

Université Mohamed Boudiaf - M'sila  
Faculté des sciences  
Département de Chimie



Le 2<sup>ème</sup> colloque national de chimie (CNC2@2024)  
6 - 7 mai 2024



# ATTESTATION DE PARTICIPATION

Le comité d'organisation du colloque atteste que :

## CHETOUANI Asma

A participé activement au colloque et a présenté une communication **Affiche (Poster)**

Intitulée: **Phytochemical study and antioxidant potential from various extracts from Thymus ciliatus ssp munbyanus : insights into natures antioxidant arsenal**

Co-auteurs : **Haffar Hichem, Kouka Asma, Mohamed Mebarek Amal**

Le Président du Séminaire  
**Dr. Abdelhakim KHENICHE**



Le Doyen de la Faculté des Sciences  
**Pr. Ettayib BENSACI**



# Phytochemical Study and Antioxidant Potential of Various Extracts from *Thymus Ciliatus ssp Munbyanus*: Insights into Nature's Antioxidant Arsenal

Asma CHETOUANI <sup>1\*</sup>, Hichem HAFFAR <sup>2</sup>, Asma KOUKA<sup>2</sup>, Amal MOHAMED MEBAREK<sup>2</sup>

<sup>1</sup>L.M.P.M.P. Dépt. Génie des procédés, Fac. Technologie, Univ. Ferhat Abbas-Sétif1. Sétif 19000, Algérie.

<sup>2</sup>Laboratory of inorganic materials LIM, Faculty of Sciences, University of M'sila, Algeria.

PO Box 166 Ichebilia, 28000 M'sila, Algeria

\*e-mail : [achetouani@hotmail.fr](mailto:achetouani@hotmail.fr)

## Abstract

Plants used in medicine are a source of bioactive molecules, which are secondary metabolites used as antioxidants, antimicrobials, and other biological activities.

Our work aims to highlight various crude methanolic and aqueous extracts from an endemic thymus species (*Thymus ciliatus ssp munbyanus*) from the Boussaâda region, as well as to assess their antioxidant properties using various methods, including DPPH radical scavenging ability, ferric iron reductase activity, and total antioxidant activity.

The prepared methanol and water extracts have produced very high yields, ranging from 14 to 30%. This explains the abundance of highly polarized metabolic compounds.

Additionally, phytochemical screening by various tests reveals the presence of numerous natural products, particularly polyphenols and flavonoids. The extract AQ2 has the highest polyphenol concentration and contains 73.589 mg EAG per gram of extract. However, the additional AQ1 and MeOH showed a high flavonoid content.

The evaluation of anti-radical power in comparison to the free radical DPPH reveals that the three extracts have a stronger antioxidative effect than the typical antioxidant BHT.

However, these extracts have shown a good ability to reduce Fe (III) ions, with IC<sub>50</sub> values of 274.77, 307.12, and 247.4 µg/ml for EAQ1, EMeOH, and EAQ2, respectively, which are at least higher than that of ascorbic acid (65.43 µg/ml).

Finally, AQ2 extract was found to be the best molybdate ion reducer, with an equivalent of 20.8 µg/mg extract.

## Keywords

*Thymus Ciliatus ssp Munbyanus*, polyphenols , flavonoids, antioxidant power.

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**Planning du Lundi 06/05/2024**

| <b>Horaire</b> | <b>SALLE DE CONFERENCE IBN ALHAITHAME</b><br>قاعة المحاضرات ابن الهيثم القطب الجامعي الجديد                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08h00–09h00    | <b>Inscriptions</b>                                                                                                                                       |
| 09h00–10h00    | <b>Cérémonie D'ouverture</b>                                                                                                                              |
| 10h00-10h30    | <b>Conférences plénières</b>                                                                                                                              |
| 10h30-11h45    | <b>Pr. ZEROUAL Larbi (Université de M'sila)</b><br>l'électrochimie au service de l'environnement                                                          |
| 10h30-10h45    | <b>Dr. EL HAMEUR Hacem (Université de Chlef)</b><br>Nano-bionique et santé des plantes                                                                    |
| 10h45-11h00    | <b>Dr. LADGHEM CHIKOUCHE Mohamed Djamel (Université de M'sila)</b><br>Chimie des huiles essentielles : Vers une aromathérapie plus rigoureuse et efficace |
| 11h00-11h15    | <b>Pause-Café</b>                                                                                                                                         |
| 11h15-11h30    | <b>Pr. AOUF Nour-Eddine (Université de Annaba)</b><br>Titre de communication : Chimie verte et développement durable                                      |
| 11h30-11h45    | <b>Pr. BRAHIMI Meziane (USTHB)</b><br>Modélisation Moléculaire et étude in silico en pharmacochimie : Applications aux anticancéreux et anti-SARS-CoV2    |

12H00 – 13H20

## DEJEUNER

Après-midi (Thème 01 et Thème 04)

