i>) Leaves Amel Alayat, Lynda Souiki, Nedjoud Grara, Mohamed Reda Djebbar, Zine Eddine Boumedris, Sana Benosmane, Rima Amamra and Houria Berrebbah.
17 International and national communications	
2024	1st International One Health Seminar IOHS-2024. Annaba. Algeria. Subchronic Exposure to Triclosan: Impacts on Oxidative Stress and Reproductive Health in Female Rats. Rym MERABET (Sana Benosmane, Asma Braik, Hadjer Kafi, Louiza Hambli, Chayma Bouchareb, Djamel-Eddine Benouareth). www.iohs.cre.dz

27-28 November 2024	1st International One Health Seminar IOHS-2024. Annaba. Algeria. Impact toxicologique d'un biocide "le Triclosan" sur un bio-indicateur de pollution l'escargot (<i>Helix aspersa</i>). BENOSMANE Sana (Merabet Rym, Alayat Amel, Boumedris Zine Eddine, Bouaoune Imane, Chergui Fadia, Berrebbah Houria). www.iohs.cre.dz
11 December 2024	Harmony in Flux: Exploring Interdisciplinary Perspectives on Nature, Environment, and Environmental Changes. Guelma. Algeria. Evaluation of the Toxicity of a Biocide (Triclosan) on Bioindicator Organisms of Pollution - the Snail "<i>Helix aspersa</i>" BENOSMANE Sana. https://fl.univ-guelma.dz/fr/content/d%C3%A9partement-des-lettres-et-langue-anglaise
17-18 December 2023	First International Seminar on Applied Research in Food Sciences, Health and Environment. Annaba - Algeria Improvement of salt stress tolerance by foliar application of silicon in barley plants of the variety Saida. ALAYAT Amel, BENOSMANE Sana, BOUMEDRIS Zineddine, SERRADJ Warda, ATAILIA Amira, MOUMENI Ouissem, AMAMRA Rima. https://cs.univ-annaba.dz/event/1/
25-26 October 2023	6th National Conference of the Laboratory of Molecular Toxicology, Biotechnology, Toxicology and Health, University MSB-Jijel, Algeria. Contribution to the toxicity study of a food additive E440 on yeast «<i>Saccharmyces cerevisiae</i>». Benosmane Sana, Alayat Amel, Ayad Hayat, Merabet Rym, Berrebbah Houria.
1- 3 Sep 2020	II. International Agricultural, Biological & Life Science Conference (AGBIOL 2020). Edirne, Turkey Estimation of antioxidant responses and endocrine disruption in a freshwater species exposed to a mimetic estrogen species MOS of fungal origin. Benosmane Sana, Alayat Amel, Boumedris Zine Eddine and Djebbar M.Redha.
26- 28 Sep 2019	International Biodiversity & Ecology Sciences Symposium (BioEco2019) Istanbul- Turkey. Contribution to the study of the toxicity of a pesticide (Chlorpyrifos-ethyl) on freshwater ciliated protists "<i>Pramecium sp.</i>" Sana Benosmane, Amel Alayat, Zine Eddine Boumedris, Djebbar Mohamed Reda.
26- 28 Sep 2019	International Biodiversity & Ecology Sciences Symposium (BioEco2019) Istanbul- Turkey. Responses of antioxidants in <i>Flavoparmelia caperata</i> (L.) Hale to

