



PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH
HASSIBA BENBOUALI UNIVERSITY OF CHLEF
FACULTY OF NATURE AND LIFE SCIENCES

IN COLLABORATION WITH

THE NATURAL BIORESOURCES LABORATORY
& THE CROP PRODUCTION AND PROTECTION IN CHLEF REGION LABORATORY
& THE FOREST CONSERVATION OF CHLEF



CERTIFICATE OF ATTENDANCE



Awarded to

Dr. Nabila ADOUI

University Mohamed BOUDIAF of M'sila

In recognition of attending the

1ST INTERNATIONAL SEMINAR ON DIVERSITY, VALORIZATION & CONSERVATION OF PHYTODIVERSITY (1st ISDVCP'25)

Held at Hassiba Benbouali University of Chlef, from May 20th-22nd, 2025,

with the theme of Oral communication:

“ Phytochemical valorization of a medicinal plant used in traditional Algerian medicine by HS-SPME-GC-MS and HPLC-MS methods. ”

Co-Author(s): Hamdi BENDIF

President of Seminar

Dr. Fatima SENOUCI



President of the Scientific Committee

Pr. Adda ABABOU



**1ST INTERNATIONAL SEMINAR
ON DIVERSITY, VALORIZATION
& CONSERVATION OF PHYTODIVERSITY**





1ST INTERNATIONAL SEMINAR ON DIVERSITY, VALORIZATION & CONSERVATION OF PHYTODIVERSITY

Natural and Life Sciences Department, laboratory of biodiversity and biotechnological techniques for the valorization of plant resources , University of M'sila

Phytochemical valorization of a medicinal plant used in traditional Algerian medicine by HS-SPME-GC-MS and HPLC-MS methods.

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CHLEF, MAY 20TH - 22ND, 2025



Presentation plan

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Introduction

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Results and discussion

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> INTRODUCTION



Pallenis spinosa

- * Plant annual herbeceos belonging to family of Asteraceae
- * Widespered in northern Africa, southern Europe, and the mediteranean région, expecially in the desert and in the coastal habitats (Hegazy A. K et al 2011)
- * Spinosa is considered among of the most commonly species in traditional medicinIn Algeria it is used traditionally for to treat several ailments; usualy the flowers and leaves are taken orally in the forme of infusion, decoction and poulitice.





inflammation

**Microbial
infections**

**Skin injuries
(as eczema)**

Gastrologia

**Mouthe
infection**



This plant, known for its richness by secondry metabolites such as volatile constituents lake sesquiterpens and other componds polyphenols (Appenbdino et all 1989),





Objective

Contribute to the valorization and characterization of metabolites secondary of this plant ;polyphenols and terpens by Headspace solid-phase micro-extraction coupled with Gas chromatography-mass spectrometry (HS-SPME-GC-MS), and High-performance liquid chromatography-mass spectrometry (HPLC-MS).





> MATERIAL & METHODS

Sample preparation and extraction

1-Plant Material

Aerial parts of *P. spinosa* were harvested at the full flowering period during the month of May 2020 from North-East Algeria. Botanical identification of the plant was carried out based on morphological features with the help of *Authentic Flora*.

Before extraction, plant material was washed with tap water to remove dust and dried in the shade in a well-ventilated place for 7 days.

A part of the material was used fresh for the extraction of volatiles compounds.





2-Extraction HS-SPME-GC/MS method

- 02 g (fresh plant) was placed in glass vial (4 ml), sealed and left to equilibrate at room temperature (1h). (Ascrizzi et al 2017)
- The headspace was sampled with supelco SPME fibre coated with polydimethylsiloxane (PDMS, 100 μm) for 30 min.
- Fibre was removed and transformed at GC-MS (a varian CP-3800 gas chromatograph coupled to a Varian Saturn 2000 mass spectrometer.
- Mobile phase (helium was used as carrier gas at 1ml/min)(Bendif et al ,2017)
- Stationary phase (DB-5 capillary column thickness 0.25 μm .
- Oven temperature programmed from 60 to 240°C at 3°C/min.

Identification of volatile compounds was performed by comparing retention times with those of reference pure compounds, comparing their linear retention indices (LRI) to the C6-C28 series of n-hydrocarbons, and by matching their mass spectra against commercial and home-made libraries built up from pure substances.



HS-SPME-GC / MS

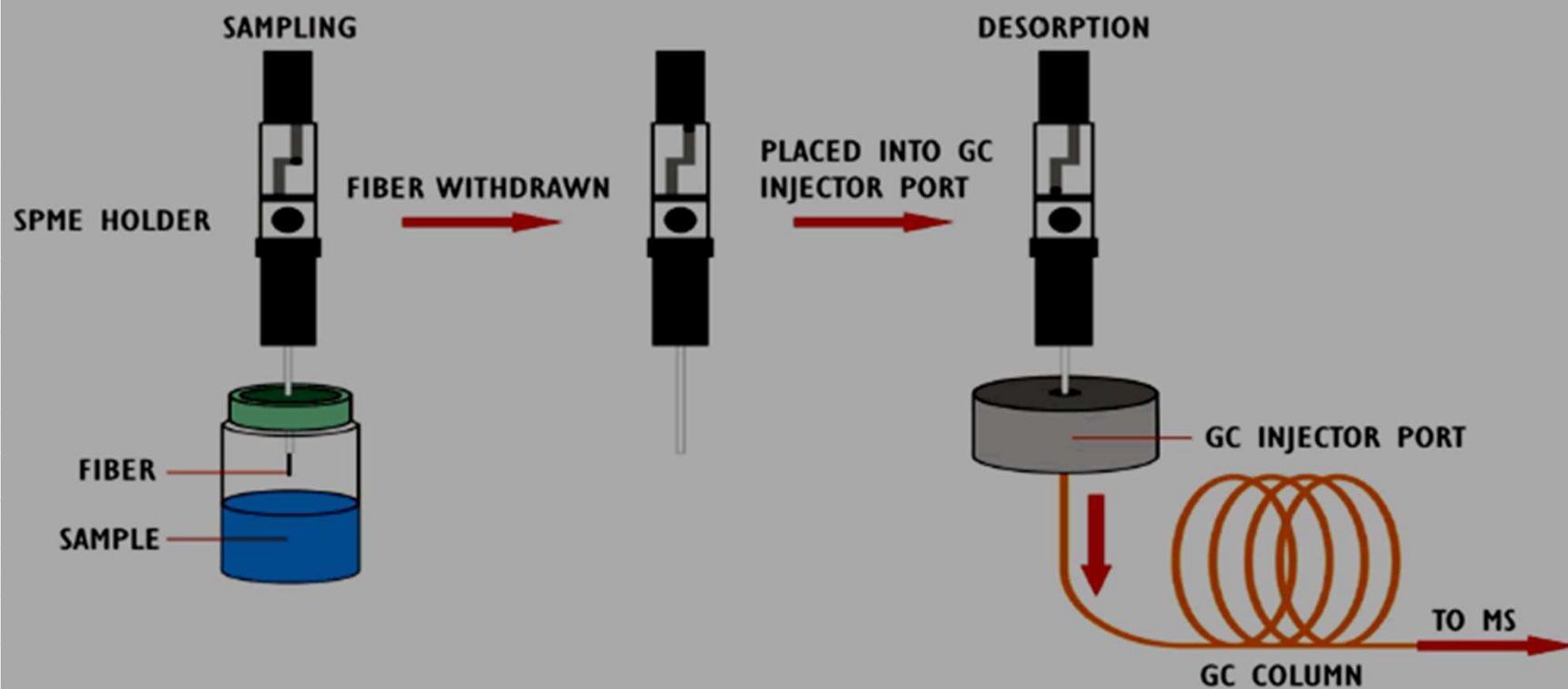


Figure 1: Diagram of analysis with solid phase microextraction-gas chromatography-mass spectrometry [SPME-GC-MS] [5].







Preparation of Extracts for HPLC-MSn Analyses

Described by *Dall'Acqua et al 2010*

20 g fine powder / 150 ml MeOH / sonicated / 10 min

Centrifugation

Supernatant was recovered in Erlenmeyer flask

Residue re-extraction more times

*3 supernatants were collected and conserved under reduce pressur
(rotary evaporator 35°C)*

Amount stord in dark glass – 20 ° C

Yielding: 2.13 g of crude extract (10.65%)





- HPLC-MS method was used for the identification of secondary metabolites in the crude methanolic extract of *P. spinosa*.
- dry sample was dissolved in methanol at a concentration of 5 mg/mL and filtered through a 0.45 μm Millipore filter.
- The turbo detection data scanning (TDDS) function of the instrument was used to investigate the fragmentation pattern of the eluted compounds



Analysis HPLC/MS



The system HPLC/MS:

- Varian 212 binary pump equipped with a Varian prostar 430 autosampler coupled to Varian 500 Ion trap mass detector (MS)*
 - An Agilent eclipse plus C18 column (2.1 X 150 mm, 3.5 μ m) was used as the stationary phase.*
 - Mobile phase: A gradient of acetonitrile (A) and 0.1% v/v formic acid in water (B) was used as the mobile phase.*
- Re-equilibration time was 8 min. The flow rate was 0.2 mL/min.**





> RESULTS & DISCUSSION

1- HS-SPME-GC-MS Analysis of Volatile Compounds

► *HS-SPME coupled with the GC-MS analysis of the aerial parts of *P. spinosa* exhibited 48 volatile compounds, accounting for 98.1% of the whole volatile extract.*



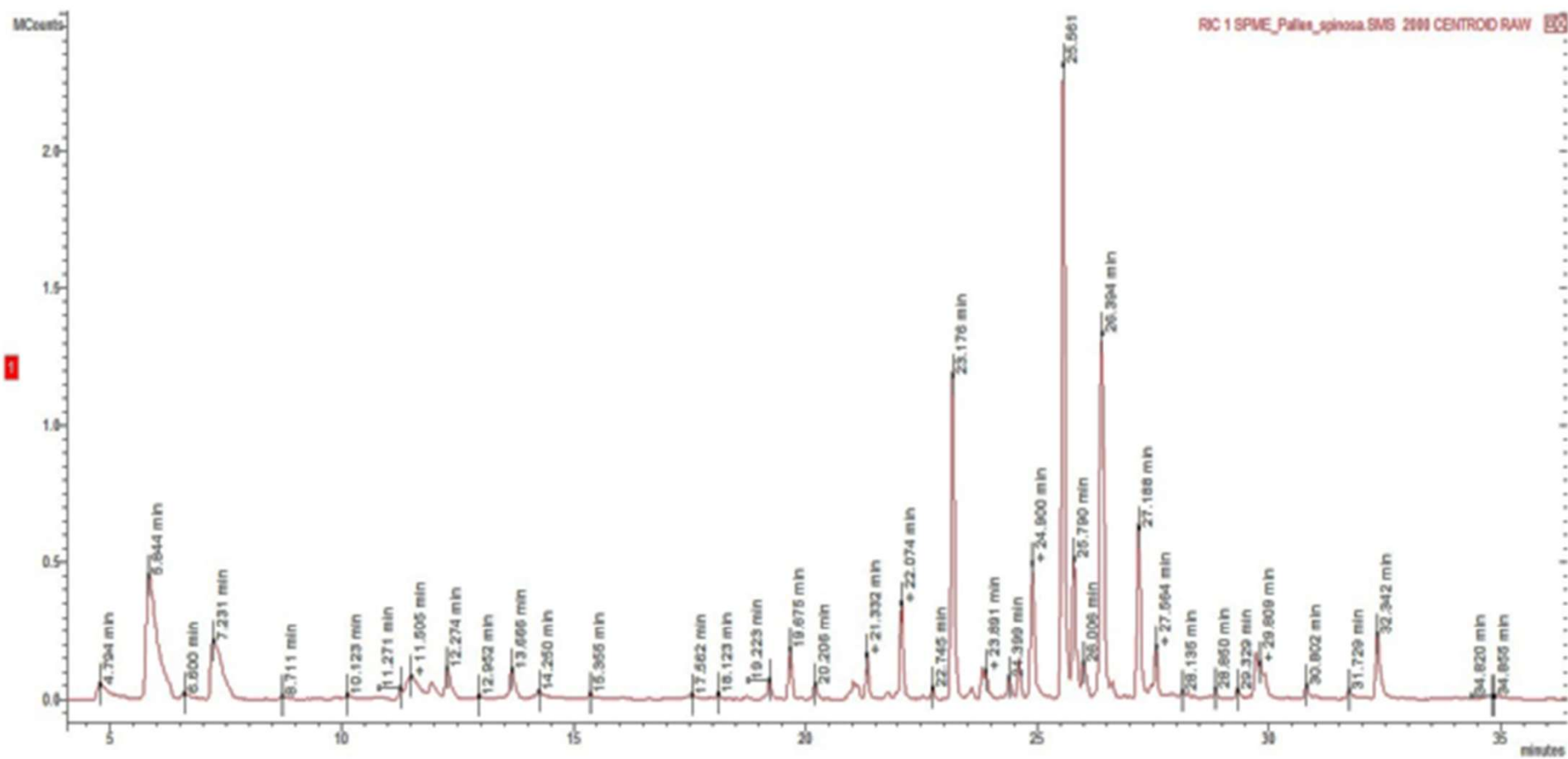


Figure 1. Exemplificative chromatogram obtained from the GC-MS analysis of the volatile extract obtained from *P. spinosa* by HS-SPME.





Table 1. Aroma profile (relative percentages of identified compounds) of the aerial parts of *P. spinosa* obtained using HS-SPME–GC–MS. Compounds are listed in order of their elution from an HP-5MS column.

Constituents	Class ^a	LRI ^b	RI Lit. ^c	%
α -pinene	MH	941	939	1.0
β -pinene	MH	982	979	10.6
α -phellandrene	MH	1006	1003	0.3
p-cymene	MH	1027	1025	5.0
cis-sabinene hydrate	MO	1070	1070	0.2
nopinone	MO	1139	1138	0.3
trans-pinocarveol	MO	1141	1140	2.3
pinocarvone	MO	1164	1164	1.5
4-terpineol	MO	1179	1177	0.2
myrtenol	MO	1195	1196	1.3
verbenone	MO	1207	1205	0.7
methyl thymol	MO	1234	1235	0.2
(E)-anethole	PP	1284	1284	0.5
trans-pinocaryylacetate	MO	1298	1297	0.2
theaspirane II	AC	1315	1315	0.1
myrtenyl acetate	MO	1327	1327	0.7
δ -elemene	SH	1340	1338	1.4
α -longipinene	SH	1352	1353	0.5
cyclosativene	SH	1369	1368	0.6
α -ylangene	SH	1372	1372	0.4
α -copaene	SH	1377	1376	1.2
geranyl acetate	MO	1383	1381	0.3
β -elemene	SH	1393	1391	2.6
longifolene	SH	1403	1402	0.1
α -gurjunene	SH	1410	1409	0.3
β -caryophyllene	SH	1419	1419	9.2
β -copaene	SH	1430	1431	0.3
γ -elemene	SH	1434	1433	0.6
trans- α -bergamotene	SH	1437	1435	0.7
epi- β -santalene	SH	1449	1448	0.5
α -humulene	SH	1456	1455	1.0
alloaromadendrene	SH	1462	1460	4.4
β -chamigrene	SH	1476	1475	16.2
germacrene D	SH	1481	1481	4.3
β -selinene	SH	1486	1485	1.4
α -selinene	SH	1495	1494	12.8
α -muurolene	SH	1499	1500	0.1
trans- γ -cadinene	SH	1514	1515	5.2
δ -cadinene	SH	1524	1523	1.5
α -cadinene	SH	1538	1539	0.2
germacrene B	SH	1557	1556	0.3
(E)-nerolidol	SO	1564	1564	0.3
germacrene D-4-ol	SO	1575	1576	1.4
spathulenol	SO	1577	1578	1.1
caryophyllene oxide	SO	1582	1581	0.7
geranyl 2-methylbutyrate	MO	1600	1596	0.4
γ -eudesmol	SO	1632	1632	0.4
τ -cadinol	SO	1641	1640	2.6
Monoterpene hydrocarbons				16.9
Oxygenated monoterpenes				8.3
Sesquiterpene hydrocarbons				65.8
Oxygenated sesquiterpenes				6.5
Phenylpropanoids				0.5
Apocarotenoids				0.1
Total identified				98.1

^a MH: monoterpene hydrocarbons; MO: oxygenated monoterpenes; SH: sesquiterpene hydrocarbons; SO: oxygenated sesquiterpenes; PP: phenylpropanoids; AC: apocarotenoids. ^b Linear retention index on HP-5MS column, experimentally determined using homologous series of C₈–C₃₂ alkanes. ^c Linear retention index taken from the NIST library.