### Session Orale:

| <u>Horaire</u> | <u>Salle 01</u>                                                                                                                                                              |                        | <u>Salle 02</u>                                                                                                                                     |                    |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                | <u>Titre</u>                                                                                                                                                                 | <u>Participant</u>     | <u>Titre</u>                                                                                                                                        | <u>Participant</u> |
| 13H30 – 13H45  | Natural medicines from plants: new molecules against old disease                                                                                                             | Atmani Djebbar         | An improved synthesis method for indenenes using $AlCl_3$ as catalyst                                                                               | Kheira Haïouani    |
| 13H45 – 14H00  | Study of Alpha-Amylase and Urease Inhibitory Activities of an Endemic Plant from the Genus <i>Salvia</i>                                                                     | Chahna Renda           | Nouvelle voie de synthese d'azabicyclo[4.4.0] nonanes                                                                                               | Bassou Djilali     |
| 14H00 – 14H15  | Exploring the protective properties of Epigallocatechin-3-gallate on Multiple Myeloma: In silico analysis of gene interactions, biological pathways and regulatory mechanism | Kadi Imededdine        | Formation of a nanoemulsion based on <i>Citrus aurantifolia</i> essential oil and evaluation of its antioxidant activity                            | Zahi Mohamed       |
| 14H15 – 14H30  | Study of a biological activity of an Algerian local plant                                                                                                                    | Laali Zineb            | Study of an essential oil <i>Laurus nobilis</i> , used as an alternative to chemical pesticides towards the non-target fish <i>Gambusia affinis</i> | Daas Nesma Abir    |
| 14H30 – 14H45  | Pharmaceutical properties and biological activities of leaf extracts and oil of Algerian <i>Petroselinum sativum</i> .                                                       | Benmekhbi Lotfi        | Efficient and Recyclable Catalysts for Adipic Acid Synthesis                                                                                        | Mouheb Lynda       |
| 14H45 – 15H00  | Profil phytochimique des extraits organiques de la partie aérienne de <i>Stachys osystrum</i> L. et recherche de l'activité antioxydante.                                    | Merah Soumia           |                                                                                                                                                     |                    |
| 15H00 – 15H30  | <u>PAUSE CAFÉ</u>                                                                                                                                                            |                        |                                                                                                                                                     |                    |
| 15H30 – 15H45  | Phytothérapie et la Covid 19                                                                                                                                                 | Chiali Charif Khadidja | Valorisation des déchets naturels par adsorption des polluants organiques                                                                           | Badis Dalila       |
| 15H45 – 16H00  | Evaluation de l'activité antioxydante des extraits du <i>Fraxinus excelsior</i> par voie électrochimique et enzymatique                                                      | Amamra Samra           | Study of the effectiveness with optical profilometer of organic inhibitors against corrosion wear in HCl acid of XC48 steel's surface               | Dakhouché Ikram    |
| 16H00 – 16H15  | Phenolic contents and antioxydant activity of the metnanolic extract of <i>Ilex aquifolium</i> species                                                                       | Aldjia Hadroug         | Chemical Composition of Some Medicinal Plants Growing in Algeria with Biological Properties                                                         | Haba Hamada        |
| 16H15 – 16H30  | Détermination de l'activité anti-inflammatoire par les méthodes électrochimiques.                                                                                            | Ahmed Bahloul          | Antitumor activity against MCF-7 Human Breast Cancer Cell Lines and in silico studies of some 3-(2-Oxo-2H-benzo[b][1,4]oxazin-3-yl)propanoates      | Hanane Mouada      |
| 16H30 – 16H45  | <i>Limoniastrum guyonianum</i> , a medicinal halophyte plant, promotes the detoxification of heavy metals such as nickel and reduces its heamatotoxicity in mice             | Benkhaled abderrahim   | Couamrin-pyrazol as potential anti Alzheimer agent                                                                                                  | Benazzouz Amina    |

## Session Poster -01- (P01-P58)

13H30 – 15H00

|     | Titre                                                                                                                                                     | Participant             |     | Titre                                                                                                                                                                                        | Participant              |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| P01 | Activité antioxydante d'une plante médicinale                                                                                                             | Bekka Ayoub             | P30 | Etude Phytochimique D'une <i>Cistaceae</i>                                                                                                                                                   | Smadi Abla               |
| P02 | Alternatives naturelles pour le contrôle de la teigne de la datte <i>Ectomyeloides ceratoniae zeller</i> : les huiles essentielles végétales              | Touahir Zineb           | P31 | <i>Phoenix dactylifera</i> L. date stone oil: Physicochemical characterization, antioxidant activity and bacterial inhibition                                                                | Freidja Mohamed Lamine   |
| P03 | Analyse phytochimique de l'extrait de <i>Cistus sp</i> : une plante médicinale algérienne utilisant la technique de chromatographie sur couche mince      | Samiha Ameer            | P32 | Etude phytochimique et activité antioxydante de <i>Lavandula officinalis</i> et la préparation des formes galéniques à usage externe                                                         | Mohamadi Sabrina         |
| P04 | Anti-hemolytic and Antioxidant properties of Ethyl acetate extract of <i>Arbutus unedo</i> L.                                                             | Laouicha Saliha         | P33 | Etude phytochimique et activité antioxydante des extraits de baies de myrte sauvage ( <i>Myrtus communis</i> L.)                                                                             | Salhi Rim                |
| P05 | Bioactivité des biopolymères extraits de la biomasse végétale                                                                                             | Boudjellal Djamel       | P34 | Etude phytochimique et évaluation de l'activité antioxydante d'une plante médicinale de la région du khenchela                                                                               | Bouaita Rayene           |
| P06 | Biological activities of phenolic compounds from <i>Cistus leaves</i> : in vitro and in silico mechanistic study                                          | Yacine Aouiffat         | P35 | Étude phytochimique et évaluation de l'activité anti-radicalaire de <i>Manihot esculenta</i> et <i>Ipomoea batatas</i> L.                                                                    | Boufadene Wassim         |
| P07 | Characterization; Quantification and Qualitative of the Phenolic compounds and antioxidant activity of an Algerian species                                | Chemam Yasmine          | P36 | Conservation des aliments par l'utilisation des bio-conservateurs (métabolites secondaires des plantes médicinales)                                                                          | Boussadi Lamia           |
| P08 | Chemical characterization, Anticancer and anti-inflammatory activities of extracts and their fractions from the <i>Apiaceae</i> family.                   | Belbachir Fatima Zohra  | P37 | Evaluation of the phytochemical and antioxidant activity of the methanolic extract of <i>Teucrium polium</i> L. from Tebessa (Algeria)                                                       | Lamari Sarra             |
| P09 | Chemical composition and antifungal activity of <i>Mentha</i> essential oils                                                                              | Ben Miri Yamina         | P38 | Essential oil composition, free radical scavenging activity and evaluation of the total phenol and flavonoid content of the aerial parts of an Algerian plant of the <i>Lamiaceae</i> family | Benelmufte Nour El Houda |
| P10 | Chemical composition of crude extract from the species <i>Evacidium Discolor</i>                                                                          | Tamersit Abdelbasset    | P39 | Evaluation of the antimicrobial activity of <i>Otospermum glabrum</i> extracts                                                                                                               | Hendel Noui              |
| P11 | Chemical composition of petroleum ether extract of <i>Hedysarum pallidum</i> species                                                                      | Hazine Kenza            | P40 | Extraction et quantification des polyphénols issus des extraits de margine : Préparation des nanoparticules d'argent                                                                         | Sabour Smain             |
| P12 | Etude phytochimique et évaluation des activités biologiques des extraits d'une plante médicinale <i>Rhamnus alaternus</i>                                 | Aichour Samira          | P41 | Formulation and physical characterization of creams containing aqueous extract of <i>Pélagonium graveolens</i>                                                                               | Belhaddad Oum Elkheir    |
| P13 | Complexes de Pt (II) et Pd (II) avec un ligand d'intérêt pharmaceutique : Synthèse, caractérisation spectrale, activité biologique et docking moléculaire | Bouchoucha Afaf         | P42 | Phytochemical study and recovery of the bark of <i>Punica granatum</i> L. harvested from the M'sila region, in oral hygiene product                                                          | Arieche Mounira          |
| P14 | Comparison of Phenolic Compound Extraction Techniques: Maceration vs Ultrasound, which is the best choice?                                                | Nafir Dalia             | P43 | In vitro evaluation of antioxidant activity of <i>Capparis Spinosa</i> buds extract                                                                                                          | Kherbach Abdallah        |
| P15 | Plantes utilisées pour les maladies bucco-dentaires dans la région de Sétif (Algérie) : Aspects ethnobotanique                                            | GHADBANE Mouloud        | P44 | Inventory of plants with allergenic pollen in the Maadid region (Msila, Algeria)                                                                                                             | Boubekeur Hafsa          |
| P16 | Étude des propriétés antibactériennes et la composition physicochimique de l'huile essentielle de Mélisse officinale                                      | Haffar Hichem           | P45 | L'activité Biologique De <i>Lavandula Officinalis</i> De La Région De M'sila                                                                                                                 | Meratate Faiza           |
| P17 | Polyphenols from the endemic species <i>convolvulus cantabrica (convolvulaceae)</i> .                                                                     | Khaledbenelwalid Mahdad | P46 | Les huiles essentielles de la <i>Retama sphaerocarpa</i> : une double action antioxydante et antibactérienne                                                                                 | Chetouani Asma           |
| P18 | Essential oil composition of <i>Daucus reboudii</i>                                                                                                       | Tahar Smaili            | P47 | Etude phytochimique de quelques plantes médicinales                                                                                                                                          | Turqui Tarik             |