	the atmospheric pollution air at two urban and semi-urban areas in the region of Annaba (East of Algeria). Boumedris Zineddine, Serradj Ali Ahmed Monia, Alayat Amel, Benosmane Sana, Djebbar Mohamed Reda.
26- 28 Sep 2019	International Biodiversity & Ecology Sciences Symposium (BioEco2019) Istanbul- Turkey. Impact of air pollution on Lichenic diversity in the Annaba region (eastern Algeria). Boumedris Zineddine, Serradj Ali Ahmed Monia, Alayat Amel, Benosmane Sana, Djebbar Mohamed Reda.
26- 28 Sep 2019	International Biodiversity & Ecology Sciences Symposium (BioEco2019) Istanbul- Turkey. Responses of antioxidant defense systems at differential chromium tolerance of wheat (<i>Triticum aestivum</i> L.) Alayat Amel, Souiki Lynda, Boumedris Zineddine, Djebbar Mohammed Reda, Benosmane Sana, Moumeni Ouissem, Amamra Rima.
26- 28 Sep 2019	International Biodiversity & Ecology Sciences Symposium (BioEco2019) Istanbul- Turkey. Cadmium stress induced changes in antioxidant enzymes, lipid peroxidation and hydrogen peroxide contents in barley seedlings. Alayat Amel, Souiki Lynda, Boumedris Zineddine, Djebbar Mohammed Reda, Benosmane Sana, Moumeni Ouissem, Amamra Rima.
20-23 March 2019	Tunisian Association of Biotechnology and Valorization of Bio-Resources (AT-BVBR) Oxidative stress, impaired respiratory metabolism and ROS production in an amphibian species "<i>Rana saharica</i>." exposed to a xenoestrogen. Benosmane Sana, Alayat Amel, Boumedris Zine Eddine, Djebbar Mohamed Reda, Berrebbah Houria.
20-23 March 2019	Tunisian Association of Biotechnology and Valorization of Bio-Resources (AT-BVBR) Evaluation of the effect of Slicium as a means of mitigating metallic stress applied to wheat plants. Alayat Boumedris Amel, Souiki Lynda, Boumedris Zine Eddine, Benosmane Sana, Moumeni Ouissem, Amamra Rima, Djebbar Mohamed Reda.
20-23 March 2019	Tunisian Association of Biotechnology and Valorization of Bio-Resources (AT-BVBR) Estimation of antioxidant responses in <i>Flavoparmelia perlata</i> (L.) Hale exposed to urban air pollution in the Annaba region (eastern Algeria). Boumedris Zine Eddine, Serradj Ali Ahmed Mounia, Alayat Boumedris Amel, Benosmane Sana, Moumeni Ouissem, Djebbar Mohamed Reda.

18-19 Feb 2019	International Seminar Environment and Toxicology "sinentox'2019" Constantine- Algeria. Evaluation of oxidative damage in lichen <i>Flavoparmelia perlata</i> (L.)Hale subjected to urban air pollution in the Annaba region (eastern Algeria). Boumedris Zine Eddine, Serradj Ali Ahmed Mounia, Alayat Boumedris Amel, Benosmane Sana and Djebbar Mohamed Reda.
18-19 Feb 2019	International Seminar Environment and Toxicology "sinentox'2019" Constantine- Algeria. Application of Silicon as a tool for remediation and attenuation of oxidative damage in durum wheat plants subjected to metal stress. Alayat Boumedris Amel, Souiki Lynda, Boumedris Zine Eddine, Benosmane Sana , Moumeni Ouissem, Amamra Rima, Djebbar Mohamed Reda.
09-11 Oct 2015	3RD INTERNATIONAL CONGRESS OF PLANT DIVERSITY. Marrakech . Morocco. <u>Titled:</u> Comparative study of antioxidant responses to Cadmium-induced oxidative stress in both durum wheat genotypes. Benosmane Sana , Alayat Amel, Benamara Marwa , Moumni Ouissem, Amamra Ryma and Djebbar Mohammed-Réda.
21-23 March 2015	5th ATT Scientific Days 'Toxic Process and Health Safety'. Monastir, Tunisia. <u>Titled:</u> Application of an analysis test of reactive oxygen metabolites on tadpoles of an amphibian <i>Rana saharica</i> .exposed to a xenoestrogen of fungal origin. Benosmane Sana , Alayat Amel, Benamara Marwa , Moumni Ouissem and Djebbar Mohammed-Réda.
21-24 Dec 2014	Society of Natural Sciences of Tunisia XXIV National Biology Days of the SSNT Hammamet, Tunisia. <u>Titled:</u> Toxicological effect of a mimetic-estrogen and respiratory metabolism on green frog tadpoles: « <i>Rana Saharica</i> .» Benosmane Sana , Alayat Amel, Benamara Marwa , Moumni Ouissem, Amamra Ryma, Otmani Hadjer and Djebbar Mohammed-Réda.
21- 23 Oct 2014	Water Resources & Climate Change in the Mediterranean Region 3rd International Water–Climate Symposium 2014: VIEWS CROISES NORTH – SOUTH Hammamet, Tunisia