- The volatile profile was dominated by sesquiterpene hydrocarbons (65.8%), followed by monoterpene hydrocarbons (16.9%).
- Oxygenated monoterpenes were less represented, similar to oxygenated sesquiterpenes (8.3% and 6.5%, respectively).
- Phenylpropanoids (0.5%) and apocarotenes (0.1%) were found as trace components.



- Considering the single identified compounds, the aerial parts of *P. spinosa* were characterized mainly by β -chamigrene (16.2%), α -selinene (12.8%), β -pinene (10.6%), and β -caryophyllene (9.2%).
- Some other compounds, such as *trans*- γ -cadinene (5.2%), *alloaromadendrene* (4.4%), and *germacrene D* (4.3%), were found.



Results and Discussion:

2- HPLC-MS Analysis of Polyphenols

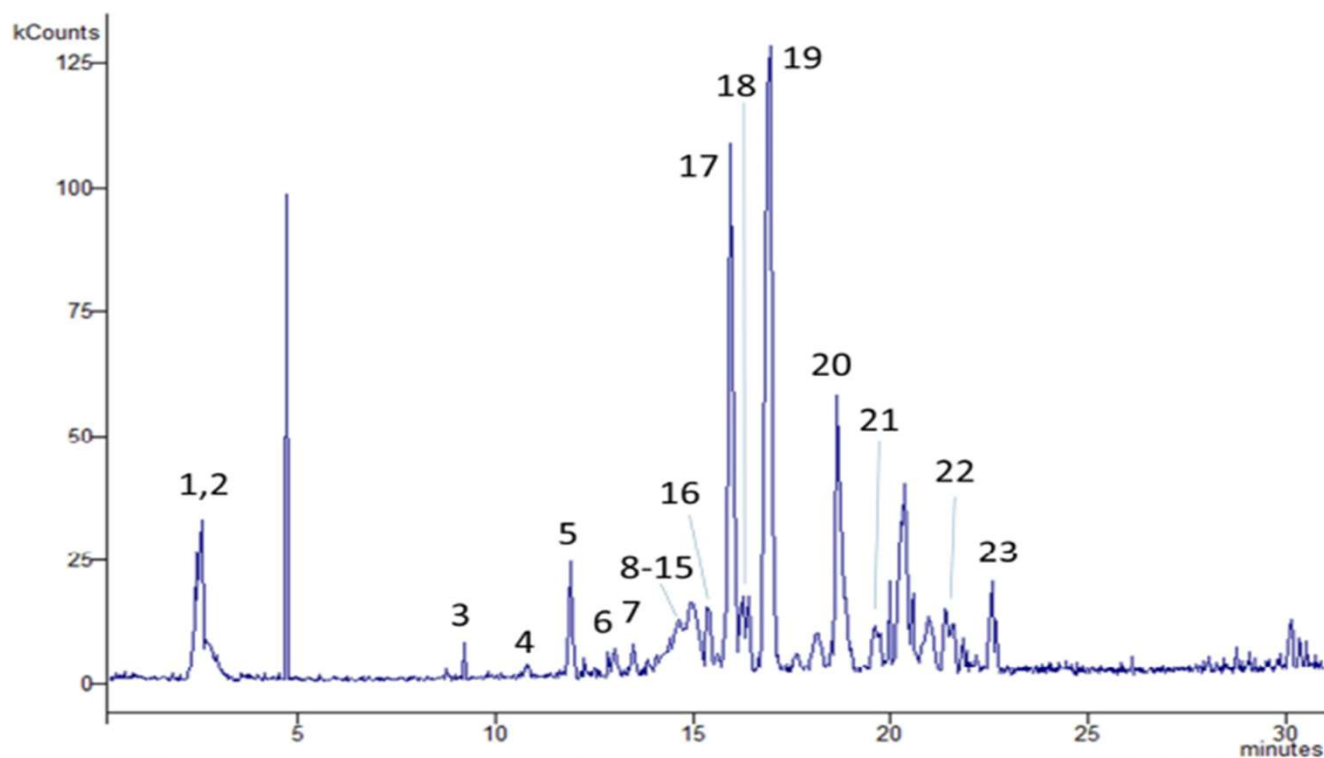


Figure 7. Exemplificative chromatogram obtained from the HPLC-MS analysis of the *P. spinosa* methyl extract. Numbers refer to the identified metabolites reported in Table 3. Peaks: (1) caffeoyl dihexoside, (2) ferulic acid, (3) quercetin, (4) caffeoyl hexoside, (5) chlorogenic acid, (6) dicaffeoylhexaric acid, (7) dicaffeoylhexaric acid isomer 1, (8) myricetin hexoside, (9) feruloylquinic acid, (10) dicaffeoylhexaric acid isomer 2, (11) patuletin-rhamnopyranosyl-galactopyranoside, (12) dicaffeoylhexaric acid isomer 3, (13) rutin, (14) dicaffeoylhexaric acid isomer 4, (15) patuletin galactoside, (16) caffeoyl diglucoside, (17) 3,5-dicaffeoylquinic acid, (18) triclin 7-glucoside, (19) tricaffeoylhexaric acid, (20) tetracaffeoylhexaric acid, (21) kaempferol, (22) apigenin, (23) triclin.



Table 3. Results from the HPLC-MSn characterization of secondary metabolites extracted from the aerial parts of *P. spinosa*.

N.	R.T. (min)	<i>m/z</i> *	MS2 Fragments (<i>m/z</i>)	Tentative Identification	Class **	mg/g DW
1	2.56	539	503 341 281 251 221 179	Caffeoyl dihexoside	PA	0.35 ± 0.03
2	2.65	193	179 149	Ferulic acid	PA	0.07 ± 0.00
3	9.33	301	179 151	Quercetin	FV	0.04 ± 0.00
4	10.85	341	179 161 135	Caffeoyl hexoside	PA	0.05 ± 0.00
5	11.88	353	191 173 127	Chlorogenic acid	PA	0.29 ± 0.01
6	13.00	533	371 209 191	Dicaffeoylhexaric acid	PA	0.12 ± 0.00
7	13.50	533	371 209 191	Dicaffeoylhexaric acid isomer 1	PA	0.11 ± 0.00
8	13.89	479	317 299 271	Myricetin hexoside	FV	0.09 ± 0.01
9	13.96	367	191 173	Feruloylquinic acid	PA	0.07 ± 0.00
10	14.40	533	371 209 191	Dicaffeoylhexaric acid isomer 2	PA	0.16 ± 0.01
11	14.46	639	331	Patuletin-rhamnopyranosyl-galactopyranoside	FV	0.09 ± 0.01
12	14.65	533	371 209 191	Dicaffeoylhexaric acid isomer 3	PA	0.08 ± 0.00
13	14.78	609	301	Rutin	FV	0.22 ± 0.02
14	15.05	533	371 209 191	Dicaffeoylhexaric acid isomer 4	PA	0.12 ± 0.00
15	15.18	493	331	Patuletin galactoside	FV	0.15 ± 0.00
16	15.38	503	341 323 221 179 161	Caffeoyl diglucoside	PA	0.24 ± 0.02
17	15.95	515	353 191 173	3,5-Dicaffeoylquinic acid	PA	1.04 ± 0.04
18	16.36	491	329 315 300	Tricin 7-glucoside	FV	0.26 ± 0.01
19	16.92	695	533 371 209	Tricaffeoylhexaric acid	PA	1.76 ± 0.10
20	18.66	857	695 533 371 209	Tetracaffeoylhexaric acid	PA	1.41 ± 0.66
21	19.66	285	270 255	Kaempferol	FV	0.13 ± 0.00
22	21.56	269	151 117 107	Apigenin	FV	0.18 ± 0.00
23	22.60	329	314 329 299	Tricin	FV	0.24 ± 0.01
Total identified						7.26 ± 0.66
Phenolic acids						5.83 ± 0.65
Flavonoids						1.42 ± 0.01

* *m/z* values of [M-H]⁺ ions are reported, except for metabolite 1, which was identified as [M-H+HCl]⁺ adduct. ** PA: phenolic acid; FV: flavonoid.





The analysis allowed us to identify 23 compounds as polyphenols.

- *phenolic acids were the most representative (5.83 mg/g).*
- *Tricaffeoylhexaric acid (1.76 mg/g DW), tetracaffeoylhexaric acid (1.41 mg/g DW), 3,5-dicaffeoylquinic acid (1.04 mg/g DW), caffeoyl dihexoside (0.35 mg/g DW), and chlorogenic acid (0.29 mg/g DW) were identified as the most abundant ones.*
- *Favonoids such as tricin , kaempferol,patuletin and apigenin were also identified ; myricetin hexoside was detected in P,spinosa for the first time*





> CONCLUSION

- *In this work, we investigated the composition of volatile compounds and non-volatile secondary metabolites of the aerial parts of *P. spinosa* from Algeria.*
- *To the best of our knowledge, this study is the first to report an exhaustive chemical characterization of this plant species, considering that, especially for non-volatile metabolites, previous works have described only a few compounds.*
- *The results indicate that the volatile profile of *P. spinosa* is dominated by sesquiterpene hydrocarbons and monoterpene hydrocarbons instead of oxygenated terpenes, conversely to what has been previously reported by other authors.*





- *Regarding non-volatile secondary metabolites, phenolic acids are the most abundant and are represented mainly by caffeic acid derivatives.*
- *Flavonoids were also detected, although in low amounts. Nevertheless, some of these are already known to exert beneficial effects in humans; hence, they may be at least coresponsible for the bioactivities associated with *P. spinosa*.*
- *Overall, the results of this study represent a contribution to the valorization of understudied plants from Algeria and the preservation of the biodiversity of this region. *P. spinosa*, which is still used as a remedy for several ailments in Algeria, represents a valuable source of phytochemicals such as polyphenols and volatile terpenes.*
- *These data may represent a starting point for further rationalization of the medicinal use of this plant species*





> REFERENCE

Article:

- 1- **Ascrizzi, R.**; Cioni, P.L.; Amadei, L.; Maccioni, S.; Flamini, G.(2017) Geographical patterns of in vivo spontaneously emitted volatile organic compounds in *Salvia* species. *Microchem. J.*, **133**, 13–21.
- 2- **Bendif, H.**; Miara, M.D.; Peron, G.; Sut, S.; Dall'Acqua, S.; Flamini, G.; Maggi, F.(2017) NMR, HS-SPME-GC/MS, and HPLC/MSn Analyses of Phytoconstituents and Aroma Profile of *Rosmarinus eriocalyx*. *Chem. Biodivers.*, **14**, e1700248
- 3- **Dall'Acqua, S.**; Maggi, F.; Minesso, P.; Salvagno, M.; Papa, F.; Vittori, S.; Innocenti, G.(2010) Identification of non-alkaloid acetyl- cholinesterase inhibitors from *Ferulago campestris* (Besser) Grecescu (Apiaceae). *Fitoterapia*, **81**, 1208–1212.





**Phytochemical valorization of a medicinal plant used
in traditional Algerian medicine by
HS-SPME-GC-MS and HPLC-MS methods.**

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Thank you for your attention





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FINAL PROGRAM



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CHLEF, MAY 20TH-22ND, 2025**



SCAN AND DISCOVER !

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1ST INTERNATIONAL SEMINAR ON DIVERSITY, VALORIZATION & CONSERVATION OF PHYTODIVERSITY CHLEF, MAY 20TH-22ND, 2025

Tuesday, May 20th, 2025

08:00 - 08:30	Registration
08:30 - 09:30	Opening Ceremony & Opening Speeches ▪ Dr. Fatima SENOUCI President of Seminar ▪ Dr. Mohammed El Amine BEKARA Dean of Faculty of Nature and Life Sciences ▪ Pr. Larbi GHOUINI Rector of University Hassiba Benbouali of Chlef ▪ Mr. Brahim GHEMIRED Wali of Chlef

PLENARY CONFERENCES

Plenary Session 1

Moderators	Pr. Abdelkader BOUTHIBA, Pr. Mohamed LARID
09:30 - 10:00	Dr. Errol VÉLA University of Montpellier / AMAP Lab. France. <i>"Half a century of taxonomic and chorologic improvement of the flora of Algeria"</i>
10:00 - 10:30	Pr. Mohamed Djamel MIARA University of Tiaret, Algeria. <i>"Current knowledge and perspectives for the identification and study of Important Plant Areas in northern Algeria"</i>
10:30 - 10:40	Mr. Rachid BENDOUDA Direction of Tourism and Handicrafts, Chlef, Algeria. <i>"المسافر الأخضر: السياحة البيئية كرافد لتنميين التنوع الطبيعي"</i>
10:40 - 11:00	Scientific Debate
11:00 - 11:30	Coffee Break + Poster Communications (Session 1)

Plenary Session 2

Moderators	Pr. Azdinia ZIDANE, Pr. Nouredine DJEBLI	
11:30 - 12:00		Pr. Mehmet ÖZTÜRK Mugla Sıtkı Koçman University, Turkey. <i>"Natural Products for Pharmaceutical Production"</i>
12:00 - 12:30		Pr. Neji TARCHOUN University of Sousse, Tunisia. <i>"Food security and horticultural biodiversity: the importance of cucurbits for sustainable agriculture in Tunisia"</i>
12:30 - 13:00		Scientific Debate
13:00 - 14:30		Lunch Break