|            |                                                                                                                                                           |                                 |            |                                                                                                                                      |                            |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>P19</b> | Étude, extraction et propriétés thérapeutiques de l'huile essentielle de <i>Lavandula Stoechas</i>                                                        | <b>Benazzouz Amina</b>          | <b>P48</b> | Phytochemical compounds analysis by GC-MS of Algerian cloves ( <i>Syzygium aromaticum</i> L.)                                        | <b>Benhamada Ouahiba</b>   |
| <b>P20</b> | Essentiel oil composition de <i>Bupleurum plantagenum</i>                                                                                                 | <b>Tahar Smaili</b>             | <b>P49</b> | Des Dhp Via Une Methode Verte                                                                                                        | <b>Mazari Tassadit</b>     |
| <b>P21</b> | Derivatives of carbohydrate Oxazoline from D-Glucosamine as a “green” substrate in the synthesis of complex ligands                                       | <b>Hocine Bouleghlem</b>        | <b>P50</b> | Etude de l'activité antioxydante et antibactérienne de la plante <i>Atriplex halimus</i>                                             | <b>Rahali abdallah</b>     |
| <b>P22</b> | Etude de l'activité antioxydante et anti inflammatoire de le ferruginol extraite de l'extrait de <i>Salvia argentea</i>                                   | <b>Ziane Safaa Nor El Houda</b> | <b>P51</b> | In vitro and in vivo study of anti-inflammatory effects of Ephedra alata                                                             | <b>Guettaf Sofiane</b>     |
| <b>P23</b> | Étude de la récupération d'un carburant à partir du PET par le procédé dit pyrolyse                                                                       | <b>Belkadi Sabrina</b>          | <b>P52</b> | Phytochemical study of the essential oil of <i>Deverra scoparia</i> from the Algerian northern Sahara                                | <b>Belabbassi Ouarda</b>   |
| <b>P24</b> | polyphenol dosage and antioxidant activities of the <i>Asteraceae</i> plant                                                                               | <b>Turqui Tarik</b>             | <b>P53</b> | Étude des propriétés antibactériennes et la composition physicochimique de l'huile essentielle de Mélisse officinale                 | <b>Haffar Hichem</b>       |
| <b>P25</b> | Type de répartition de la porosité et plaque sandwich FGM pour l'analyse vibratoire                                                                       | Bentrar Hakim                   | <b>P54</b> | Amélioration de la réponse caractéristique dynamique des poutres nanocomposites renforcées par des plaquettes FG-graphène            | <b>HOUALEF Ihab Eddine</b> |
| <b>P26</b> | Types of functionally graded material sandwich plates, and models of porosity distribution.                                                               | <b>Hakim BENTRAR</b>            | <b>P55</b> | Effect of volume fraction distribution on free vibration analysis of bi-functionally graded material sandwich elliptic plates        | <b>Hakim BENTRAR</b>       |
| <b>P27</b> | Regression modeling and process analysis of resistance spot welding parameters on the mechanical properties of heterogeneous sheets                       | <b>Ternane Fouad</b>            | <b>P56</b> | Etude de l'activité anti inflammatoire et hémolytique de la pulegone extraite de l'huile essentielle de <i>Satureja candidissima</i> | <b>Fellahi Manel</b>       |
| <b>P28</b> | Title: Free Vibration Analysis of Laminated Composite Plate Based on First Order Shear Deformation Theory Using C0 Continuity                             | <b>Belaidi Ayoub</b>            | <b>P57</b> | Materials Comparative Study Between Functionally Graded and Homogenous Spinning Shaft Of Free Vibration Analysis.                    | <b>MEZRAG AHMED</b>        |
| <b>P29</b> | Phytochemical study and antioxidant potential from various extracts from <i>Thymus ciliatus ssp munbyanus</i> : insights into natural antioxidant arsenal | <b>Chetouani Asma</b>           | <b>P58</b> | Anti-inflammatory activity of <i>Pulicaria odora</i> L. roots extracts.                                                              | <b>Lahouaou Amel</b>       |

## PAUSE CAFÉ

### Session Poster-02- (P01-P51)

| 15H30 – 17H00 |                                                                                                        |                              |            |                                                                                                                                                            |                       |
|---------------|--------------------------------------------------------------------------------------------------------|------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>P01</b>    | Screening de l'effet antibactérien et antibiofilm de l'huile essentielle de <i>Zingiber officinale</i> | <b>Djendi Manel Lina</b>     | <b>P27</b> | Investigation of the antimicrobial activity of nitrogen heterocyclic derivatives.                                                                          | <b>Fadli Soumya</b>   |
| <b>P02</b>    | Sterols from <i>Echium italicum</i> L. species                                                         | <b>Bekache Nour El-Houda</b> | <b>P28</b> | Synthesis, characterization and catecholase study of bidentate Schiff base derived from dehydroacetic acid                                                 | <b>Tabti Salima</b>   |
| <b>P03</b>    | The anti-inflammatory potential of <i>Anacyclus clavatus</i> acetonetic extract in vivo and in vitro   | <b>Kherbach Abdallah</b>     | <b>P29</b> | Development of cross-linked $\beta$ -cyclodextrin/clay/ captopril hybrid nanogels for stability innovation                                                 | <b>Salima Zidane</b>  |
| <b>P04</b>    | Studying of total antioxidant capacity of medicinal plant                                              | <b>Ghedjati Samira</b>       | <b>P30</b> | Valorisation des produits de la ruche: propolis                                                                                                            | <b>Teggar Naoual</b>  |
| <b>P05</b>    | Therapeutic effects of essential oils of some species from Algeria                                     | <b>Sarri Madani</b>          | <b>P31</b> | Synthèse et fonctionnalisation de quinoléines via la réaction de Michael                                                                                   | <b>Miloudi Yousra</b> |
| <b>P06</b>    | Total phenolic content and antioxidant activity of medicinal plant seeds                               | <b>Douffa Younes</b>         | <b>P32</b> | Copper (II) complex with sulfonamide derivative: synthesis, characterization, molecular docking and biological activities.                                 | <b>Merazka Hadjer</b> |
| <b>P07</b>    | Total phenols and free radical scavenging activities of a medicinal plant                              | <b>Belabas Nour El Houda</b> | <b>P33</b> | Elimination des colorants des eaux usées de l'industrie textile : une approche durable grâce à l'adsorption sur des biochars issus de phragmites australis | <b>Melouki Soriya</b> |

