

INTERNATIONAL RESEARCH SYMPOSIUM IN NATURAL BIOACTIVE PRODUCTS

Innovation in Natural Products-based
Biopesticides and Drugs from Agroforestry
Waste, Plants and Microorganisms



November 24th- 26th, 2021 Granada (Spain)

PROYECTO I-COOP (B20369) CSIC /Universidad de Antioquia

**Unidad Asociada UGR-CSIC BIOPLAG: Bioplaguicidas,
biotecnología, síntesis y diversidad química.**

ACADEMIC SESSIONS:

- **Agroforestry Waste as a source of bioactive natural products**
- **Bioactive Natural Products from Plants and their Residues**
- **Search for Drugs and Pesticides in Microorganisms**
- **Online Poster Session**

TECHNICAL SESSION:

Visit to KIMATEC Group R&D Center and Kimatec Excellence Awards Ceremony

Format: In Person and Online

Aimed at: Postgraduate, Master and Doctorate students and last degree courses in Biology, Chemistry, Pharmacy and Chemical Engineering. Technicians and researchers from Biotechnology and Fine Chemical Companies based on natural products: Producers of Oil, Wood, Essences, Cosmetics, Pesticides, etc.

Sponsors:

KIMATEC

Grupo de Productos Naturales –RSEQ

Departamento de Química Orgánica, Universidad de Granada

Collaborating Entities:

AleoVitro

Soluciones Botánicas

Coopaman

MAFA

DAY 1 – Wednesday 24th November

16:00 **Opening Session**

Agroforestry Waste Opportunities

16:15 M.F. Andres, ICA-CSIC / J. Navarro CITA - Spain
LIFE WASTE4GREEN: Latest developments

16:35 A. Galisteo, UGR-CSIC - Spain
Garlic residues valorization. New biocontrol agents.

17:00 COFFEE BREAK

17:20 A. Fernández Arteaga, UGR - Spain
Comprehensive recovery of coffee waste and by-products. Applications as prebiotic agents and in food biofortification.

17:35 A. Cervera-Mata, UGR – Spain
The use of Spent coffee grounds by-products as organic amendments and their impact on soil C and N cycles

17:50 F. Echeverri, UDEA - Colombia
Perspectivas de la agroindustria en la búsqueda y desarrollo de moléculas bioactivas. Estudio de casos.

DAY 2 – Thursday 25th November

Bioactive Natural Products from Plants and their Residues

09:10 A. Pérez, UGR - Spain
Aprovechamiento de residuos de girasol: hacia la síntesis de platensimicina.

09:30 C. E. Díaz, IPNA-CSIC / E- Ochoa, AleoVitro – Spain
Biotechnological Production of Plant-Derived Natural Products

9:50 I. Fernández, UAL - Spain
NMR Metabolomics as a Jack of All Trades Tool: Cell Wall Composition in Greenhouse Crop Biomass

10:10 R. Hernández Galán, UCA - Spain
Desarrollo de forboles y 12-desoxiforboles como agentes promotores de la neurogénesis

10:30 N. Kaushik, Amity University - India
Biopesticides based on endophytic microbial algae

10:50 A. Gonzalez-Coloma, ICA-CSIC - Spain
ICOOP Project results update.

11:15 **Coffee Break + Poster Session ONLINE**

12:00 L. F. Torres, UDEA - Colombia
Colombian Forestry Wood Waste.

12:20 M. Cuellar, Universidad Valparaíso - Chile
Sesquiterpenos del Canelo (*Drimys winteri*), base estructural para la obtención de compuestos bioactivos.

12:40 G. Zúñiga, USACH (ONLINE) - Chile
Biotechnological production of bioactive compounds in plants

13:00 W. Quiñones, UDEA (ONLINE) - Colombia
Nematicidas sintéticos inspirados en xanthonas.

13:20 L. Ruiz, UNAP (ONLINE) - Peru
Antifeedants and phytotoxic effects of essential oils from species Piper

13:50 **Lunch**

Search for Drugs and Pesticides in Microorganisms

- 15:30** I. González, UCA - Spain
Caracterización metabolómica y genómica de eremofilenoles implicados en la autorregulación de la producción de esporas asexuales en *Botrytis cinerea*
- 15:50** F. Reyes, Fundación Medina - Spain
Combined use of spectroscopic techniques and analysis of clusters of biosynthetic genes for the structural determination of complex natural products.
- 16:10** J. Imperial, CSIC - Spain
Genomic insights into the production of biologically active secondary metabolites by *Aspergillus sp.* SPH2, an endophyte isolated from *Bethencourtia palmensis*
- 16:30** Coffee Break
- 16:50** Closing Session (A. Fernández Barrero, UGR)
- 17:30** Bioactive Natural Products – Award Session

Poster Session (ONLINE)

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DAY 3 – Friday 26th November

TECHNICAL SESSION: KIMATEC Open Day

9:00 Bus Trip Granada – Kimatec (Almería)

11:00 Welcome

11:30 Coffee

12:00 Tour: laboratorios, R&D Center...

13:00 Award Ceremony

14:00 Lunch

16:00 Bus Trip Almería – Granada