ORAL SESSIONS

Oral Session 1

	ROOM 1 Topic 1	ROOM 2 Topic 2
Moderators	Pr. Adda ABABOU, Dr. Malika HACHI ILLOUL	Pr. Meriem MOKHTAR, Dr. Khayra ZERROUKI
14:30 – 14:40	Badia SIAB-FARSI ENS Agronomique Alger. <i>"La flore murale du Mausolée Royal de Maurétanie : phytodiversité et conservation"</i>	Mohamed MENDILI University of Tunis El Manar, Tunisia. <i>"Innovative approaches to extract biomolecules from lichens and their antioxidant and antimicrobial activities"</i>
14:40 – 14:50	Messaouda BELAID University of Boumerdes. <i>"Determination of melliferous plants of Kabylia (Algeria) through the melissopalynology"</i>	Zoubida MEZIANE University of Blida 1. <i>"Ethnobotany, Phytochemistry and Pharmacology of Punica granatum: From Tradition to Scientific Evidence"</i>
14:50 – 15:00	Rachid MOUEDDEN University of Sidi Bel Abbes. <i>"Study of the lichen biodiversity of the Doui-Thabet Forest (Western Algeria)"</i>	Hadjer CHENINI-BENDIAB University of Mostaganem. <i>"Histological study of the neuroprotective effect of Anacyclus pyrethrum L. on aluminium chloride-induced brain damage in mice Alzheimer model"</i>

15:00 – 15:10	Samir DJOUADI FSB/USTHB. "Patrimoine végétal algérien, diversité et endémisme des Loteae"	Nacera BOURIAH University of Saida. "Phytochemical Composition, Antioxidant and Antimicrobial Activities of Algerian Marine Algae Methanolic Extracts"
15:10 – 15:20	Nedjla SELT University of Mascara. "Caractérisation de la diversité de la flore messicole de l'agrosystème céréale-élevage ovin en zone semi-aride cas de la région de Saida"	Azdinia ZIDANE University of Chlef. "L'Armoise en médecine traditionnelle algérienne : Analyse ethnobotanique et évaluation du potentiel thérapeutique"
15:20 – 15:30	Karima TEBBAKH University of Constantine 1. "Exploring pollen markers diversity in Lotus L.st (Fabaceae) from Eastern Algeria"	Mokhtar GUISSOUS University of Bordj Bou Arreridj. "Chemometric Characterization of Eight Monovarietal Algerian Virgin Olive Oils"
15:30 – 16:00	Scientific Debate	Scientific Debate

16:00 - 16:30	Coffee Break + Poster Communications (Session 2)
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Oral Session 2

	ROOM 1 Topic 3	ROOM 2 Topic 2
Moderators	Pr. Mourad TAHERTI, Dr. Malika MEZIANE BOUKHATEM	Pr. Rachida ALEM, Dr. Soraya RAHMANI
16:30 – 16:40	Mohamed SARMOUM University of Tiaret. "Le cèdre de l'atlas face aux changements climatiques : vulnérabilité, résilience et conservation"	Amira ROUBAI University of Ouargla. "Enquête ethnobotanique des plantes médicinales utilisées contre la polyarthrite rhumatoïde au sud algérien -Ouargla-"
16:40 – 16:50	Ikram TILMATINE University of Blida 1. "Dynamique du cèdre de l'Atlas au niveau du Parc National de Chrèa (W de Blida) dans le cadre des changements globaux et climatiques"	Abdelouhab KATIA University of Bejaia. "Conventional and Ultrasound Assisted Extraction methods for the valorization of pomegranate peels as a source of bioactive compounds"

16:50 – 17:00	Safia LOUNICI University of Laghouat. <i>"Identification of contaminants for the preservation of an algerian strain of cyanobacteria"</i>	Hadjer KEMEL University of Jijel. <i>"Anticancer Effects of Peganum harmala Extract: Inhibition of Cancer Cell Migration and Angiogenesis via Downregulation of Pro-Angiogenic Gene Expression"</i>
17:00 – 17:10	Zahira SOUIDI University of Mascara. <i>"Spatio-temporal analysis of the Macta marshes in the face of climate change"</i>	Fatima Zohra KERMEZLI University of Chlef. <i>"Biosynthesis, Characterization of Silver Nanoparticles (AgNPs) Using Aloe Vera Leaf Extract"</i>
17:10 – 17:20	Yahia BOUKHARI University of Mascara. <i>"Impact of rainfall change on cereal production in the semi-arid zones of western Algeria: 'the case of the Wilaya of Mascara'"</i>	Hichem MAHAMMEDI USTHB, Alger. <i>"L'influence de la technique d'extraction sur les composés phénoliques et le potentiel antioxydant d'une plante médicinale : Inula viscosa L."</i>
17:20 – 17:30	Ouroud FELLAH E. S. des Sciences de l'aliment et des Industries Agroalimentaires, Alger. <i>"Impact des facteurs environnementaux sur le rendement des huiles essentielles de la menthe (Mentha x piperita) "</i>	Nacéra TADJINE University of Blida 1. <i>"Antihyperlipidemic and Nephro-Hepatoprotective activities of Zyziphus lotus L. Methanolic extract in albino mice"</i>
17:30 – 18:00	Scientific Debate	Scientific Debate

Wednesday, May 21st, 2025

PLENARY CONFERENCES

Plenary Session 3

Moderators	Pr. Abdelkader SAADI, Pr. Malika MEZIANE
08:30 - 09:00	Pr. Em. Nour-Eddine AOUF University of Annaba, Algeria. <i>"Green chemistry and sustainable development"</i>
09:00 - 09:30	Pr. Noureddine DJEBLI University of Mostaganem, Algeria. <i>"Evaluation of Quality, Environmental Footprint, Nutritional and Bioactive properties assessment Value of Some Mediterranean Wild Edible Plants Case hydroethanolic extracts of Chicorium spinosum"</i>
09:30 - 10:00	Scientific Debate
10:00 - 10:30	Coffee Break + Poster Communications (Session 3)

Plenary Session 4

Moderators	Pr. Mohammed AIT HAMMOU, Pr. Mohamed SBAIHIA
10:30 - 11:00	Pr. Dr. Alban IBRALIU University of Tirana, Albania. <i>"Biodiversity of MAPs in Albania: Future Challenges Agricultural"</i>
11:00 - 11:30	Pr. Meriem MOKHTAR University of Mostaganem, Algeria. <i>"Enhanced Resolution of Complex Bioactive Mixtures Using One-Dimensional and Comprehensive Two-Dimensional Liquid Chromatography (LC×LC)"</i>
11:30 - 12:00	Scientific Debate
12:00 - 13:30	Lunch Break

ORAL SESSIONS

Oral Session 3

	ROOM 1 Topic 3	ROOM 2 Topic 2
Moderators	Pr. Khellaf REBBAS, Pr. Saçi NEDJAI	Dr. Fatima Zohra HAMDANI, Dr. Leila GADOUCHE
13:30 – 13:40	Keyssa LAIDI University of Tizi Ouzou. <i>"Prédiction de l'aire de répartition potentielle de Quercus afares au nord algéro-tunisien"</i>	Imene YAHLA University of Mostaganem. <i>"Anti cancer Effet of Prunus Armeniaca l. Kernels Against Induced Liver Cancer in VIVO"</i>
13:40 – 13:50	Boubakr SAIDI University of Tiaret. <i>"Impact des variations saisonnières sur la composition des communautés végétales des Monts de Tessala, Algérie occidentale"</i>	Sihem BELKHITER University of Blida 1. <i>"Artemisia judaica subsp. sahariensis du Sahara algérien : Richesse phytochimique, innocuité et potentiels antioxydant et antispasmodique"</i>
13:50 – 14:00	Neji TARCHOUN University of Sousse, Tunisia. <i>"Seed Priming and Biopriming: A Sustainable Strategy to valorize squash biodiversity, Promote Germination and Alleviate Salt Stress"</i>	Ibtihal TRIQUI University of Oran 1. <i>"Etude phytochimique et évaluation de l'activité antioxydante et antimicrobienne de Salvia algeriensis Desf., une plante aromatique endémique du Nord-Ouest de l'Algérie"</i>
14:00 – 14:10	Hicham CHELGHOUM University of Sidi Bel Abbes. <i>"Les Rochers calcaires de la région de l'Oued Rhio, une Zone importante pour les plantes"</i>	Khayra ZERROUKI University of Chlef. <i>"Mitigating Neurotoxicity with Salvia officinalis: In Vitro and In Vivo Antioxidant Evaluation"</i>
14:10 – 14:20	Boubaker IDDER University of Adrar. <i>"Made-man Greenbelt in hyper-arid regions, sustainable heritage creation for biodiversity management and conservation"</i>	Wahiba BOUKHARI University of Ouargla. <i>"Traditional Ethnobotanical Knowledge in Camel-Herding Communities of the Algerian Sahara: Insights from a One Health Approach"</i>
14:20 – 14:30	Fatiha MEDDAH University of Oran. <i>"Smart Computing Approach for the Valorization of Phytodiversity"</i>	Nouria HELLAL University of Blida 1. <i>"Ethnobotanical Investigation of Medicinal Plants in the Ain Antar Region, Boucaid Commune, Tissemsilt, Algeria"</i>
14:30 – 15:00	Scientific Debate	Scientific Debate

15:00 - 15:30	Coffee Break + Poster Communications (Session 4)
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Oral Session 4

	ROOM 1 Topic 4	ROOM 2 Topic 2
Moderators	Pr. Mohamed SARMOUN, Dr. Fatima NEHAL	Dr. Sarra METLEF, Dr. Safia ALI HAIMOUD
15:30 – 15:40	Samira MAOU University of Chlef. <i>"Characterization of extracted bio-microcellulose particles from date palm agro-residues"</i>	Yasser SI AFIF University of Oran 1. <i>"Ethnobotanical survey of plants used for the treatment of infertility in the Oran and Mostaganem regions"</i>
15:40 – 15:50	Hacene ELHAMEUR University of Chlef. <i>"Conception d'un bioretardateur de feu nanostructuré écologique"</i>	Nora GHALIAOUI CRAPC. <i>"Valorisation des Plantes Médicinales Sahariennes : Potentiel Phytochimique et Biologique pour la Santé"</i>
15:50 – 16:00	Hanifa Wafaa GUERROUDJI University of Blida 1. <i>"Sustainable valorisation of phytodiversity in western Algeria: an integrated approach to contemporary environmental challenges"</i>	Mohamed ZAIRI University of Sidi Bel-Abbes. <i>"Le potentiel antioxydant des huiles essentielle du Romarin (Rosmarinus Officinalis) dans la conservation des produits alimentaires (l'huile de tournesol)"</i>
16:00 – 16:10	Malika HACHI ILLOUL University of Chlef. <i>"Conservation des ressources phytogénétiques forestières : Cas de l'Arganier (Argania spinosa (L.) Skeels) introduit à Chlef (Plantation de la conservation des Forêts)"</i>	Nabila ADOUI University of M'sila. <i>"Phytochemical valorization of a medicinal plant used in traditional Algerian medicine by HS-SPME-GC-MS and HPLC-MS methods"</i>
16:10 – 16:20	Scientific Debate	Leila GADOUCHE University of Chlef. <i>"Deciphering of the subacute effects of an aqueous extract of a species from the Algerian Sahara, Artemisia judaica"</i>
16:20 – 17:00		Scientific Debate

17:00 - 17:30	Closing Ceremony
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Thursday, May 22nd, 2025

08:30 - 14:30

Exploratory visit, Reflections & Exchanges



POSTER SESSIONS

Tuesday, May 20th, 2025

Session 1 | 11:00 - 11:30

ROOM 1

Evaluators

- Dr. Nabila Zemmar ▪ Dr. Malika HACHI ILLOUL ▪ Dr. Souad GHAOUACI
- Dr. Kamela MEHIRA ▪ Dr. Djahida HEDIDI ▪ Dr. Nassira BOUZADA
- Dr. Fella AISSIOU ▪ Dr. Fatima BELHACINI ▪ Mr. Taieb ACHOUR

Code	Communication's Title / Authors / Affiliations
T1/P1	Influence de la granulométrie sur la diversité foliaire des arganiers de Touiref Bou Aam, Tindouf, Algérie. Louiza ACI, Noria SAADOUN. <i>Université Ziane ACHOUR, Djelfa.</i>
T1/P2	Microalgae diversity of two closed systems in Relizane regions in the northwest of Algeria. Hanane OUCIF, Miloud BENAÏSSA, Leila SADDIKIOUI, Nadia Yasmine ASFOURI, Nawel LAREF, Fethia Meriem MELIANI, Dehiba BENZIDANE. <i>Ahmed ZABANA University of Relizane.</i>
T1/P3	Inventaire faune et flore du barrage de Gargar de la région de Relizane. Leila BELKHEDIM. <i>Université Ahmed zabana, Relizane.</i>
T1/P4	La végétation dunaire du littoral est du parc national El Kala (Algérie). Issam BOUCHAHANE, Lamia BOUTABIA, Salah TELAILIA. <i>Université de Djelfa.</i>
T1/P5	La flore butinée par les halictidae dans la région de Tizi-Ouzou (2014). Yamina KORICHI, Asmaa SADAT. <i>ENS-Kouba, Alger.</i>
T1/P6	Evaluation de la Végétation et des Ecosystèmes Steppiques dans la Région de Naâma, Algérie. Samira MEBKHOUTI, Noury BENABADJI. <i>Université de Tlemcen.</i>
T1/P7	Phytodiversité et biogéographie des oasis de Moghrar dans la wilaya de Naama. Hadj BOUYAHIA, Assia BEKKOUCHE, Houari YEROU, Fatma BENABDELMOUNENE, Radhwane ALLAM. <i>Centre universitaire Salhi Ahmed, Naâma.</i>
T1/P8	Aperçu de la diversité orchidologique du Sous-secteur des plaines littorales "O2" dans la région de Sidi Bel Abbès (Nord-Ouest de l'Algérie). Mayssara ELBOUHISSI, Mohamed AIT HAMMOU, Mohamed Djamel MIARA. <i>Conservation des forêts, Sidi Bel Abbes.</i>
T1/P9	Inventaire de plantes endémiques et rares associées au groupement à Pin d'Alep, Genévrier de Phénicie et Chêne kermès dans le sublittoral Oranais. Lila BRAKCHI, Ahlem DEBIEB, Ahlem MERIEM, Zineb DJERRAD. <i>USTHB Bab Ezzouar, Alger.</i>
T1/P10	Ecology of halophyte vegetation in relation to soil characteristics in the Macta wetlands. Houria CHAALAL, Ahmed MEGHARBI, Mohammed El amine BENTAALLAH, Bachir MAHI, Kheira Hiba BENGHAFFOR. <i>University of Relizane.</i>