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|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>P08</b> | Phytochemical profile, antioxidant activity and cholinesterase inhibition potential of aqueous extract of <i>Berberis vulgaris</i> leaves.                         | <b>Nouri Allaoua</b>           | <b>P34</b> | Etude du pouvoir inhibiteur de la corrosion de l'acier en milieu acide en utilisant des extraits issus de prunus armeniaca l                       | <b>Kenza Bouchelouche</b>   |
| <b>P09</b> | A biomolecule and another chemical: two allies for a new track to access new anticancer drugs                                                                      | <b>Nabila yasmina Aouina</b>   | <b>P35</b> | Catecholase evaluation of new schiff base derivate from 4-hydroxy-2h-pyran-2-one                                                                   | <b>Louaileche Tinhinane</b> |
| <b>P10</b> | Phytochemical study and biological potency of the medicinal plant: <i>Bassia indica</i>                                                                            | <b>Oumkalthoum Brahimi</b>     | <b>P36</b> | Study of Thiosemicarbazone Derivative as an Eco-Friendly Corrosion Inhibitor for XC70 Steel in Hydrochloric Acid                                   | <b>Houda Cheraitia</b>      |
| <b>P11</b> | Valorization of the biological activities of <i>Solanum laeagne folium</i> and <i>Eryngium campestre</i>                                                           | <b>Meratate Faiza</b>          | <b>P37</b> | Synthèse et caractérisation d'une membrane destinée aux piles à combustible à échangeuse de protons                                                | <b>Ahmed Bahloul</b>        |
| <b>P12</b> | Phytochemical investigation of the species <i>Phillyrea angustifolia</i>                                                                                           | <b>Makhlouf Djouhaina</b>      | <b>P38</b> | Radical scavenging activity and ferric ion reducing power of medicinal plant's leaves extract                                                      | <b>Azzi Nadjat</b>          |
| <b>P13</b> | Place of plant-based anticancer drugs in the fight against cancer                                                                                                  | <b>Nabila yasmina Aouina</b>   | <b>P39</b> | Synthesis, characterization, dft calculations, and biological activity of a mixed complex of silver(i) with furosemide and l-histidine ligands     | <b>Talhi Hadjer</b>         |
| <b>P14</b> | Assessing the in vitro anti-arthritis and iron chelation properties of nettle crude extract                                                                        | <b>Kemchache Hamza</b>         | <b>P40</b> | Synthesis of schiff base hydrazones containing quinoxaline moiety as derivative as potential $\alpha$ -glucosidase inhibitors                      | <b>Boumati Anissa</b>       |
| <b>P15</b> | The effect of using palm-waste as substrate on mushroom's quality                                                                                                  | <b>Lamraoui Ghada</b>          | <b>P41</b> | Green oxidation of olefins with hydrogen peroxide catalyzed by an Oxovanadium (IV) Schiff base complex: An experimental and theoretical approach   | <b>Boucherabine Djihed</b>  |
| <b>P16</b> | Synthèse de la dihydropyridine via la réaction de hantzsch en utilisant le h3pmo12o40                                                                              | <b>Gaad Fella</b>              | <b>P42</b> | Density functional theory analysis of some characterized 5d metallocorrole complexes                                                               | <b>Benkouider Imen</b>      |
| <b>P17</b> | Synthèse, caractérisation et activité biologique du complexe de zn(ii) avec la prednisolone.                                                                       | <b>Tidjani-Rahmouni Nabila</b> | <b>P43</b> | Synthesis , characterization and application of a novel heterocyclic derivatave of "dha"                                                           | <b>Attou Zineb</b>          |
| <b>P18</b> | Synthesis of ethyl pyruvate -4,4'-dihydrazonodiphenylsulfone and separation of geometrical isomers: a step towards the development of potent antibacterial agents. | <b>Melouki Soriya</b>          | <b>P44</b> | In Vitro Assessment of ferrous iron chelating and Inhibition of albumin denaturation Assays by Methanol Extract from Amaranthaceae Medicinal Plant | <b>Kaouane Khalil</b>       |
| <b>P19</b> | Traditional use and bioactive substances of some exotic plants from the m'sila city                                                                                | <b>Sarri Madani</b>            | <b>P45</b> | Development and production of fluorescent and polyfunctional 2-pyridones                                                                           | <b>Amel BELKADI</b>         |
| <b>P20</b> | Obtaining, Characterization and Use of a Local Plant in the Field of Cosmetics.                                                                                    | <b>Khennaoui Badis</b>         | <b>P46</b> | Recyclable bismuth (iii) tosylate-catalyzed one pot synthesis of 2-substituted benzimidazoles derivatives                                          | <b>Miloudi Yousra</b>       |
| <b>P21</b> | Molecular docking study and anticholinesterase inhibition of cyclosulfamide derivatives                                                                            | <b>Bouzina Abdeslem</b>        | <b>P47</b> | The temperature impact on corrosion inhibition of C45 carbon steel in 1M HCl medium by new Schiff base                                             | <b>Djedi Fikri</b>          |
| <b>P22</b> | Triterpènes de l'espece endemique vicia onobrychioides (fabaceae).                                                                                                 | <b>Fatima Belahssini</b>       | <b>P48</b> | Synthèse et caractérisation d'une électrode à base de bioxyde de manganèse                                                                         | <b>Ahmed Bahloul</b>        |
| <b>P23</b> | Détection des ions métalliques dans l'eau par des bases de schiff                                                                                                  | <b>Amina Alouache</b>          | <b>P49</b> | Evolution of the properties of a corrosion inhibitor film under the influence of temperature                                                       | <b>Debab Houria</b>         |
| <b>P24</b> | Cuprous oxide (Cu2O)/FTO nanostructures for electrocatalytic hydrogen evolution reaction                                                                           | <b>Abid Imene</b>              | <b>P50</b> | Anticorrosive effect of an organic molecule towards steel in an aggressive medium                                                                  | <b>Kaabi Ilhem</b>          |
| <b>P25</b> | Synthesis, Characterization, nonlinear optical properties (NLO) of Novel conductive polymer.                                                                       | <b>Arbouz Imene</b>            | <b>P51</b> | New mixed-ligand complexes of manganese (ii) and nickel (ii) containing urea and thiourea                                                          | <b>Sabeg Yasmina</b>        |
| <b>P26</b> | Synthesis of quinoxaline containing thiazole moiety derivative as potential cholinesteras inhibitors                                                               | <b>Boumati Anissa</b>          |            |                                                                                                                                                    |                             |