	<u>Titled:</u> Effect of a xenoestrogen on an amphibian bio-indicator of pollution: «<i>Rana Saharica</i>.» Benosmane Sana, Alayat Amel, Benamara Marwa and Djebbar Mohammed-Réda.
08- 13 Sep 2014	COCONET SUMMER SOURCE "GES & mPAs": Good Environnemental Status and Marine Protected Areas in the Mediterranean and Black Seas. (GES 8-11, Workshop 12) University Mohammed V- Institut Scientifique- Rabat- Morocco.
11-13 April 2014	IX International Congress: Quality of products and the environment, Treatment and recovery of waste, Effects on human health. El Mahdia-Tunisia. <u>Entitled:</u> Impact of an estrogen mimetic: Mancozeb on a ciliated protist of fresh water «<i>Paramecium sp.</i>» Benosmane Sana, Benamara Marwa, Berrebbah Houria and Djebbar Mohammed-Réda.
05-07 March 2013	1st Conference on Biotechnology and Bio-Resource Development (BVBR) Tabarka-Tunisia. <u>Entitled:</u> Toxicity of an insecticide of the avermectin family on «<i>Paramecium sp.</i>» Benosmane Sana, Bouaricha Houda, Zouaghi Med Fateh, Berrebbah Houria and Djebbar Mohammed-Réda

Training, Internships and teaching expenses, Senior positions	
February 2024 to date	Lecturer Class A At the Faculty of Natural and Life Sciences and Earth and Universe Sciences, University 08 May 1945 Guelma.
September 2023 to date	Member of the scientific committee of the Department of Natural and Life Sciences, Faculty of Natural and Life Sciences and Earth and Universe Sciences, University 8 May 1945 Guelma.
May 2021 to date	Responsible for the professional license «Agro-food processes» Faculty of Natural and Life Sciences and Earth and Universe Sciences, University 8 May 1945 Guelma.
September 2018 to date	Lecturer Class B (Holder) At the Faculty of Natural and Life Sciences and Earth and Universe

	Sciences, University 08 May 1945 Guelma.
September 2017 August 2018	Lecturer Class B (Holder) at the Institute of Biological Sciences, Faculty of Exact Sciences and Natural and Life Sciences, Ben Mhidi Oum El Bouaghi University.
September 2016 September 2017	Master Assistant class B (trainee) at the Institute of Biological Sciences, Faculty of Exact Sciences and Natural and Life Sciences, Larbi Ben Mhidi Oum El Bouaghi University.
February 2016 - June 2016	Associate teacher: TD and TP in the TCSNV department Master 1 course: specialty: modeling and risk assessment in environment and health. Module: Oxidative stress and pathologies
September 2014- May 2015	Co-supervision of a Maser memoir: Nouri Amin <u>Entitled:</u> Evaluation of the physico-chemical quality of water consumed in Algeria: mineral water, spring water and tap water.
2012- 2015	TP teaching within the Department of Biology at UBMA. Bachelor, Master I, Master II , Speciality: Xenobiotics and toxicological risks.
September 2012- June 2013	Co-supervision of a Maser memoir: Benamara Marwa <u>Entitled:</u> Impact of an estrogen mimetic: Mancozeb on a ciliated protist of fresh water « <i>Paramecium sp.</i> »
March 2011- June 2011	Practical internship (during the completion of the Master's thesis) Cell Toxicology Laboratory – Badji Mokhtar University – Annaba
Dec 2010	Practicum Laboratory of analysis of the health center (Central laboratory of the public health facility of proximity) Annaba
April 2009	Practicum Cell Toxicology Department – university hospital center– Ibn Sina Hospital – Annaba
Jan 2009	Practicum Cell Toxicology Department – university hospital center – Ibn Sina Hospital – Annaba

Computer skills	
Operating systems	Microsoft Windows.
March 2011 – July 2011	Miscellaneous operating system and software – Microsoft Windows XP, Word, Excel, Power Point. Ets Ecole TMS – Third Millennium School
Miscellaneous Software	Word, Excel, PowerPoint, Minitab.
Language Skills	
Arabic	Read: Very Good Written: Well Spoke well
French	Read: Very Good Written well Spoke well
English	Read: Very Good Written well Spoken: Fair
Sep 2007 – June 2009	Foreign language – English Level I and II. Intensive Language Centre – Badji Mokhtar University – Annaba-