T1/P11	Évaluation de la diversité floristique des communautés à Pistacia atlantica Desf. et Pistacia lentiscus L. (Médéa, Algérie). Rachida BOUDERBALA, Saida AKKOUICHE, Leila BRAKCHI, Nassima GUERRACHE, Ahlem DEBIEB, Karima CHAOUADI, Zineb DJERRAD, Kamilia KHARBA, Leila KADIK. USTHB, Alger.
T1/P12	Orobanche leptantha Pomel (Orobanchaceae) une plante parasite rare et endémique : nouvelle hôte, nouvelle répartition. Mansour AISSAOUI, Asmaa ARABI, Amel SARI ALI, Brahim BABALI. Université Abou-Bekr Belkaid, Tlemcen.
T1/P13	Le pistachier de l'Atlas : une alternative pour restaurer les milieux marginalisés (Cas du Sud de Tebessa, N.E algérien). Massinissa ALOUI, Souad NEFFAR, Haroun CHENCHOUNI. Université de Tébessa.
T1/P14	Diversité des adventices des champs du blé cultivé sous pivot dans la région d'Adrar. Mohammed Abdallah GUERBOUZ, Mohammed SOUDDI, M'hammed BOUALLALA. Université Ahmed Draia, Adrar.
T1/P15	Etude de l'état sanitaire du dépérissement de Pinus halepensis dans la forêt domaniale de Tiaret (Ouest d'Algérie). Khaldia BOUAZZA, Oumeldjilali Naggar, Sabrina Naceri, Manel Hasnaa Hamzaoui. Université Ibn Khaldoun, Tiaret.
T1/P16	Fabaceae, Ecology, Rhizosphere Diversity and Economy Interests: Case of Fabaceae in Natural Ecosystems in Northwest Algeria. Fatma Zohra Ghania MADJI, Asma EL ZEREY-BELASKRI, Meriem REZKI-BEKKI; Abdelkader BEKKI. Université Ahmed Ben Bella, Oran 1.
T1/P17	Diversité floristique du plateau de Tademaït (Sahara central algérien). Mohamed Said GUERBOUZ, Mohammed SOUDDI, Ahmed BOULAL. Université Ahmed Draia, Adrar.
T1/P18	Diversité floristique et structure de la végétation ligneuse de la forêt de Karicha au Sud-Ouest de la wilaya de Chlef (Algérie). Nabila ZEMMAR, Djahida HEDIDI, M'hamed AROUS. Université Hassiba Ben Bouali, Chlef.
T1/P19	Flore vasculaire du Parc National de Theniet El Had. Etat des lieux et enjeux de la conservation. Mohamed SARMOUM. Université de Tiaret.
T1/P20	Bioressource méconnue : les endophytes fongiques du Sahara algérien, un trésor d'antibiotiques encore inexploité. Sana GOUBI, Atef CHOUIKH, Mehdi SELMANE, Houda GHARSALLAH. Université Echahid Hamma Lakhdar, El-Oued.
T1/P21	Post-Fire Floristic Dynamics and Resilience of the El-Hamdania Cork Oak Forest, Chrea National Park. Ahlem DEBIEB, Nacere ADI, Leila KADIK. University of Sciences and Technology Houari Boumediene, Algiers.
T1/P22	Sur la présence de Juniperus oxcucedrus subsp. badia dans la région de Tlemcen – Algérie ; aspect systématique, taxonomique et morphométrique. Brahim BABALI, Asma RADJAI, Kouider CHERIFI. Université Abou Bekr Belkaid, Tlemcen.
T1/P23	Environmental regionalization and endemic plant distribution in the Maghreb. Taib ASMA, Walas ŁUKAS. Benyoucef Benkhedda university of Algiers.
T1/P24	Caractérisation écologique du site naturel de Senalba Chergui (Wilaya de Djelfa) en vue d'un classement en aire protégée. Nassima SOUYAD. USTHB, Alger.
T1/P25	Phyto-ecological study of the Hmadena station (Lower Cheliff Plain- ALGERIA). Djamel Eddine MOKHTARI, Abdelkader DOUAOU, Fatima BELHACINI, Djamel BELAGUE, Ahmed BELOUAZNI. Hassiba Benbouali University of Chlef.

T1/P26	Etude des groupements végétaux de l'espèce <i>Arbutus unedo</i> L. dans les forêts de la région de Chlef (Nord-ouest algérien). Djahida HEDIDI, Nabila ZEMMAR, Bilal BENMOUHOU, Walid Merouane BOUADEL. <i>Université Hassiba Ben Bouali, Chlef.</i>
T1/P27	Phytodiversity of <i>Acacia raddiana</i> Communities in the Saharan Region of Tindouf. Ali TAIBI, Fatima BELHASSINI, Amina MOSTEFAL, Rachida KERZABI, Assia BEKKOUCHE, Abdelkader GUENAIA. <i>University of Tindouf.</i>
T1/P28	Phytodiversity of riparian vegetation along the Cheliff Oued (Chlef Province, Northwest Algeria). Nassira BOUZADA, Adda ABABOU et Fatima SENOUCI. <i>Hassiba Benbouali University of Chlef.</i>
T1/P29	Taxonomic and molecular investigations of the <i>Allium cupanii</i> Raffin. complex in Algeria: polyploidy and dysploidy. Thinhinane KHEDIM, Nabila ABDI, Adi NACER, Hana ZAKKOUMI, Amina BOUHERAMA, Samir DJOUADI, Smain TRABSI. <i>USTHB, Algiers.</i>
T1/P30	Contribution à l'étude phytoplanctonique du barrage de Sidi Yakoub (Chlef). Souad GHAOUACI. <i>Hassiba Benbouali University of Chlef.</i>
T1/P31	Relations des formations forestières avec les propriétés physico-chimiques des sols en milieu semi-arides : Cas de la région de Mostaganem. Yamina BAKHTI, Mohamed LARID, Abdelkarim HASSANI. <i>Université Ibn Khaldoune, Tiaret.</i>
T1/P32	Actualisation et analyse de la flore des massifs forestiers de Boutaleb et Djebel Cheddoug : les monts du Hodna, wilayas De M'sila et Setif (Algerie). Souhila BOUNAB. <i>Centre de recherche en Agropastoralisme, Djelfa.</i>
T1/P33	Phenotypically Diversity of Male Palms (<i>Phoenix dactylifera</i> L.) Based on Morphological Characters. Bilal BENAMOR, Noura GHERAÏSSA, Linda RETIMA, Nezar CHERRADA, Adel CHALA. <i>Higher School of Saharan Agriculture, El Oued.</i>
T1/P34	Inventory of herbaceous plants in the El-Machrouha region (Souk-Ahras). Asma NECIB, Lynda HAOUAM, Ouail ATIK, Asma GUENDOZ. <i>University of Souk Ahras.</i>
T1/P35	Phytoremediation of zinc-polluted soil using Coriander "<i>Coriandrum album</i>". Amina BELDJILALI, Khayra MEHIRI, Fatima Zahra ASSAS, Roufaïda BENYAMINA. <i>Hassiba Benbouali University of Chlef.</i>
T1/P36	Study of the biodiversity of syrphidae on Citrus in the Chlef region. Radja BADANI, Ahmed MOHAMMEDI. <i>Université hassiba Ben Bouali, Chlef.</i>
T1/P37	Valorisation de la diversité agro-pomologique du figuier (<i>Ficus carica</i> L.) d'Algérie. Zine-eddine BENETTAYEB, Dalila AMOKRANE. <i>Université hassiba Ben Bouali, Chlef.</i>
T1/P38	Inventory of pesticide plants in the Blida region. El khansa BOURENANE, Rezki BELKOUS, Ahmed MOHAMMEDI, Adda ABABOU. <i>University of Hassiba Benbouali Chlef.</i>
T1/P39	Diversité de la flore médicinale du massif forestier de Collo (W. Skikda). Abdelouahab BELAÏDI, Imane BOULKHEMAIR, Chaima BOULAKSA, Asma LEZGHED. <i>Université de Skikda.</i>
T1/P40	Valorisation et application environnementale de la biomasse algale de la côte ouest algérienne en vue de développement d'un nouveau procédé de dépollution. Moustafa NAAS. <i>Université Ahmed Ben Bella, Oran 1.</i>
T1/P41	Phytosociological approach to cork OAK (<i>Quercus Suber</i>) in the wilaya of Chlef. Soumia BRIK, Adda ABABOU. <i>Hassiba Benbouali University of Chlef.</i>
T1/P42	Assessment of Cyst and Filiform Nematodes in Saline Soils Under Cereal Cultivation. Abdelkader MEKHANEG, Ahmed BELOUAZNI, Mohamed RATA, Zoubir HACHOUN.

	Université de khemis miliana.
T1/P43	Les Orchidées du Parc National de Theniet El Had (Tissemsilt) : inventaire, écologie, taxonomie et biogéographie. Kadda Mohamed Amine CHOUHIM, Mohamed MAIRIF, Kamel ZEMOUR, Hamid CHERIER. Université de Tissemsilt.
T1/P44	Contribution à l'étude phytoécologique de la forêt de Gharrous W de Mascara. Djamel ANTEUR, Fatima BELHACINI, Abdelkrim BENARADJ. Université Dr Tahar Moulay, Saida.

Session 1 | 11:00 - 11:30

ROOM 2

Evaluators

- Dr. Meriem SAADOUD ▪ Dr. Chafika BELEHCENE ▪ Dr. Wafa KOUADRI
- Dr. Dalila AMOKRANE ▪ Dr. Halima SAIH BOUDJELTIA
- Dr. Amina BEKARA ▪ Dr. Mohamed KOUIDRI ▪ Dr. Amina DILMI BOURAS
- Dr. Fatiha ARIOUI

Code	Communication's Title / Authors / Affiliations
T2/P1	Etude des propriétés antifongiques et microbienne des extraits de feuilles de cèdre de Atlas (<i>Cedrus atlantica</i>) de la région de Chréa. Bounila R., Meftouh M. Univertsité de Blida 1.
T2/P2	Etude ethnobotanique d'<i>Aristolochia longa</i> dans la région de Ténès et Chettia. Amina BEKARA, Mohammed El Amine BEKARA, El Hadja Malika AMZERT, Khadidja CHEIKH. Université hassiba Ben Boulali, Chlef.
T2/P3	A study of the effects of variety and season of collection on the amounts of bioactive compounds in Algerian Olive Leaves. Hasna BOULKROUNE. University Mohamed El Bachir El Ibrahimi, Bordj Bou Arreridj.
T2/P4	Etude ethnobotanique et phytochimique du Caprier <i>Capparis spinosa</i> L. Nazli NACERBEY, cherifa Guebli, Fatma Zohra OUKARA. Ecole Nationale des Sciences Agronomiques El Harrach Algerie.
T2/P5	Exploration phytochimique et biologique des graines de <i>Zizyphus jujuba</i> : Analyse GC/MS des huiles essentielles et tests d'activité antibactérienne. Soraya RAHMANI, Insaf F.Z. MANSOUR. Université hassiba Ben Boulali, Chlef.
T2/P6	Antioxidant and Antibacterial Activities of Butanol Crude Extract from <i>Argania spinosa</i> L. of Tindouf Region. Fatima Zohra KHIAT, Hanane Sihem SEBAA, Ahlem KARBAB, Abderrezak DJABEUR, Nouredine CHAREF. Université des Sciences et de la Technologie Mohamed Boudiaf, Oran.
T2/P7	In vitro evaluation of the antibacterial efficacy of flaxseed (<i>Linum usitatissimum</i>) extracts versus conventional antibiotics against avian pathogens: toward natural antimicrobial alternatives. Said DAHMOUNI, Zineb BENGHARBI, Fatiha SOLTANI, Nouredine BENGUENNOUNA, Kamel FODIL, Djilali BENABDELMOUMENE, Nardjas BENAMAR. Université de Mostaganem.
T2/P8	Unlocking the Anti-Inflammatory Properties of Chamomile: Insights from In Silico Molecular Docking Study. Imene MESSAOUD NACER, Leila SAADI, Farida KADRI. University of Blida 1.
T2/P9	Characterization and ant burn effect of the emulsion (Ointment) of the leaves of <i>Morus Alba</i> and its stability by a biosurfactant.

	Saadia BOUCHHER, Redha ALOUAOUI, Mohamed KOUIDRI, Samira FERHAT. Yahia FARES University, Medea.
T2/P10	Étude ethnobotanique des plantes médicinales utilisées dans le traitement du cancer dans l'Ouest algérien. Fatima BELHACINI, Djamel ANTEUR, Fayssal TSOURLI. Université de Ain Temouchent.
T2/P11	Seeds of <i>Hyoscyamus muticus</i> L. Subsp. Falezlez: Morpho-anatomical features, phytochemical profile and evidence for antioxidant activities. Sofia AYARI-GUENTRI, Nadjet DJEMOUAI, Fawzia BEDDOU, Baya BOUCENNA, Tassadit AIT KETTOUT, Rabéa GACEB-TERRAK. Université de Alger -1.
T2/P12	Evaluation of antimicrobial activity of five medicinal plant against nosocomial uropathogens. Kheira SETTI AHMED, Hakim TEFIEL, Kada CHOUEHIM, Mohamed CHAHBAR, Fouad MEKHALEF BENHAFSA, Omar KHAROUBI. University of Tissemsilt.
T2/P13	Phenolic compounds content and anti-acetylcholinesterase activity of <i>Aloysia triphylla</i> flowers macerated extract. Zohra TOUATI, Lila BOULEKBACHE-MAKHLOUF, Asma RESSAÏSSI, Maria Luisa SERRALHEIRO. University of Bejaia.
T2/P14	Bioactive compounds in <i>Pistacia atlantica</i> Desf pollen and their In vitro inhibitory against ABTS free radical. Chaima KAIFES, Mohamed YOUSFI, Hamid GUENANE. Amar Téliidji University of Laghouat.
T2/P15	Anti-bacterial study of aqueous leaves extract of <i>Balanites aegyptiaca</i> plant. Yazid AMRI, Mohammed Abdelkader BELALEM, Mohammed Said NEDJIMI, Hania AMRI. University of Tamanghasset.
T2/P16	Phytochemical study and evaluation of the antioxidant and anti-inflammatory activities of <i>Thapsia garganica</i> roots from Algeria. Faiza BOUDJELLA, Fouad BAHRI, Koula DOUKANI. Abdelhamid Ibn Badis University of Mostaganem.
T2/P17	Evaluation in silico by using the molecular docking the anti-inflammatory potential of selected phytochemicals derived from medicinal plant. Khadidja ABDELKEBIR, Ounassa ADJROUD. Université de Batna2.
T2/P18	Seasonal variation of essential oil in <i>Rosmarinus officinalis</i> leaves in Algeria, and their biological activities. Khalil GUELIFET, Khaled KHERRAZ, Mohamed Amine FERHAT, Mohammed MESSAOUDI, Yassin KHOUALED. ENS Kouba, Alger.
T2/P19	Ethnopharmacologie des plantes médicinales algériennes : Alliance entre savoirs traditionnels et soins modernes des plaies. Amel BOUDJELAL, Sarra CHABANE. Université de M'sila.
T2/P20	Effet antibactérien de l'extrait éthanolique de <i>Cupressus sempervirens</i>. Kheira Hiba BENGHAFFOR, Zouheyr HADRI, Houria CHAALAL, Farida AOUI. Université Ahmed Zabana de Relizane.
T2/P21	Medicinal plant inventory of the Dahra region: A comprehensive survey Adda ABABOU, Fatima SENOUCI, Nassira BOUZADA. Hassiba Benbouali University of Chlef.
T2/P22	Evaluation of the Chemical Composition, Polyphenol Content, and Antioxidant Potential of Aqueous and Hydroethanolic Extracts of <i>Nigella sativa</i> and <i>Pimpinella anisum</i>. Faffa BEGHADID, Asma REMIL, Samira MEZIANI, Allia AMARA. Djilali Liabes University of Sidi Bel Abbès.
T2/P23	Influence des solvants sur l'extraction des polyphénols à partir des différents organes de <i>Passiflora caerulea</i> L., <i>Physalis peruviana</i> L. Nour El Houda LEZOUL, Mohamed BELKADI, Habibi FARIBORZ, Fabián GUILLÉN. Université des Sciences et de la Technologie Mohamed Boudiaf, Oran.