# Planning du Mardi 07/05/2024

**Matinée** (Thème 02 et Thème 03)

## Session Orale 01:

| Horaire       | Salle 01                                                                                                                                  |                    | Salle 02                                                                                                                                          |                  |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|               | Titre                                                                                                                                     | Participant        | Titre                                                                                                                                             | Participant      |
| 08H30 – 08H45 | The role of the donor and acceptor substitutions in tuning the photovoltaic properties of dye sensitized solar cells: Computational study | Bourouina Assia    | A new method for preparing Mg/SBA15 composite with enhanced photocatalytic degradation of malachite green                                         | Daoudi Chahrazed |
| 08H50 – 09H05 | Unveiling the Anti-Inflammatory Properties of Azaflavanones Derivatives through Molecular Docking Simulations                             | Haddad Djawhara    | DFT study of the electronic structure and optical properties of the double perovskites $X_2AgSbCl_6$ ( $X = Cs, Rb$ )                             | Merrad Amel      |
| 09H10 – 09H25 | A Virtual Screening Study of 4-iminoflavan Derivative as an Anti-Inflammatory Agent Targeting Mitogen-Activated Protein Kinase 1 (MAPK1)  | Hamache Thinhinane | Synergy of adsorption and solar photoreduction for removal Cr(VI) with spinel $CuFe_2O_4$                                                         | Benaissa Sihem   |
| 09H30 – 09H45 | Extraction d'un colorant cationique à l'aide d'une membrane liquide émulsifiée. Mise en œuvre d'une stratégie de criblage                 | Khelifa Sonia      | Elimination of chromium (VI) by adsorption on the lamellar double hydroxides (LDHs)                                                               | Chemache Zohra   |
| 10H00 – 10H30 | <b><u>PAUSE CAFÉ</u></b>                                                                                                                  |                    |                                                                                                                                                   |                  |
| 10H30 – 10H45 | L'étude théorique des descripteurs de la réactivité d'un herbicide modèle Linuron                                                         | Kaoua Ahlem        | Comparative study of wastewater treatment with local "Maghnia" bentonite and hydrated aluminum sulfate                                            | Khelladi Malika  |
| 10H50 – 11H05 | Ab initio calculations of structural, electronic and elastic properties for the cubic antiperovskite $K_3BrO$ under pressure effect       | Kerbiche Hind      | Characterization and biodegradation of PEHD based bio composites                                                                                  | Zighed Mohammed  |
| 11H10 – 11H25 | Linking molecular docking and protein MAPk 14 activity anti inflammatory of B-eudesmol: untraveling the interactions                      | Ouladali Halima    | Etude Comparative : Vitrocéramiques Poreuses vs. Vitrocéramiques Solides en Dentisterie                                                           | Houicha Haroun   |
| 11H30 – 11H45 | Removal of methylene blue and phenol using activated carbon prepared from Palm fronds                                                     | Messaoud Soumaya   | Deposition of Al-doped ZnO Nanostructured Thin Films on Flexible PEN Substrates Through RF-Magnetron Sputtering using Nanopowder Target for ..... | Hamrit Samir     |

**08H30 – 10H00**

|            | <b>Titre</b>                                                                                                                                            | <b>Participant</b>           |            | <b>Titre</b>                                                                                                                                                                | <b>Participant</b>              |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>P01</b> | Computational study On binding interaction of Rhodamine B DNA bases pairs: structure activity                                                           | <b>Abtouche Soraya</b>       | <b>P31</b> | Elaboration and characterization of a composite material reinforced by plant fibers                                                                                         | <b>Zitouni Khalida</b>          |
| <b>P02</b> | Analyses topologiques quantiques de condensation des benzoxazépines                                                                                     | <b>Benabila Nabila</b>       | <b>P32</b> | Elaboration of ZnO and CdS Thin Films and study their Physical and Chemical Properties.                                                                                     | <b>Hamza Djamel Eddine</b>      |
| <b>P03</b> | Analyses topologiques quantiques de condensation des Quino [2,3-b][1,5] benzoxazepine                                                                   | <b>Benabila Nabila</b>       | <b>P33</b> | Structural, electronic and elastic properties of LaC2 intermetallic compounds                                                                                               | <b>Mebarki Djalel</b>           |
| <b>P04</b> | Molecular docking prediction of isolated flavonoids from Hyacinthoides lingulata against Alzheimer's disease: Cholinesterase receptors (AChE and BuChE) | <b>Benramdane Zeyneb</b>     | <b>P34</b> | Study and modeling if thé cibacron blue Dye elimination by Coagulation/Floculation process                                                                                  | <b>Chenna Malika</b>            |
| <b>P05</b> | DFT study of antioxidative properties of some Schiff bases with different free radicals                                                                 | <b>Boudiaf Habiba</b>        | <b>P35</b> | Kinetics of photocatalytic degradation of methylene blue dye in aqueous medium using NiO nano composite                                                                     | <b>Benouali Mohamed Elamine</b> |
| <b>P06</b> | Vitamins, cancer, and oxidative stress: an application of docking molecular                                                                             | <b>Bouraoui Rania</b>        | <b>P36</b> | Elaboration and characterization of economic membrane supports for microfiltration applications.                                                                            | <b>Melki Tarek</b>              |
| <b>P07</b> | Synthesis, structural, spectroscopic characterization, and hirshfeld surface analysis (hsa) of the benzyl-derived compound.                             | <b>Boutouil Ines</b>         | <b>P37</b> | New phosphate-Co-Mn solid solution: structure and properties                                                                                                                | <b>Khouloud Torche</b>          |
| <b>P08</b> | First-principles calculations of structural and electronic properties of FeSb2O6                                                                        | <b>Charif Rania</b>          | <b>P38</b> | Exploitation des propriétés absorbantes de la vermiculite dans le domaine traitement des eaux                                                                               | <b>Meftah Lamya</b>             |
| <b>P09</b> | Quantum Mechanical Study of Complexation of 2-aminofluorene with $\beta$ -Cyclodextrin                                                                  | <b>Djilani Imene</b>         | <b>P39</b> | Etude de la cinétique de reconstruction d'argile anionique de types MgAlCO <sub>3</sub> (R=3)                                                                               | <b>Bahah Salah</b>              |
| <b>P10</b> | Study of Anti-Alzheimer's Disease by Molecular Modeling Methods                                                                                         | <b>Ferdaous Hasni</b>        | <b>P40</b> | Impact of chemical treatments on the characteristics of polyethylene composites reinforced with palm fibres.                                                                | <b>Nouioua Nour Elhouda</b>     |
| <b>P11</b> | The Crystal Structure, Hirshfeld Surface interactions, optical/Nonlinear Optical properties and evaluation of the antioxidant activity of .....         | <b>Ghichi Nadir</b>          | <b>P41</b> | Synthesis of iron copper phosphate catalyst for the synthesis of heterocycles                                                                                               | <b>ABBOU Sarra</b>              |
| <b>P12</b> | Identification of approved drugs with ALDH1A1 inhibitory potential aimed at enhancing chemotherapy sensitivity in cancer cells: an in-silico ....       | <b>Guendouzi Abdelmadjid</b> | <b>P42</b> | Etude des différents changements qui proisent dans un biocomposite renforcé avec un type de fiber naturelle                                                                 | <b>Nouioua Nour Elhouda</b>     |
| <b>P13</b> | A DFT study on the antioxidant activity and electronic properties of derivatives of methylphenylphenols                                                 | <b>Khelifi Roumaissa</b>     | <b>P43</b> | Structural Properties of Ga <sub>2</sub> O <sub>3</sub> Thin Films by Spin-coated                                                                                           | <b>Messeddek Lobna</b>          |
| <b>P14</b> | Theoretical and experimental investigations of the physic-chemical properties of trihexyl (tetradecyl)phosphonium dicyanamide ...                       | <b>Kiche Rima</b>            | <b>P44</b> | Valorisation des déchets solides liés au ciment par leur recyclage en granulats intégrés dans l'industrie du béton, contribuant ainsi à la préservation de l'environnement. | <b>Allal Meftah</b>             |
| <b>P15</b> | First principal investigation of mixed oxide's structural, electronic, and optical properties                                                           | <b>Labdi Chams Edoha</b>     | <b>P45</b> | The effect of rutile titanium dioxide pigment on the thermophysical properties of glassy polymers                                                                           | <b>Dadache Derradji</b>         |
| <b>P16</b> | Etude 3d-qsar, docking moléculaire et criblage admet pour des inhibiteurs potentiels de la cathepsine b.                                                | <b>Lachache Sabira</b>       | <b>P46</b> | Delamination behavior of a bidirectional composite with vegetable fibers.                                                                                                   | <b>Benhamadouche Lamia</b>      |
| <b>P17</b> | Etude théorique du complexe zinc pyrithione : un antimicrobien doté de qualité pharmaceutique                                                           | <b>Lafifi Ismahane</b>       | <b>P47</b> | Study of Structural and Optical Properties of Copper Oxide Thin Films Prepared by Sol-Gel Spin-Coating Method                                                               | <b>Allali Djamel</b>            |

|            |                                                                                                                                                                         |                                |            |                                                                                                                                                                                                      |                        |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>P18</b> | Réactivité et interactions intermoléculaires dans le système emodine @ $\beta$ -cd                                                                                      | <b>Merabet Noura</b>           | <b>P48</b> | Morphological and optical properties of Al/Ag doped ZnO nanostructures prepared by co-precipitation method                                                                                           | <b>Nesrin Bouteraa</b> |
| <b>P19</b> | Computational valorization of terpenoids as possible inhibitors of ebola virus vp24 using virtual screening technique                                                   | <b>Messaoui Mohamed Mouadh</b> | <b>P49</b> | Adsorption d'un colorant azoïque (Acide Rouge) sur des nanocomposites (PMMA/Organo-Vermiculites)                                                                                                     | <b>Belhoul Hamoudi</b> |
| <b>P20</b> | Comparative 2D-QSAR modeling of anti-cancer agents activity of benzoxaboroles derivatives using MLR, PLS and ANN techniques and molecular docking                       | <b>Oukacha Guendouzi</b>       | <b>P50</b> | Processus d'adsorption du colorant méthylorange sur un charbon actif mésoporeux et microporeux                                                                                                       | <b>Cherdoud Firouz</b> |
| <b>P21</b> | Stereochemical study and Molecular Docking of Some Fluoroquinolones Antibiotics Via Polysaccharides as Chiral Selector                                                  | <b>Rebizi Mohamed Nadjib</b>   | <b>P51</b> | Valorisation d'une biomasse par activation chimique par $\text{ZnCl}_2$ et $\text{H}_3\text{PO}_4$ : l'étude de l'influence de l'agent activant pour l'élimination d'un perturbateur endocrinien bpa | <b>Noufel Kamel</b>    |
| <b>P22</b> | Pharmacophore -BASED virtual screening studies and in-silico ADME analysis for identify new leads for inhibition of E6 against cervical cancer                          | <b>Salma Boulahia</b>          | <b>P52</b> | Treatment of wastewater from the city of M'sila                                                                                                                                                      | <b>Rahla miloud</b>    |
| <b>P23</b> | Etude théorique d'un médicament antituberculeux- Pyrazinamide- par une modélisation moléculaire.                                                                        | <b>Samai Salima</b>            | <b>P53</b> | Étude des performances mécaniques des matériaux composites à base de sciure de bois                                                                                                                  | <b>Mouissa Fadhila</b> |
| <b>P24</b> | In silico studies on novel inhibitors of antiamebic activity against HM1: IMSS strain of E. histolytica: Pharmacophore Generation, 3D-QSAR study and Molecular Docking. | <b>Samir Bouacha</b>           | <b>P54</b> | L'étude et la caractérisation des propriétés physicochimiques et des composants minéraux des matériaux argileux naturels.                                                                            | <b>Larkat Karima</b>   |
| <b>P25</b> | Theoretical investigations on electronic structure of $\text{CeSiO}_4$                                                                                                  | <b>Selmi Oumnia Racha</b>      | <b>P55</b> | Synthesis and characterization of organo acid activated bentonite /alginate composite to improve its effective elimination of endocrine disrupter from wastewater                                    | <b>Noufel Kamel</b>    |
| <b>P26</b> | Aromatic synthesis Aromatic Hydrazone Compounds: Organic synthesis, structural analysis , and Computational Analysis, Exploration ...                                   | <b>Touahria Youcef Islam</b>   | <b>P56</b> | Valorisation et élaboration d'un polymère polyester par fibre d'Alfa                                                                                                                                 | <b>Aris Serine</b>     |
| <b>P27</b> | Saponins from Zygophyllum: In Silico Assessment of Antileishmanial Activities                                                                                           | <b>Bentameur Boumediene</b>    | <b>P57</b> | Valorization and chemical treatment of Cynodon fiber using sodium hydroxide/unsaturated polyester                                                                                                    | <b>Laib Nouri</b>      |
| <b>P28</b> | Etude théorique de la dégradation des colorants                                                                                                                         | <b>Taharchaouche Djamel</b>    | <b>P58</b> | Etude et caractérisation d'une fibre végétale/polyester insature.                                                                                                                                    | <b>Laib Nouri</b>      |
| <b>P29</b> | Influence of fiber treatments on mechanical ,chemical, thermal and morphological properties of Esparto grass (Stipa tenacissima).                                       | <b>Bouchareb Samira</b>        | <b>P59</b> | Elaboration d'un nouveau procede de production de carburant a partir de dechets plastique.cas de la thermolyse du pe et pp                                                                           | <b>Attoui Warda</b>    |
| <b>P30</b> | Etude theorique des proprietes spectroscopique des edulcorants: aspartame et neotame                                                                                    | <b>Sara cherifa bennedjai</b>  |            |                                                                                                                                                                                                      |                        |