T2/P24	Exploring the Potential of Medicinal Plants in Enhancing Neurological and Behavioral Functions in Autistic Children in Western Algeria. Khedidja AGGAB, Med-lamine TOUMI, Nesrine HACINI, Radia DJELLOUL. <i>Chadli Bendjedid University of Eltaref.</i>
T2/P25	Valorization of the Antioxidant and Antimicrobial Activity of three Medicinal Plants: <i>Rosmarinus eriocalyx</i>, <i>Artemisia herba-alba</i> and <i>Mentha pulegium</i> L. Kamel BENOTMANE, Mustapha DJELLOULI, Naima Leila MEGHOUEL, Said NEMMICHE. <i>University of Relizane.</i>
T2/P26	Essential oils from <i>Ammodaucus leucotrichus</i> Coss. & Dur. and <i>Artemisia campestris</i> L. and their binary mixture: Synergistic antioxidant and antibacterial activities in combination with each other and with conventional antioxidant and antibiotics. Achraf KHALDI, Amina MAZERI, Kheira MEHDI, Abdelkader Elhadj BERREZIG. <i>Tahri Mohamed university of Bechar.</i>
T2/P27	The Impact of Environmental Variation on Nutritional Value and Antioxidant Activity of <i>Ceratonia siliqua</i>. khaled KHERRAZ, Yassine KHOUALED, Khalil Guelifet, belgacem CHIKHA, Abir MESAI, Belkacem KRARIMA, Abdkrim KAMELI. <i>École Normale Supérieure-Kouba, Alger.</i>
T2/P28	Polyphenolic profile of Citrus peel from Tlemcen (West Algeria). Nassima MALTI, Farah DJELTI, Amina TOUIL, Youcef KACHEKOUCHE, Hafida MERZOUK. <i>University of Tlemcen.</i>
T2/P29	Effect of Drying Method on Extraction Yield and Chemical Composition of a Local <i>Lamiaceae</i>. Mokhtaria CHELEF, Keltouma MAZROU. <i>University of Tiaret.</i>
T2/P30	Unlocking the anti-inflammatory potential of <i>Glycyrrhiza glabra</i> extract: In Vitro and In Silico insights into Glycyrrhetic Acid's modulation of Phospholipase A2. Farah DJELTI, Nassima MALTI. <i>University of Tlemcen.</i>
T2/P31	Investigating the Anti-Inflammatory and Immunomodulatory Properties of <i>Ajuga iva</i> extract: In Silico and In Vitro Analysis in Dysmenorrhea Management. Farah DJELTI, Tarik CHAOUECHE, Rachid AZZI, Imane Ghellai, Meriem BELARBI, Abdelkrim GUENDOUZI, Lotfi BELKHIRI. <i>University of Tlemcen.</i>
T2/P32	Phytochemical Study of <i>Ulva rigida</i>: Nutritional Composition and Bioactive Activities. Abderrahmane BENTAIBA, Hanene ZOUAIDIA, Khokha ALILACHE, Fedwa Yassamine TSOURI. <i>École Supérieure de Sciences de l'Aliment et des Industries Agroalimentaires, Alger.</i>
T2/P33	The antibacterial effect of Agarwood (<i>Aquilaria Malaccensis</i>) on gynecological diseases in the city of Sidi Bel Abbes Habib MELIANI, Chahrazed BOUFELDJA, Meriem BENAYAD, Meryem BELABBAS, Faiza BENNABI. <i>Université de Sidi Bel Abbes.</i>
T2/P34	Insights into the phenolic content and biological activities of <i>Pistacia lentiscus</i> L. oil from the sub-arid region of Algeria (Hodna). Lamia DERRADJI, Abderrahim BENKHALED. <i>University of M'sila.</i>
T2/P35	Valorization of Citrus Peels: Phytochemistry, Pharmacological Potential, and Ethnobotanical Applications of Bioactive Compounds. Sara MAKHLOUF, Malika MEZIANE. <i>Hassiba Benbouali University of Chlef.</i>
T2/P36	Optimization of microwave-assisted extraction of flavonoids from aerial parts of <i>Henophyton deserti</i> using response surface methodology. Oussama BOUKHALFA, Khaled SEKKOUM, Samia HADJRABIA, Nacer BELBOUKHARI. <i>Tahri Mohamed university of Bechar.</i>
T2/P37	L'exploration des sous-produits de <i>Crocus sativus</i> L. pour l'élaboration des extraits thérapeutiques contre le diabète de type 1. Meriem el betoul DOUZI, Bouchra LOUKIDI. <i>Université de Tlemcen.</i>

T2/P38	Phytochemical and biological evaluation of essential oils of some spontaneous plants in Tiaret region (Algeria). Messaouda ADDA, Yamina OMAR, Koula DOUKANI. <i>University of Tiaret.</i>
T2/P39	Etude phytochimique et évaluation de l'activité antioxydante des extraits méthanolique et aqueux de <i>Pardoglossum cheirifolium</i>. Fatima CHEBIRI, Hassina GUERGOUR, Sabah BOUMERFEG, Asma MEZITI, Yuva BELLIK, Hiba GHERZOULI, Mohamed Redha AIDEL, Nasreddine MEKHOUKH. <i>Université Mohamed El Bachir El Ibrahimi, Bordj Bou Arréridj.</i>
T2/P40	Etude ethnobotanique de la plante médicinales <i>Ammoides pussila</i> (verticillata) dans la région de terni (les monte de Tlemcen) West Algérien. CHEMOURI Fatima Zahra, Assia BEKKOUCHE, Bahaeddine BENDI-DJELLOUL-GHAZLAOUI. <i>Université de Souk Ahras.</i>
T2/P41	Phytochemical Analysis and Antioxidant Activity of nine Algerian Olive Leaves Hasna BOULKROUNE, Mokhtar GUISSOUS. <i>University Mohamed El Bachir El Ibrahimi, Bordj Bou Arreridj.</i>
T2/P42	Physicochemical Evaluation of Prickly Pear Cladodes (<i>Opuntia ficus-indica</i>): Nutritional and Biochemical Potential. Nacera HEDIA, Malika MEZIANE AHMED, Khedidja BOUDOUR. <i>University of Chlef.</i>
T2/P43	Phytochemical and antioxidant characterization of <i>Thymelae hirsuta</i> L. extract. Rachida BOUTELDJA, Fatima Zohra ABDI, Radhouane DOUCENE, Hebib AGGAD, Leila Soher BENHAMMOUDA, Amina BELKHEMAS. <i>Université Ibn khaldoun, Tiaret.</i>
T2/P44	Unveiling the Phytochemical Profile and Anticancer Potential of <i>Pituranthos scoparius</i> Extract and Essential Oil. Sarrah CHABANE, Amel BOUDJELAL, Asli YILDIRIM KOCAMAN, Ibrahim DEMIRTAS. <i>University of M'sila.</i>
T2/P45	Computational Screening of Clove Essential Oil Phytochemicals: Insights into PI3Ka Inhibition and Anticancer Mechanisms. Nesrine ISSAAD, Nihed CHENGANE, Ibtissem Amel KHELLAF, Tarek CHERIFI. <i>Benyoucef Benkhedda University of Algiers.</i>
T2/P46	In-Silico Evaluation of <i>Asparagus racemosus</i> Saponins and Phytoestrogens as Estrogen Receptor Alpha Inhibitors in Breast Cancer. Nesrine ISSAAD, Asma DJATTOUF, Djamila HAROUNE, Tarek CHERIFI. <i>Benyoucef Benkhedda University of Algiers.</i>

ROOM 1

Evaluators

- Dr. Mohamed TEBANI ▪ Dr. Youssef ZAIRI ▪ Dr. Naçera SALHI
- Dr. Ibrahim HABIBI ▪ Dr. Brahim BABALI ▪ Dr. Nouredine ABDELKRIM
- Dr. Leïla KHELIFI ▪ Dr. Amina BELDJILLALI

Code	Communication's Title / Authors / Affiliations
T3/P1	Nutritional, zootechnical, and drought resilience of <i>Amaranthus cruentus</i> L.: A multifunctional plant for resilient agriculture. Ahlem AMRANI, Nassima LASSOUANE. <i>National Higher School of Agronomy, Algiers.</i>
T3/P2	Impact des changements bioclimatiques sur la diversité des Astéracées dans le sud de Tlemcen. Fatma BENABDELMOUNENE, Assia BEKKOUCHE, Noury BENABADJI. <i>Université Djilali Bounaama, Khemis Miliana.</i>
T3/P3	Impacts de la sécheresse sur la biodiversité des prairies dans le Sud-ouest algérien. Fouad GANI, Hadj Aïssa BENELKADI, Abdellah BOUMAKHLEB, Amar KHADOUMI, Belkacem DAOUDI, Khawla ZIOUANI, Rachid DAHMANI. <i>Agropastoralism Research Center (CRAPast), Djelfa.</i>
T3/P4	Food Security and the Impacts of Climate Change on Citrus Tree Health. Saliha OGAB, M'hamed BENADDA, Boualem BOUMAAZA. <i>University of Relizane.</i>
T3/P5	Assessing the Impact of Climate Change on Vegetation Dynamics using Remote Sensing and Soil Analysis in semi-arid regions. Nouredine KELKOULI, Mohamed Islem BOUACHA, Ana Maria TARQUIS ALFONSO. <i>University Ibn Khaldoun of Tiaret.</i>
T3/P6	<i>Juniperus phoenicea</i> L. of Dj. Mekther W. Naama as a vicarious species of three types of chemical profiles from around the Mediterranean. Houari HADJ HABIB, Mohammed MOKADDEM, Ahmed MEGHARBI, Med El Amin BACHIR BOUIADJRA. <i>Ahmed Zabana University of Relizane.</i>
T3/P7	Impact des changements climatiques sur la croissance et l'état de santé du Pin d'Alep dans l'Ouest de l'Algérie. Abdelhak BOUKNINE, Mohamed SARMOUM, J. Julio CAMARERO, Cristina VALERIANO, Mohamed AIT HAMMOU, Fatima Zahra MOKHFI, Asmaa BOUKNINE. <i>Univiversité Ibn khaldoun, Tiaret.</i>
T3/P8	Multi-Temporal remote sensing reveals increasing OAK forest vulnerability in North-east Souk Ahras (2002-2022). Boutheina KHELIFI, Halima SLIMANI, Hana SOUALAH-ALILA. <i>Mouhamed Cherif Messadia University, Souk-Ahras.</i>
T3/P9	Climate Change and Natural Risks in the Wilaya of Saïda (Algeria): Implications for Plant Diversity. Chaimaa KHADIR, Mohamed TERRAS. <i>University of Saïda.</i>
T3/P10	Influence des facteurs environnementaux sur la croissance et la stabilité du pin d'Alep (<i>Pinus halepensis</i>) dans une région aride de Naâma. Samira MEBKHOUTI, Samira Mebkhouti1, Noury BENABADJI, Okkacha HASNAOUI. <i>Université de Tlemcen.</i>
T3/P11	Impact des variations climatiques saisonnières sur la dynamique des levures rhizosphériques de la fève : Potentiel PGP de <i>Candida membranifaciens</i> pour améliorer la croissance des cultures (Orge et fève). Youssef KHITER, Meriem A. REZKI, Abdelkader BEKKI. <i>Ahmed Ben Bella University, Oran1.</i>

T3/P12	Etude de la variabilité des précipitations annuelles du bassin versant du Chelif dans le cadre du changement climatique. Mohamed RATA, Yacine RATA, Abdelkader MEKHANEGUE, Abdelkader DOUAOU. <i>Université Djillali Bounaama, Khemis Miliana.</i>
T3/P13	Facteurs de dégradation du couvert végétal dans les forêts de la wilaya de Chlef durant la période (1999,2021). Youssef ZAÏRI, Rihab KASSOUL, Salima FEDDI. <i>Université Hassiba Ben Bouali, Chlef.</i>
T3/P14	Utilisation de la télédétection dans l'évaluation de la perte du couvert végétal dans les forêts de Marsa. Youssef ZAÏRI, Abdelhak BOUHARIRA, Zakaria SEMANE, Khaled BESBAS. <i>Université Hassiba Ben Bouali, Chlef.</i>
T3/P15	Impact de la sécheresse météorologique sur le couvert végétal dans la région du haut et moyen Cheliff, Algérie. Meriem FELLAG, Abdelhak BOUHARIRA, Mohammed ACHITE, Kamel Abderezak TOUBAL. <i>Hassiba Benbouali University of Chlef.</i>
T3/P16	Characterization of the temporal variability of drought in the watershed of Oued Seybouse North-Eastern Algeria. Amina KHEZAZENA, Noureddine KOULLA, Amina TABET, Zouina HAOULI. <i>Université El Oued.</i>
T3/P17	Effets du tabagisme actif et passif sur la gravité de l'asthme et les altérations du profil oxydatif. Amira AISSAOUI, Mouna ZIANI, Karim Achour KOURI. <i>Université Hassiba Benbouali de Chlef.</i>
T3/P18	Gestion durable des eaux souterraines pour l'irrigation et préservation des écosystèmes végétaux : cas de la plaine de Ghriss. Djazia BOUDERBALA, Yahia BOUKHARI, Zahira SOUIDI. <i>Université Mustapha Stambouli, Mascara.</i>
T3/P19	Climate Changes and Their Impact on Plant Diversity. Bakhta CHENAOUI. <i>Hassiba Benbouali University of Chlef.</i>
T3/P20	Frequency analysis of annual maximum daily precipitation under climate variability (case study: Wadi Sly basin, Algeria). Mohammed ACHITE, Tommaso CALOIERO, Kamel Abderezak TOUBAL. <i>Hassiba Benbouali University of Chlef.</i>
T3/P21	Impact of Human Activities and Climate Change Effects on Groundwater pollution: A Case Study of the Upper Cheliff Plain (Algeria) BRADAI Abdelhamid , HABIBI Brahim , YAHIAOUI Ibrahim <i>Hassiba Benbouali University of Chlef</i>
T4/P1	Cartographie des Zones Vulnérables aux Incendies de Forêt à l'Aide des SIG et de la Télédétection : Cas de la Forêt de Bissa dans la région de Chlef, Algérie. Brahim MOHAMMEDI, Mhamed MAATOU, Mohamed Islem BOUACHA. <i>University of Tiaret.</i>
T4/P2	Algerian Argan Grove Facing Vulnerability. Zineb HAMANI, Abdelkader GUENAI, Nafissa SAHEL. <i>University of Bechar.</i>
T4/P3	The role of environmental governance in the protection of plant biodiversity in Algeria "an environmental – economic approach". Saïda OULD LAGHOUATI, Smain SENOUCI. <i>University of Algiers 3</i>
T4/P4	Natural restoration capacity of steppe rangeland vegetation (Djelfa). Benhoua KHENFER, Mohammed MEDJEBER, Nabila ZEMBRI, Messaoud BOURAGBA. <i>Research Center in Agropastoralisme, Djelfa.</i>
T4/P5	Biological solutions for a sustainable future: Impact of PGPB on Aleppo Pine growth. Halima GUETTAF, Tayeb SITAYEB, Noureddine HALLA. <i>University of Saïda.</i>
T4/P6	Aspect phytogéographique et de phytodiversité des parcours steppiques aménagés.