**PAUSE CAFÉ**

## Session 02 Poster (P01-P50)

10H30 – 12H00

|            |                                                                                                                                                                        |                            |            |                                                                                                                                                                                                       |                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>P01</b> | Analysis of Stresses and Boundary Conditions in Unidirectional Jute-Reinforced Polymer Composites: A Tensile Testing Approach and Finite Element Modeling              | <b>Saada Khalissa</b>      | <b>P26</b> | Synthesis and characterization of chitosan beads                                                                                                                                                      | <b>Mersel Ledia</b>      |
| <b>P02</b> | Thermoset epoxy's effect on the mechanical and interfacial bonding strength of inula viscosa fibers after permanganate and alkali treatments                           | <b>Moussaoui Nafissa</b>   | <b>P27</b> | Adsorption des colorants synthétiques sur un biomatériau                                                                                                                                              | <b>Mehennaoui Rayane</b> |
| <b>P03</b> | Utilisation des activateurs chimiques avec des déchets industriels pour créer des matériaux composites                                                                 | <b>Omri Imen Yamina</b>    | <b>P28</b> | Photocatalytic degradation of rhodamine b by using an new bio-catalysis                                                                                                                               | <b>Charif Majda</b>      |
| <b>P04</b> | Synthesis, Structural Characterization, and Application of Four Rhodanine Derivatives as Dyes in Solar Cells                                                           | <b>Hamana Haoua</b>        | <b>P29</b> | Dégradation du colorant azoïque E110 en solution aqueuse par le persulfate                                                                                                                            | <b>Nadjma Lahmar</b>     |
| <b>P05</b> | Self-floating titanium dioxide co-doped ferrihydrite /diatomite hybrid granule with enhanced responsive photoactivity and reusability                                  | <b>Rezig Walid</b>         | <b>P30</b> | Valorisation d'une biomasse par activation chimique par $\text{ZnCl}_2$ et $\text{H}_3\text{PO}_4$ : l'étude de l'influence de l'agent activant pour l'élimination d'un perturbateur endocrinien bpav | <b>Noufel Kamel</b>      |
| <b>P06</b> | Caractérisation électriques des composites à base de l'éponge PU et $\text{ZnO-Fe}$                                                                                    | <b>Saidi Malika</b>        | <b>P31</b> | Treatment of wastewater from the city of M'sila                                                                                                                                                       | <b>Rahla Miloud</b>      |
| <b>P07</b> | Elaboration et caractérisation d'un biocomposite kératine/10%-NPs d'argent. Application: detection de la vapeur d'éthanol.                                             | <b>Douani Rachida</b>      | <b>P32</b> | Preparation and Characterization of Activated Carbon Derived from Palm Residue using Chemical Activation for Enhanced Adsorption Capacity                                                             | <b>Sabah Djaber</b>      |
| <b>P08</b> | Elaboration d'un capteur piézoélectrique à base de kératine/fibre de carbone pour la récupération d'énergie                                                            | <b>Hammouche Hayat</b>     | <b>P33</b> | Removal of Heavy Metals from wastewater by Coal.                                                                                                                                                      | <b>Sadaoui Loubna</b>    |
| <b>P09</b> | Ab Initio Investigation of Physical Properties of Anti-perovskite Based material Rare Earth And Scandium                                                               | <b>Kadri Asma</b>          | <b>P34</b> | La photodégradation d'orange de méthyle sur le semi-conducteur dioxyde de titane : l'étude de l'effet pH solution                                                                                     | <b>Salmi Somia</b>       |
| <b>P10</b> | The effects of zinc acetate, zinc chloride and sulfate zinc precursors on the preferred crystalline orientation of $\text{ZnO}$ thin films obtained by SILAR technique | <b>Mokrani Nourelhouda</b> | <b>P35</b> | Innovative Water Treatment Technologies: The Role of Nanofilters and Nanocomposites in Pollutant Elimination                                                                                          | <b>Selg Hanane</b>       |
| <b>P11</b> | Study of Structural and Optical Properties of $\text{MnO}_2$ thin films by Sol-gel spin coating Method                                                                 | <b>Siassi Abderrahim</b>   | <b>P36</b> | Adsorption of dye using activated carbon                                                                                                                                                              | <b>Telhas Djihad</b>     |
| <b>P12</b> | Non-destructive Characterization of Lygeum spartum/PLA bio-composite Using Impulse Excitation Technique (IET)                                                          | <b>Benabderazag Khalil</b> | <b>P37</b> | Novel Biogenic Synthesis of a Silver-Biochar of Punica Granatum L Nanocomposite as an Antimicrobial Agent and Photocatalyst for Methylene Blue Degradation.                                           | <b>Telli Hayet</b>       |
| <b>P13</b> | Removal of nitrates using biochar prepared from date stones                                                                                                            | <b>Djezzar Rima</b>        | <b>P38</b> | Application of low-cost adsorbents for dye removal                                                                                                                                                    | <b>Telli Samiya</b>      |
| <b>P14</b> | Biodégradation d'un fongicide (méthomyle) par une souche bactérienne Aeromonas hydrophila isolées des eaux de surface contaminée par des pesticides                    | <b>Aimeur Nadjette</b>     | <b>P39</b> | Synthesis of carbon activated from palm biomass by thermochemical activation                                                                                                                          | <b>Tiaiba Wafa</b>       |
| <b>P15</b> | Acetaminophen Removal from Aqueous Solution using Biochar:Kinetic Study.                                                                                               | <b>Akacha Imane</b>        | <b>P40</b> | The effect of magnesium silicate on the thermal and other properties of forsterite ceramics from nano-powder                                                                                          | <b>Khadidja Laziri</b>   |
| <b>P16</b> | Étude de l'influence des paramètres électriques d'un réacteur continu sur l'élimination de la couleur et de la turbidité d'un effluent synthétique                     | <b>Amour Abdallah</b>      | <b>P41</b> | Synthesis and characterisation of medium-entropy zirconate nanopowders                                                                                                                                | <b>Khawla Djilat</b>     |

|                        |                                                                                                                                         |                             |            |                                                                                                                    |                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|--------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>P17</b>             | Sustainable textile dye treatment exploring the influence of Basic Fuchsin concentrations on Fenton process efficiency                  | <b>Aouni Saoussen Imene</b> | <b>P42</b> | Adsorption des nitrates dans les eaux sur une argiles locale(bousaada) pontees organophiles                        | <b>Hammou Zoubida</b>   |
| <b>P18</b>             | The structural and morphological properties of ZnO nanorods grown by SILAR technique: Impact of film thickness                          | <b>Barkat Hadjer</b>        | <b>P43</b> | Carbon textile electrodes modified with RGO and Pt nanoparticles for the removal of atrazine from water            | <b>Hamous Hanene</b>    |
| <b>P19</b>             | Etude de l'adsorption d'un colorant synthétique sur des matériaux méso-poreux modifiés                                                  | <b>Belabed Ahlam</b>        | <b>P44</b> | Caractérisation et valorisation agricole et énergétique des boues urbaines de la station d'épuration de Sidi Aïssa | <b>Herizi Achwaq</b>    |
| <b>P20</b>             | Optimization of anionic dye adsorption parameters using response surface methodology                                                    | <b>Bessaha Gania</b>        | <b>P45</b> | Copper Activation of Materials « Galena » and Xanthate « KEX » Collectors Adsorption                               | <b>Koriche Ibtissem</b> |
| <b>P21</b>             | Evaluation of the economic performance of a concentrated solar power plant in M'Sila (northern Algerian region)                         | <b>Bouchareb Khaled</b>     | <b>P46</b> | Amélioration de l'assainissement des sols pollué                                                                   | <b>Marwa Barchiri</b>   |
| <b>P22</b>             | Removal of malachite green dye from aqueous solution using Nickel Oxide (NiO) nanoparticles as adsorbent                                | <b>Boughaita Imen</b>       | <b>P47</b> | Élaboration d'un matériau nanostructuré à base de Fe par mécanosynthèse                                            | <b>Debboub Salima</b>   |
| <b>P23</b>             | Comparaison de l'efficacité de Canna indica et Typha latifolia dans le traitement des eaux usées domestiques par des zones humide ..... | <b>Zorai Ameer</b>          | <b>P48</b> | Manufacturing and characterization of polymer concrete using dune sand and waste plastic                           | <b>Mekideche Salih</b>  |
| <b>P24</b>             | Environmentally friendly corrosion inhibition of carbon steel                                                                           | <b>Khadidja Berarma</b>     | <b>P49</b> | Étude de l'adsorption du violet de gentiane sur la bentonite naturel                                               | <b>Thouria Benzaoui</b> |
| <b>P25</b>             | Importance des plantes cultivée dans l'écosystème urbain (valorisation et autoécologie)                                                 | <b>Rabah bounar</b>         | <b>P50</b> | <u>Adsorption des sous-produits de chloration (SPC) dans l'eau potable</u>                                         | <b>Kamel Noufel</b>     |
| <b>12H00 – 13H20</b>   |                                                                                                                                         |                             |            |                                                                                                                    |                         |
| <b><u>DEJEUNER</u></b> |                                                                                                                                         |                             |            |                                                                                                                    |                         |

## Après-midi (Thème 02 et Thème 03)

### Session Orale 02:

| Horaire       | Salle 01                                                                                                                     |                       | Salle 02                                                                                                                         |                |
|---------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|
|               | Titre                                                                                                                        | Participant           | Titre                                                                                                                            | Participant    |
| 13H30 – 13H45 | Effet des anions inorganiques et de la matrice naturelle sur la cinétique de dégradation de l' AO10 par H2O2/IO4-            | Nessaibia Maroua      | Performance of natural borage essential oil as a sustainable and green corrosion inhibitor for XC48 steel in 1.0 M HCl solution. | Himeur Touhida |
| 13H50 – 14H05 | Planification expérimentale de l'élimination de malachite green par membrane liquide émulsionnée                             | Bendebane Farida      | Investigation des propriétés électrochimiques et électrocatalytiques d'un complexe de manganèse base de Schiff                   | Hamla Meriem   |
| 14H10 – 14H25 | Absorption of Carbon dioxide using potassium carbonate solution accelerated by enzyme in a hollow fibre membrane contactor   | Mohamed Nadir Khelifi |                                                                                                                                  |                |
| 14H30 – 14H45 | Elimination de L'Indigo Carmine par Photo dégradation de Hétérojonction ZnCo2O4-ZnO Sous Irradiation Solaire et Artificielle | Khaled Imane Meriem   |                                                                                                                                  |                |
| 15H00 – 15H30 | <b><u>PAUSE CAFÉ</u></b>                                                                                                     |                       |                                                                                                                                  |                |
| 15H30 – 15H45 | Utilisation des Biosurfactants dans la dépollution des sables contaminés par les hydrocarbures                               | Ariech Mounira        |                                                                                                                                  |                |
| 15H50 – 16H05 | Etude de la degradation du compose organophosphorePar la photolyse du peroxyde d'hydrogene en milieux aqueux                 | Chenna Malika         |                                                                                                                                  |                |
| 16H10 – 16H25 | Traitement de lixiviat « CET de Msila » par des Bio-coagulants                                                               | Drif Seif Eddine      |                                                                                                                                  |                |
| 16H30 – 16H45 |                                                                                                                              |                       |                                                                                                                                  |                |

### Session Poster -03- (P01-P41)

| 13H30 – 15H00 |                                                                                    |                      |     |                                                                                                                               |                   |
|---------------|------------------------------------------------------------------------------------|----------------------|-----|-------------------------------------------------------------------------------------------------------------------------------|-------------------|
|               | Titre                                                                              | Participant          |     | Titre                                                                                                                         | Participant       |
| P01           | Effect of Bed Material on the Gasification Process of Local Food Industries Wastes | Bellal Mohamed Nazim | P21 | L'effet protecteur des films de polypyrrole /nanoparticules ZnO sur la corrosion des électrodes en aciers A316 en milieu NaCl | Nessark Faiza     |
| P02           | Développement D'électrolytes Et De Membranes                                       | Aris Serine          | P22 | Synthesis and characterization of organic-inorganic hybrid materials prepared through self-assembly.                          | Djemli Amar       |
| P03           | Internal corrosion of desalting pipes.Internal corrosion of desalting pipes        | Arbaoui Mohamed Ali  | P23 | Etude l'effet du traitement thermique sur l'acier X70                                                                         | Abderrahmani Safa |
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