	Hocine Fadlallah RABAH, Belkacem NOUAR, Elhadj TIR, Maamar BENCHOHRA, Hicham BERRABAH, Mohamed Said MAHMOUD, Amine AISSA, Samir RABAH. <i>Université de Tissemsilt.</i>
T4/P7	The domestication of spontaneous plants in Algeria, an innovative approach for biodiversity conservation and sustainable development. Chouaib SELKH, yahia BOUSLAH, Mohammed OULD SAFI. <i>University of Adrar.</i>
T4/P8	Rôle des abeilles sauvages dans la conservation de la diversité florale. Abdeldjabar ROUABHI, Leila BENDIFALLAH, Yasemin GÜLER. <i>Université de chlef.</i>
T4/P9	Suivi de la dynamique et de la régénération forestière après incendie dans un écosystème du sud de la Méditerranée à l'aide d'image Landsat. M'hamed AROUSS, Adda ABABOU, Fatima SENOUCI. <i>Hassiba Benbouali University of Chlef.</i>
T4/P10	Updated Surveillance of the Citrus Tristeza Virus and its main vectors. Abdallah Nabil BENTURQUIA, Malika MEZIANE, Samir ALI AROUS. <i>Hassiba Benbouali University of Chlef.</i>
T4/P11	Establishing a database for the purpose of monitoring, conducting management studies, and fostering forest development in the Dahra Mountain region. Houria KRELIFI OTSMANE, Adda ABABOU, Fatima SENOUCI. <i>Hassiba Benbouali University of Chlef.</i>
T4/P12	Dynamique floristique et enjeux de gestion durable de la cédraie de Chréa. Nacère ADI, Arezki BELKHOUS, Rachid Fethi HAMMOUDA, Azziz Ryad HIRCHE. <i>Université des Sciences et de la Technologie Houari Boumediene, Alger.</i>
T4/P13	Production and characterization of a brown seaweed-derived biochar: pyrolysis conditions to use as sustainable reinforcement. Samira MAOU, Asma BENHARKAT, Yazid MEFTAH, Leila DJAHNIT, Fatima Zohra KERMEZLI, Fouzia OUADAH BENSALAH. <i>Université de Chlef.</i>

Session 2 | 16:00 - 16:30

ROOM 2

Evaluators

- Dr. Sarra METLEF
- Dr. Leila DJAHNIT
- Dr. Samira MAOU
- Dr. Khayra ZERROUKI
- Dr. Yazid MEFTAH
- Dr. Anissa MOHAMMEDI
- Dr. Meryem BELABBAS
- Dr. BELHADJ Souad

Code	Communication's Title / Authors / Affiliations
T2/P47	Etude ethnobotanique de romarin (<i>Rosmarinus Officinalis</i> L.) dans les Cinq communes de sidi bel Abbes. Amina SAID, Chafik MHAMDIA, Samia GHOMARI. <i>Djillali-Liabes University, Sidi Bel Abbes.</i>
T2/P48	Impact of Bradyrhizobium sp. Inoculation on the Bioactive Compound Profile and Antimicrobial Potential of <i>Mentha pulegium</i> L. Essential Oil. Zineb DJERRAD, Nacère ADI, Ahlem MERIEM, Lila BRAKCHI. <i>University of Sciences and Technology Houari Boumediene, Algiers.</i>
T2/P49	Étude ethnobotanique de deux espèces de la famille des lamiacées. Farida AOUI, Asma TAMERT, Souaad MESOUD DJEBARA, Khouloud HASSENE. <i>Université Ahmed Zabana, Relizane.</i>
T2/P50	Etude des propriétés antibactériennes de l'huile essentielle d'origan (<i>Origanum vulgare</i>) sur le parasite d'abeille (<i>Varroa jacobsoni</i>). Imene AFRAOUCENE, Naouel FEKNOUS, Djamila KEBOUR. <i>Université Saad Dahleb, Blida I.</i>

T2/P51	Phytochemical characterisation of carob "<i>Ceratonia siliqua</i> L." pulp components. Yasmine MERDJI, Meriem TOUAIBIA. <i>Saad Dahleb University of Blida1.</i>
T2/P52	Cytotoxicity, Antioxidant, Antibacterial, Enzyme Inhibitory, Anti-Mold Activities and Thin Layer Bioautography of <i>Ambrosia artemisiifolia</i> L. Extracts Hamdi BENDIF, Hanane KHALFA, Sarra SENOUCI, Sabah LARIT, Nabila SOUILAH, Chawki BENSOUSSI, Khellaf REBBAS, Hamdi BENDIF. <i>University of Msila.</i>
T2/P53	Analyse de la composition chimique par GC/MS de l'huile essentielle de <i>Thymus algeriensis</i> Zineb BOURAKNA, Soumaya HACHANI, Hadjer AOUISSI. <i>Université de Laghouat.</i>
T2/P54	Caractérisation chimique de <i>Ulva lactuca</i> par HPLC et potentiel antifongique contre <i>Fusarium oxysporum</i>, <i>F. sp. albedinis</i> et <i>F. sp. lycopersici</i>. Khouloud AITIALEFF, Yassine GUENDOUI, Aicha DEBIB, Assia FODILI, Manel MEDJBER, Fodil AOULMI, Meriem BOUDJENOUN. <i>Université Amar Telidji, Laghouat.</i>
T2/P55	Antifungal Potential of Marine Algae-Derived Bioactive Molecules for the Biological Control of Phytopathogenic Fungi. Assia FODILI, Khouloud AITIALEFF, Aicha DEBIB. <i>Ecole Normale Supérieure de Kouba, Algiers.</i>
T2/P56	Le rôle hépatoprotecteur des dattes (<i>Phoenix dactylifera</i>) sur la toxicité médicamenteuse dans le cadre de la maladie de Parkinson. Wahiba DOUANI, Kheira ZERROUKI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P57	GC-MS profile, phytochemical screening and antimicrobial activity of essential oils and extracts of <i>Peganum harmala</i> L. leaves from different regions in southern Algeria. Abderrahmane GHILLACE, Ourida CHOUIAH. <i>Mustapha Stambouli University of Mascara.</i>
T2/P58	Etude du pouvoir antimicrobien des extraits de feuilles du caroubier (<i>Ceratonia siliqua</i> L.). Rima KOCHERANE, Kamilia BACHIR, Naima BOUTEKRABT, Nacéra TADJINE, Saïda MESSGO-MOUMENE. <i>Université de Khemis Miliana.</i>
T2/P59	Activité anti <i>Helicobacter pylori</i> de quelques plantes médicinales. Houria KASMI, Khawla ZIOUANI, Nacéra BOURIAH. <i>Centre de recherche en agropastoralisme, Djelfa.</i>
T2/P60	Enjeux ethnobotaniques, écologiques et perspectives de conservation du pistachier de l'Atlas (<i>Pistacia atlantica</i> Desf.) dans la région de Naâma. Souaad BELAID, Tayeb NOURI, Abdelkrim BENARADJ. <i>Centre Universitaire Salhi Ahmed de Nâama.</i>
T2/P61	Evaluation of antiradical properties of the aqueous extract of <i>Carthamus caeruleus</i> L. Sarrra SENOUCI, Nesrine Ouda AMARI, Ouafa REBAI. <i>University of Abdelhamid Ibn Badis, Mostaganem.</i>
T2/P62	Valorization of essential oils rich in carbonyl compounds by Hemi-synthesis. Brahim CHERFAOUI, Farid CHEBROUK, Feriel TOUMI, Sahar BENABDELLAH. <i>Scientific and Technical Research Center in Physico-Chemical Analysis (CRAPC), Tipaza, Algeria.</i>
T2/P63	Valeur nutritive de dix plantes fourragères spontanées dans la wilaya de Chlef. Hamida SALHI, Bekhta NASROUNE, Sarah ZIAT, Malika MEZIANE, Aouda NOURA. <i>Université de CHLEF.</i>
T2/P64	Assessment of In Vivo and In Vitro Anti-Inflammatory Activities and Characterization of Bioactive Compounds from <i>Carthamus caeruleus</i> Leaves. Karima DJAFRI, Fatima BOUARSA, Abdelaziz MEROUANE, Abdellah NOUI, Abdelkader SAADI. <i>Université Hassiba BenBouali de Chlef.</i>
T2/P65	Evaluation of antioxidant and antidiabetic activities of polyphenols obtained from extracts of Olivier (<i>Olea europaea</i> L.). Mohamed KOUIDRI, Bakhtia MAMMERI. <i>Université de Chlef.</i>
T2/P66	Antimicrobial Potential of <i>Ceratonia siliqua</i> L. Leaf Extracts: A Phytochemical Approach to Combat Pathogenic Microorganisms.

	Meryem BOUCHAKOUR, Fatima NEHAL, Saadia BENELHADJ DJELLOUL, Laetitia CANABADY-ROCHELLE. <i>Hassiba Ben Bouali University of Chlef.</i>
T2/P67	Etude ethnobotanique sur les plantes médicinales utilisées contre l'hépatite : cas de El-Bayadh. Asmaa ARABI, Mansour AISSAOUI, Mustapha Mahmoud DIF, Wahiba DIF, Brahim BABALI. <i>Centre Universitaire Nour Bachir, El-Bayadh.</i>
T2/P68	Évaluation de l'activité antibactérienne (in vitro) de deux espèces aromatiques <i>Pistacia lentiscus</i> L. et <i>Cupressus sempervirens</i> de la région de Chlef Algérie. Dalila AMOKRANE, Khedidja BOUDOUR, Malika HACHI-ILLOUL, El hassene LANKRI, Malika MEZIANE AHMED. <i>Université de Chlef.</i>
T2/P69	Plantes médicinales à usage thyroïdien : enquête ethnobotanique dans la région d'Aïn Defla. Nor El Houda DOUAOURI, Asma GOUDGIL, Redouane ZIOUCHE, Ahmed ARBOUCHE, Saida Hamida CHERIF. <i>University of Blida 1.</i>
T2/P70	Formulation trial of a dairy product (yogurt) with ginger (<i>Zingiber officinale</i>). Wassila BELKHIRI-BEDER, Amel AIDLI-OUADAH, Sabrina ZEGHICHI-HAMRI, Dyhia REBOUHE, Thiziri CHAKIROU, Khodir MADANI. <i>Université Abderrahmane Mira, Bejaia.</i>
T2/P71	<i>Allium sativum</i> oil as a natural preservative in UHT cream: the effects on nutritional and organoleptic properties. Mohamed MENDILI, Eya BEN MOUSSA, Chedia AOUDHI, Ayda KHADHRI. <i>El Manar University of Tunis.</i>
T2/P72	HPLC analysis, In vitro antioxidant, anti-α-amylase and anti-α-glucosidase effects of Algerian <i>Cupressus sempervirens</i> L. Thoraya GUEMMAZ, Nour El Houda BELABAS, Nadjat AZZI, Younes DOUFFA, Haifaa LAROUI, Fatima ZERARGUI, Karima SAFFIDINE, Abderrahmane BAGHIANI. <i>Farhat Abbas University of Setif 1.</i>
T2/P73	In Vivo potential Anti-inflammatory Activity of ointments based on <i>Aristolochia longa</i> plant. ATTOU Soumia, Fatima LAHSENE, Hamza BELKHODJA, Amina MAIZI, Asma BELMIMOUN, Khadidja SIDE LARBI, Boumediene MEDDAH. <i>University of Mascara.</i>
T2/P74	Antimicrobial activity of the poly polyphenols compounds from the aerial part of the <i>Arthrophytum Scoparium</i> L. Oussama Taib Aidi, Mohamed Yousfi, Mohamed Harrat, Samira Nia. <i>Université Amar Telidji- Laghouat.</i>
T2/P75	L'effet neuroprotecteur des extraits de <i>Medicago sativa</i> originaire du sud algérien. Hanane MEGDAD. <i>Université des sciences et de la Technologie Mohamed Boudiaf, Oran.</i>
T2/P76	Qualitative analysis of polysaccharides from <i>Inula viscosa</i> cell walls. Rayen ANOUCHE, Aicha BOUHAFSOUN. <i>University of Sciences and Technology Mohamed Boudiaf, Oran.</i>
T2/P77	Pharmacological evaluation of essential oils from selected asteraceae plants: acute toxicity, antioxidant, and anti-inflammatory activities. Mohammed ElAmin SAID, Youcef BENAÏSSA KEDDAR, Khedidja BENOUI, Soufiane GUELLA, Yassine KhALFI, Isabelle BOMBARDA. <i>Djillali-Liabes University of Sidi Bel Abbès.</i>
T2/P78	Dosage des composés phénoliques et effet de l'extrait aqueux de <i>Micromeria inodora</i> et ses fractions organiques sur l'activité de l'alpha-glucosidase. Sarrah ADJDIR, Nabila BENARIBA, Asma BECHIRI, Rabah DJAZIRI. <i>Université Abou Bekr Belkaid, Tlemcen.</i>
T2/P79	Antioxidant Potency of Methanolic and Ethanolic Extracts of <i>Eucalyptus sideroxylon</i>: Regional and Subspecies Variations in Algeria. Nada ALI TURKI, Leila BOUKHALFOUN, Abderrezak KIROUANI. <i>Université Dr. Yahia Fares de Medea.</i>
T2/P80	Connaissances ethnobotaniques et usages traditionnels de la lavande (<i>Lavandula</i> spp.) dans la région de Chlef (Nord-ouest algérien).

	Djahida HEDIDI, Fatima Zohra HAMDANI, Thourya EL MAHI, M'hamed AROUSS, Nabila ZEMMAR. <i>Université Hassiba Ben Bouali de Chlef.</i>
T2/P81	Etude de la diversité floristique et approche ethnobotanique (Conservation et préservation) : cas du massif de Chr��a - Alg��rie. Rym BARHOUMI, Leila KADIK, Ettayib BENSACI. <i>Universit�� des sciences technologiques HOUARI Boumedi��ne, Alger.</i>
T2/P82	Optimized Protocol for Cellulose and Hemicellulose Yield from <i>Phoenix dactylifera</i> Spadices Using NaOH, KOH, and DMSO: A Valorization Approach. Hassiba BOKHARI. <i>Universit�� des Sciences et de la Technologie Mohamed Boudiaf, Oran.</i>
T2/P83	Ethnobotanical survey in eastern Algeria and phytochemical analysis of natural substances in some plants of Lamiaceae and Myrtaceae families. Yousra HAGGOU, Kheira ERROUANE, Chahrazed AIBECHE, Rayen ANOUCHE, Abderezak DJABEUR. <i>Mhamed Boudiaf University of sciences and technology, Oran.</i>
T2/P84	In Vitro and In Silico Evaluation of the Antioxidant and Antimicrobial Activities of <i>Zingiber officinale</i> Essential Oil. Hadjira TEGGAR, Malika MEZIANE AHMED, Sakina AGROUCHE, Omer ALMARFADI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P85	Exploring the potential of <i>Dittrichia viscosa</i> extracts for antioxidant, antiproliferative and apoptotic effects on human liver cancer cells and a molecular docking study. Naoual KHEYAR, Farida KHEYAR, Saliha BOUCHEFFA, Louiza ARKOUB, Nabila BRAHMI. <i>University of Bejaia.</i>
T2/P86	In vitro evaluation of the antibacterial activity of <i>Haloxylon scoparium</i> aqueous extract against clinical strains of urinary tract infections. Yassine R��GGAMI, Amani AMAMRA, Imene BECHEKER, Hajira BERREDJEM. <i>20 August 1955 University of Skikda.</i>
T2/P87	Phytochemical Screening and Antioxidant Properties of Aqueous Extract from <i>Tetralinis articulata</i> Leaves: A Study from the Fergoug Forest, Mascara, Algeria. Houria BOUABANE, Khedoudja KANOUN, Boumedi��ne MEDDAH. <i>University of Sidi-Belabbes.</i>
T2/P88	Biochemical Valorization of <i>Citrus limon</i> Peel: A Comparative Approach of Aqueous and Ethanolic Extracts. Manel ALLEM, Malika AHMED MEZIANE, Souheyla MEKRAF. <i>Hassiba Benbouali University of Chlef.</i>
T2/P89	Comparative Fumigant Toxicity of <i>Rosmarinus officinalis</i> and <i>Myrtus communis</i> Essential Oils Against <i>Rhyzopertha dominica</i> Adults. Yamina MAAMAR SAMEUT. <i>Hassiba Benbouali University of Chlef.</i>
T2/P90	Profil LC-MS/MS de l'extrait m��thanolique d'��corces de citrus. Meryem BOUTHIBA, Rachida ALLEM, Meryem BACHIR. <i>Universit�� Hassiba Benbouali de Chlef.</i>

Wednesday, May 21st, 2025

Session 3 | 10:00 - 10:30

ROOM 1

Evaluators

- Dr. Siham ZIRI
- Dr. Safia Ali HAIMOUD
- Dr. Abdelhak MAHMOUDI
- Mr. Djamel Eddine MOKHTARI
- Dr. Fatima Zohra HAMDANI
- Dr. Dalila AMOKRANE
- Dr. Fatima NEHAL
- Dr. Bakhtia MAMMERI

Code	Communication's Title / Authors / Affiliations
T2/P91	Phytochemical Analysis and Evaluation of Antioxidant and Antimicrobial Activities of <i>Melissa officinalis</i> Ethanolic and Hexanoic extracts. Lamia SID ALI, Abdelkader KHADRAOUI, Marwa SENDJASNI, Khadidja BENAOUA, Mohamed CHAOUCHI. <i>Djilali Bounaama University of Khemis Miliana.</i>
T2/P92	L'enveloppe de graine de <i>Moringa oleifera</i> : une ressource végétale sous-exploitée à potentiel nutritionnel. Anissa DERDER, Selma BEKKA, Maria BENDRISSOU. <i>École Supérieure des Sciences de l'Aliment et des Industries Agroalimentaires (ESSAIA), El Harrach, Alger.</i>
T2/P93	Exploring the Cytotoxic Effects of <i>Peganum harmala</i> L. Alkaloids Against the H1975 Non-Small Cell Lung Cancer Cell Line. Djoughina CHABIRA, Randa BOUCHAMA, Dalila NAIMI. <i>University of Biskra.</i>
T2/P94	Bioactive Phenolics from <i>Opuntia stricta</i> Cladodes: An LC-MS/MS Based Identification. Halima LAZREG, Hanane Sihem SEBAA, Katia Khadidja ABDEDDAIM, Abderrezak DJABEUR. <i>University of Sciences and Technology Oran Mohammed Boudiaf USTO, Oran, Algeria.</i>
T2/P95	"Essential Oil of <i>Portulaca oleracea</i> L.: A Natural Alternative to Conventional Anti-Inflammatory Agents". Assia NEHARI, Zyneb SADOK, Meriem MEDJKANE, Malika KOICHE. <i>Hassiba Benbouali University of Chlef.</i>
T2/P96	Antioxidative properties of fruit processing by-products' extracts. Salima BOUDANE, Halima SAIAH. <i>Hassiba Benbouali University of Chlef.</i>
T2/P97	Phytochemical characterization, antioxidant and anti-inflammatory proprieties of the endemic <i>Salvia algeriensis</i> (Desf.) extracts from Northwestern Region of Algeria. Fatima Zohra BOUARSA, Abdallah NOUI, Abdelkader SAADI, Karima DJAFRI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P98	Integrated Evaluation of <i>Cinnamomum camphora</i>: Radical Scavenging, Cytotoxicity, and In Silico Docking of Major Compounds. Hadjira TEGGAR, Malika MEZIANE AHMED, Sakina AGROUCHE, Omer M. ALMARFADI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P99	Etude sur l'effet antiparasitaire de l'huile essentielle formulée <i>Citrus limonum</i> (L.) contre le <i>Varroa jacobsoni</i>. Mohamed Aniss HIOUAL, Djamila KEBOUR, Thoraya DAHMANE. <i>Université Saad Dahleb de Blida.</i>
T2/P100	Optimization of Secondary Metabolite Extraction from <i>Myrtus communis</i> L. Fruits and Evaluation of Their Biological Activitie. Lydia AISSAOUI, Hadrian Amel BENCHOHRA, Mohamed TOUNSI. <i>Djilali Liabes University of Sidi bel Abbes.</i>

T2/P101	Evaluation du potentiel antioxydant des extraits méthanoliques des coproduits de deux variétés d'Orge (<i>Hordeum vulgare</i> L.) algériennes. Latifa BENSEMANE. Mohamed BOUDIAF University of M'sila.
T2/P102	Évaluation pharmacologique de l'extrait hydroalcoolique d'<i>Inula viscosa</i> L. de la région de Sidi Bel Abbès. Mohamed TOUNSI, Zahra BENKHAMALLAH, Lydia AISSAOUI. Université Djillali Liabes, Sidi Bel Abbès.
T2/P103	Activités cicatrisante, antioxydante et antibactérienne de l'extrait hydro-méthanolique des feuilles de la plante <i>Cytisus Triflorus</i> de la région de Jijel. Imane BOUZIT, Lamia BENGUEDOUAR, Mohamed SIFOUR. Université de Jijel.
T2/P104	Phytochemical Composition and Insecticidal Activity of Methanolic Extracts from Two Halophilic Plants, <i>Atriplex halimus</i> and <i>Limbarda crithmoides</i>, Against <i>Tribolium confusum</i>. Mounira TABOURI, Mustapha DJELLOULI, Khadidja BELKHIR, Saïd NEMMICHE. Université de Relizane.
T2/P105	Valorization of pectins extracted from Cork Oak. Imene BENBELKACEM, Aicha BOUHAFSOUN, Amel MEHTOUGUI, Souad TEBIB ARBIA, Abderezzak DJABEUR, Mehmet Emin DURU. Université des Sciences et Technologie Mohamed Boudiaf, Oran.
T2/P106	Profil phytochimique, antioxydant, antidiabétique, évaluation anti-inflammatoire in vitro et in vivo de l'extrait éthanolique des feuilles et des fleurs d'<i>Anabasis articulata</i> (forssk.) moq. Yasmina MAKHLOUF, Amel BOUAZIZ, Dalila AMOKRANE. Université Ferhat Abbas, Sétif 1.
T2/P107	<i>Ephedra alata</i> aerial parts extracts: HPLC-DAD analysis of phenolic compounds and a prospective remedy against Multidrug Resistant Bacteria clinical isolate. Abdelhadi BOUSSENA, Fouad BAHRI, Mohamed KOUIDRI. Université de Mostaganem.
T2/P108	Free radical scavenging, reducing power and total phenolic content of <i>Echium methanolic</i> extract boraginaceae family. Amel FENNICHE, Khadidja DEHIMI, Dalila BENCHEIKH, Saliha DAHAMNA. Université de M'sila.
T2/P109	Study of the antibacterial activity of essential oil extracted from <i>Syzygium aromaticum</i> L. Nardjesse NEMICHE, Fatima Zohra KERMEZLI, Fatima Zohra SEBBA Fatima BERREBIA. Mohamed Boudiaf University of science and Technology, Oran.
T2/P110	Nutritional value and antioxidant potential evaluation of aqueous extract of <i>agaricus bisporus</i> mushroom. Ali SI-LARBI, Fatiha BENAHMED, Chaimaa KHADIR. Ahmed Zabana University, Relizane.
T2/P111	Aromatherapeutic valorization of a medicinal plant from the biodiversity heritage: comparative study of hydrolat and essential oil. Rania Chahinez BOUHENNI, Koula DOUKANI, Hasna BOUHENNI. University of Relizane.
T2/P112	Phytochemical characterization of <i>Urtica dioica</i> L. leaves from the Chlef Region. Bakhtia MAMMERI, Mohamed KOUIDRI. Hassiba Benbouali University of Chlef.
T2/P113	Etude de l'extraction des composés phénoliques de deux extraits méthanoliques de <i>Moringa oleifera</i> et <i>Ridolfia segetum</i> : vers une lutte biologique pour un développement durable. Nesrine DAGHEFALI, Hayet MEAMICHE, Marwa SEFIANI, Hassiba BERRAÏ, Samia DAOUDI-HACINI. Ecole Nationale Supérieure Agronomique (ENSA), El Harrach, Alger.
T2/P114	Antibacterial effect of the essential oil of <i>Pimpinella Anisum</i> and <i>Cuminum Cyminum</i>. Amina BESSEDIK, Souheyla MEKRAF, Kamal NEDJARI, Ali BEN HADJ. Hassiba Benbouali University of Chlef.
T2/P115	Protective on renal endothelial cell, antioxidant and anti-inflammatory effects of «<i>Paronychia argentea</i>». Louiza ARKOUB, Naoual KHEYAR, Farida KHEYAR. Université de Bejaia.

T2/P116	Study of the Antibacterial Effect of <i>Urtica dioica</i> Essential Oil from the Chlef Region. Bakhtia MAMMERI, Khayra MEHIRI, Mohamed KOUIDRI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P117	Evaluation des propriétés antioxydantes et antiinflammatoires d'un extrait éthanolique issu de la partie aérienne d'<i>Erica arborea</i>. Leila GADOUCHE, Ouissem BOUZEMARNE, Sara MEKOUI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P118	Study of the sterol and alcohol fractions of Algerian argan oil from Tindouf. Imane DROUCHE, José Maria CASTELLANO. <i>Université de Blida1.</i>
T2/P119	Étude phytochimique et ethnobotanique de l'orge. Djanet Meriem BENMESSAHEL, Aicha MAGHARBI BENALI, Mohamed Ali BOUZIDI. <i>Université Djilali liabes, sidi bel Abbes.</i>
T2/P120	Assessment of the abundance of medicinal plants used in traditional medicine in the wilaya of Djelfa, specifically in the Barrage Vert area. Ilhame RABEHI, Mohamed GRANDI, Benchohra MAAMAR, Mohamed GRANDI. <i>University of Tiaret.</i>
T2/P121	Comparative analysis of the chemical constituents of different aqueous extracts of the <i>Cistanche phelypaea</i> (L.) Cout. from Algeria by LC/ESI-MS/MS. Meriem Zohra RAHIM, Bhakti PRINSI, Luca ESPEN, Tarek BENABDELKADER, Karim HOUALI. <i>Université M'hamed BOUGARA de Boumerdes.</i>
T2/P122	isolation characterization and filtration of lectins from <i>olea europea</i> leaves. Racha Rym AOUISSAT, Youcef NECIB, Monna BOUSAOULA, Salima BOUDANE. <i>University of Constantine 1.</i>
T2/P123	Evaluation of anti-inflammatory and antimicrobial activity of terpenoids of <i>Echium horridum</i> B. leaves extract. Selma GHIZLENE BOUKLIKHA, Hanane DIB, Meryem SELADJI, Safia BOUAZIZ, Mohamed Faysal YEZLI. <i>University of Tlemcen.</i>
T2/P124	Research and determination of organic acids in sesame (<i>Sesamum indicum</i>) oilcake. Radhia DERIOUCH, Sabah BOUKERIA, Saliha KHERIEF NACEREEDINE, Kenza KADI. <i>University Center of Mila.</i>
T2/P125	Antimicrobial Activity of Methanolic Extracts of <i>Salvia verbenaca</i> L. From Different Biotopes of the Region of Tiaret-Algeria. Salima MOUAZ, Koula DOUKANI, Hasna BOUHENNI, Duygu POLAT, Ufuk KOCA-CALISKAN. <i>Université Ibn Khaldoun, Tiaret.</i>
T2/P126	Hepatoprotective effect of the aqueous extract of <i>Artemisia campestris</i> : a histopathological study. Aymane ZOUANE, Mohamed ZAOUANI, Lynda AINOUI. <i>École Nationale Supérieure Vétérinaire, Alger.</i>
T2/P127	Effet de l'extrait éthanolique de romarin (<i>Rosmarinus officinalis</i>) sur la conservation du lait cru de vache. Lamia BOUSSADI, Abdellah RAHALI, Badre eddine MOUSSAOUI. <i>University of Msila.</i>
T2/P128	Évaluation in vitro du potentiel anticancéreux des extraits des tiges et feuilles de <i>Juniperus oxycedrus</i> subsp. <i>Oxycedrus</i>. Manel TERBECHE, Karima BENTAIBA, Amina TAHLAITI, Tawfiq BOUKHATEM, Ryme TERBECHE, Tomasz GEBAROWSKI. <i>Université de Mostaganem.</i>
T2/P129	Evaluation of the Insecticidal Effect of Inhaled Essential Oil of <i>Lavandula angustifolia</i> on <i>Tribolium castaneum</i>. Amina LATRECHE, Fairouz SAIDI, Abdelhak ROUBI. <i>University of Blida.</i>
T2/P130	Effet hypoglycémiant de l'<i>Hibiscus sabdarifa</i> L. Wahiba HAMZI. <i>Université de Saad Dahleb, Blida.</i>
T2/P131	Controlling the development of crop pests using aqueous extracts of Sage (<i>Salvia officinalis</i>). Fatma BOUSMAHA, Fatiha LABDELLI, Mira SEHARI, Amel HENNIA, malika SIFAOUI.

	<i>Ibn Khaldoun University of Tiaret.</i>
T2/P132	Antimicrobial potential of <i>Pistacia lentiscus</i> L.: extraction, preparation, and evaluation against clinical microbial strains. Asma AGGOUN, Souheila OUAMANE, Rim BOUMAIZA, Sana BOUNAB, Ikram BRAHIMI, Boutheyna CHEKIREL. <i>20th August 1955 University of Skikda.</i>
T2/P133	Mycochemical profiling of Algerian desert truffle and evaluation of their antihypercholesterolemic and anti-inflammatory activities. Marwa BOUASRIA, Samir NEGGAZ. <i>Université Ahmed Ben Bella, Oran 1.</i>
T2/P134	Antimicrobial and anti-inflammatory activities of hydro-methanolic extract from <i>Pistacia atlantica</i> Desf. Leaf-buds. Meryem LARABI, Assia BENMAHIEDDINE, Nabila BELYAGOUBI-BENHAMMOU, Larbi BELYAGOUBI, Nesrine Ouda Amari, Asma El Zerey-Belaskri, Angelo Gismondi, Valentina Nanni, Gabriele Di Marc, Antonella CANINI, Nouredine DJEBLI, Imane GHELLAI. <i>Abou Bekr Belkaid University of Tlemcen.</i>

Session 3 | 10:00 - 10:30

ROOM 2

Evaluators

- Dr. Nabila SOUILAH
- Dr. El-Hassen LANKRI
- Dr. Abdelaziz MEROUANE
- Dr. Khedidja BOUDOUR
- Dr. Soraya RAHMANI
- Dr. Yamina MAAMER SAMEUT
- Dr. Yamina ABDI
- Dr. Khaldia MEDJAHED
- Dr. Fawzia NEMAR

Code	Communication's Title / Authors / Affiliations
T2/P135	Effet de <i>Parietaria officinalis</i> sur la cristallisation de la brushite dans l'urine : Intérêt pour la phytothérapie. Noria KADA BENABDALLAH, Djamila HARRACHE. <i>Université de sidi Bel Abbés.</i>
T2/P136	Nanoencapsulation of <i>Lavandula stoechas</i> essential oil: characterization and evaluation of antioxidant activity. Djamila AOUAMEUR, Omar LARBI BOUAMRANE, Mustapha ZOUANTI, Besma BOUHOUIA, Fatiha zahra MEDDAH. <i>Université Djillali bounaama de khemis Miliana.</i>
T2/P137	Phytochemical profiling and discovery of bioactive natural compounds from a <i>resedaceae</i> species. Meriem AISSAOUI, Abderrahmane MEZRAG, Chahrazed ESSEID, Samir BENAYACHE, Fadila BENAYACHE, Ignacio BROUARD. <i>Saad Dahla University of Blida.</i>
T2/P138	Analyse phylogenetique et evaluation de la capacite antioxydante de fruits de deux cactus provenant de bejaia. Walid ZEGHBIB, Fares BOUDJOUAN, Asma OURABAH, Nacim BARACHE. <i>Université de Bejaia.</i>
T2/P139	Evaluation comparative d'extrait éthanolique de <i>Ficus carica</i> L avec <i>Olea oleaster</i>(L) et leurs activistes biologiques. Abderrahim MANSOUR, Imene YAHLA, Karim BENTAIBA, Abdelhafid NAN. <i>Université Abdelhamid Ibn Badis de Mostaganem.</i>

T2/P140	Exploration du potentiel antioxydant d'une plante toxique : le cas du rhizome d'<i>Atractylis gummifera</i>. Imane GHELLAI, Farah HADDOUCHI CHAOUICHE, Tarik Mohammed CHAOUICHE, Meryem LARABI. <i>Université de Tlemcen.</i>
T2/P141	Phytochemicals study, antioxidant and antitumor activities of hydromethanolic extract of <i>Opuntia ficus indica</i> cladodes. Khayra MEHIRI, Fatima NEHAL, Saadia BENELHADJ DJELLOUL, José LUIS. <i>University Hassiba Benbouali of Chlef.</i>
T2/P142	Profiling Phenolic and Flavonoid Compounds and Assessing Their Antioxidant Potential in Seeds of <i>Leucaena leucocephala</i>. Amira KORTI, Djilani GHEMAM AMARA, Ahmed Elkhailifa CHEMSA, Khayra MEHIRI. <i>University of El Oued.</i>
T2/P143	Contribution to the study of secondary metabolites and some biological activities of a plant of the genus <i>Cerithe</i>. Youcef BEN AICHA, Ouanissa SMARA, Mahdi BELGUIDOUM, Touhami LANEZ. <i>University of Ouargla.</i>
T2/P144	Effet antibactérien et hémolytique des molécules bioactifs obtenus à partir de la partie aérienne d'<i>Anacyclus valentinus</i>. Mohammed AISSAOUI, Samah Mounira NEHILI, Marwa Norhan ABBAD, Nadia AISSAOUI. <i>University of Tamanghasset.</i>
T2/P145	Exploration phytochimique de l'extrait n-butanolique d'une espèce de la famille des Fabaceae : identification et caractérisation de métabolites secondaires. Abderrahmane MEZRAG. <i>Université Saad Dahlab, Blida 1.</i>
T2/P146	Antibacterial Effect of <i>Anacyclus pyrethrum</i> L. Roots Extracts and Chemical composition of Essential oil. Aicha LASSOUANI, Boumediene MEDDAH, Houria MEDJDOUB, Asma BENAÏSSA, Aicha DERDOUR. <i>Higher Normal School of Mostaganem.</i>
T2/P147	Polyphenol and flavonoid content of <i>Thymelaea hirsuta</i> collected from Relizane region and its antioxidant potential. Sarrah ARABI, Keltoum DERMECH, Rachida RAHMANI, Sara GHERAÏBIA. <i>Ahmed Zabana University of Relizane.</i>
T2/P148	Biochemical study of male date palm (<i>Phoenix dactylifera</i> L.) leaflets in El M'ghair region, Algeria. Noura GHERAÏSSA, Bilal BENAMOR, Kaouthar GHENBAZI, Meriem BERRAMDANE, Linda RETIMA, Nezar CHERRADA, Ahmed Elkhailifa CHEMSA, Djilani GHEMAM AMARA, Adel CHALA. <i>University of El Oued.</i>
T2/P149	Screening Phytochimique et Analyse Quantitative d'<i>Artemisia herba-alba</i> de la Région de Biskra. Ammar Rachad MEDJDOUB, Romaïssa TERFAS, Ikram ZAZ, Younes BOUSALEME, Karima YAHIAOUI. <i>Université des Sciences et de la Technologie Houari Boumediene, Alger.</i>
T2/P150	Evaluation of phenolic compounds in <i>Cistus creticus</i> L. ariel parts and antioxidant power using TPC, FRAP assays. Hania AMRI, Chahrazed HAMMIA, Atika BOUBEKKA, Amar DJERIDANE, Mohamed YOUSFI. <i>Higher Normal School, Laghouat.</i>
T2/P151	Phytochemical study and evaluation of the anti-inflammatory activity of <i>Ruta .sp</i> from the northeastern of Algeria. Amira Randa Rimas MEZIANE, Hind FENGHOUR, Anane SEGHER, Raziqua DJAAFER MOUSSA, Nessrine MERHOUNE, Nasreddine BENABDESSELAM. <i>Echahid Chiekh Larbi Tebessi University of Tebessa.</i>
T2/P152	Phytochemical Composition of <i>Ceratonia siliqua</i> extracts with Pharmacological Assessments: Antibacterial and Anti-Ulcer Activities. Aicha LAÏSSAOUI, Hadjira CHEBAB, Amina ITATAHINE, Soumia TABTI. <i>Djilali Bounaama University of Khemis Miliana.</i>
T2/P153	Evaluation of the antiparasitic activity of <i>Moringa oleifera</i>. Amina ITATAHINE, Aicha Laïssaoui, Zakia Hadj-Benali, Soumia TABTI, Nawal TOUAHIR. <i>Djalili Bounaama University of Khemis Miliana.</i>
T2/P154	Ethnobotanical study of medicinal plants with cardiovascular

	effects in the Hammam Dalaa region (M'sila, Algeria). Karim MERABTI, Oussama AILAM, Mohamed AIT HAMMOU, Khellaf REBBAS. <i>Mohamed Boudiaf University of M'sila.</i>
T2/P155	Phytochemical characterization and biological activities of <i>Salvia balansae</i> native to Algeria. Nacera BOURIAH, Mohamed Djamel MIARA, Fatima Zohra ABDELJEBBAR, Nessrine BEDDIAR, Asmaa BENALLOU. <i>Tahar Moulay University of Saida.</i>
T2/P156	Evaluation of some biological activities of southern bugle (<i>Ajuga iva</i>). Hasna BOUHENNI, Koula DOUKANI, Salima MOUAZ. <i>University of Tiaret.</i>
T2/P157	Antimicrobial potential of biosynthesized silver nanoparticles: a natural alternative against pathogenic bacteria and fungi. Leila DJAHNIT, Rachid DELLALI, Fatima Zohra KERMAZLI, Samira MAOU, Fouzia OUADAH BENSALAH. <i>Université de chlef.</i>
T2/P158	Evaluation of the antioxydant and antidiabetic effect of <i>Berberis vulgaris</i>. Wafa KOUADRI BOUDJELTHIA. <i>University Hassiba Benbouali, Chlef.</i>
T2/P159	Evaluation of the Toxicity and Biological Potential of the Medicinal Plant <i>Rosmarinus officinalis</i> L. Awda NAAS, Djamel AITSAADA, Souhila MEKRAF. <i>Hassiba ben bouali university of Chlef.</i>
T2/P160	The effect of a byproduct extract on survival time of mice under hypoxia induced by NaNO_2. Moufida ABABOU, Halima SAIAH. <i>Hassiba ben boulai university of Chlef.</i>
T2/P161	Experimental evaluation of fenugreek sprouts as a natural anti-inflammatory agent against diclofenac in wistar rats. Zeyneb SADOK, Malika KOICHE, Assia NEHARI. <i>Hassiba ben boulai university of Chlef.</i>
T2/P162	L'effet de supplémentation du <i>Punica granatum</i> L sur quelques paramètres zootechniques et biochimiques chez le lapin. El-Hassen LANKRI, Khedidja BOUDOUR, Dalila AMOKRANE, Mohammed SEHNINE, Malika HACHI ILLOUL, Sihem ZIRI, Ibrahim BELABDI. <i>University Hassiba Benbouali Chlef.</i>
T2/P163	L'effet de l'hydrolat de <i>Ficus indica</i> sur le taux d'éclosion des oeufs. LANKRI EL-HASSEN, BOUDOUR KHEDIDJA, AMOKRANE DALILA, BOUHRUM NASSIMA, HACHI ILLOUL MALIKA, ZIRI SIHEM, BELABDI IBRAHIM, ABED REZIG DJAMEL. <i>University Hassiba Benbouali Chlef.</i>
T2/P164	Germination des graines de <i>Lavandula stoechas</i> de la forêt de Ténès sous traitement aux gibbérellines : implications pour la restauration écologique. Fatma Zohra HAMDANI, Djahida HEDIDI, Mohamed AROUS, Thouraya EL MAHI. <i>Université de Chlef.</i>
T2/P165	Evaluation of free radical scavenging activity in Citrus peels extracts from Algerian cultivars. Fadwa Yassamine TSOURI, Rachida ALLEM, Khayra ZERROUKI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P166	Activité anti-inflammatoire du chitosane dérivé de carapaces de crevettes associé ou non à des polyphénols de <i>Cynara scolymus</i> (L.). Meryem SADOUD, Nabil BOUZIANE, Sarra METLEF, Azdinia ZIDANE, Meriem MEDJEKANE, Ali RIAZI. <i>Université de Chlef.</i>
T2/P167	Ethnobotanical study of forest medicinal plants used in traditional medicine in north Africa. Case of Bissa forest, Chlef (Algeria). Nabila ZEMMAR, Nessrine BELMILOUD, Djahida HEDIDI. <i>Hassiba Benbouali University of Chlef.</i>
T2/P168	Antioxidant activities of essential oil, alcoholic and aqueous extracts of <i>Moringa oleifera</i> leaves. Fatiha ARIQUI, Safia ALI HAIMOUD, Amina DELMI BOURAS, Salima BOUDANE, Sara HERR, Fatima MAAMRI, Mouna SALEM.

	Hassiba Benbouali University of Chlef.
T2/P169	Effects of heavy metal-induced oxidative stress on rat brain tissue: an experimental study of biomarkers. Radja MEZAINI, Amina BEKARA. Université Hassiba Benbouali, Chlef.
T2/P170	Valeur nutritive, analyses phytochimiques des cladodes d'<i>Opuntia ficus indica</i> et leur effet sur les performances du poussin de chair. Khedidja BOUDOUR, Elhassen LANKRI, Dalila AMOKRANE, Malika HACHI ILLOUL, Malika MEZIANE Ahmed. Université Hassiba Benbouali, Chlef.
T2/P171	Anti-inflammatory and antimicrobial activities of <i>Chamaerops humilis</i> L. Chafika BELEHCENE. Université Hassiba Benbouali, Chlef.
T2/P172	Profiling of Polysaccharides and Bioactive Compounds in Blackberry and Blackberry Extract Residues Following Thermal Drying. Marwa lilham BRADA, Malika KOICHE, Malika MEZIANE Ahmed, Nacera HEDIA. Université Hassiba Benbouali, Chlef.
T2/P173	Protective effects of propolis extract on acute gentamicin-induced nephrotoxicity in mice kidney. Safia ALI HAIMOUD, Fatiha ARIOUI, Meriem MEDJEKANE, Leila ALI HAIMOUD, Khelifa BAHRI, Hanane BENABED, Ikram BOUDALI. Université Hassiba Benbouali, Chlef.
T2/P174	Phytochemical Study and Antioxidant Activity of the Methanolic Leaf Extract of <i>Arbutus unedo</i>. Ilyes El Hocine NOUAR, Mohamed MAATOUG, Nacéra BOURIAH, Fatima Zohra ABDEL DJEBBAR. Ibn Khaldoune university of Tiaret.
T2/P175	Anti-inflammatory and antioxidant and antifungal activity of <i>Myrtus communis</i> L. essential oil. Fouzia MOSTEFA SARI, Aicha LAISSAOUI, Nesrine ZAOUADI, Fadhela SADI. Djillali Bounaama University, Khemis Miliana, Algeria.
T2/P176	Phenolic composition, antioxidant and antimicrobial activity of Algerian olive oil. Sarrah METLEF, Azdina ZIDANE, Meryem SADOUD, Amine BENGAG, Aicha LAISSAOUI. Hassiba Benbouali university of Chlef.
T2/P177	The Ethnobotany of <i>Thymelaea hirsuta</i> L.: A Case Study from the Chlef Region, Algeria. Kamel NEDIARI BENHADJ ALI, Mohammed BOUZOUINA, Souheyla MEKRAF, amine GUEBLI, Farida ZIANE BERROUDJA. Hassiba Benbouali University of Chlef.
T2/P178	Étude de l'intoxication au cadmium, évaluation de l'effet prophylactique de l'extrait de <i>phillyrea augustifolia</i>. Chez le rat Wistar. Sélection de composés bioactifs à fort potentiel antioxydant par Docking moléculaire. (Etude Biochimique, Hématologique, Histologique) Abdelkrim BENNACER, Miloud SLIMANI. Université Dr. Moulay Tahar, SAIDA.
T2/P179	Chromatographic analysis and anti-radical activity of essential oil from the of <i>Ditrichia viscosa</i> L. roots Hichem MAHAMMEDI, Abdenour Boumechhour, Samira Mecherara-Idjeri University of Science and Technology Houari Boumediene (USTHB), Algiers, Algeria.
T2/P180	Extraction and dosage of mastic parietal polysaccharides Fatiha BRIKCI, Aicha BOUHAFSOUN, Hassiba BOKHARI, Abderrezak DJABEUR, IMENE Benbelkacem Université des Sciences et de la Technologie Mohamed Boudiaf d'Oran