**Name :** Dr Lucia Chiummiento **Assistant professor**

**Work adress :** Department of Science University of Basilicata,

Via dell’Ateneo lucano, 10, 85100 Potenza, Italy,

Tel : 00 39 0971 205492

e-mail : lucia.chiummiento@unibas.it

**Previous position:**

* **1992** graduated in *Chemistry* (University of Basilicata, Potenza) with 110/110 cum laude (supervisor **Prof Bonini**).
* **From 1995 to 1999:** PhD in organic chemistry (XI cycle) at University of Basilicata associated to University of Salerno (administrative office)under the supervisor of Prof Carlo Bonini.

**Title** :”Frammenti chirali poliossidrilati: utili precursori per la sintesi di macrolidi naturali”

* **From Genuary 2000 to June 2003:** Post-PhD position in organic chemistry (assegno di ricerca) at University of Basilicata, Department of Chemistry.

**Title:**  “Studio sulla sintesi enantio- e diastereoselettiva di macrolidi naturali

* **From July 2003 to July 2006:** Contract of research at University of Basilicata, supported by a FIRB project.

**Title:** “Sintesi di peptidi modificati per terapie innovative modulatrici della risposta immunitaria e antivirale”

**Research interest**

* Partial and total syntheses of natural compounds (Seiridin A, Nystatin A, Amphotericin B, Dolabelide A, Strevertene A, Macrolactin A, Basiliskamide, Anigopreissin A, Myricanol, -viniferin).
* Synthesis of new analogs of HIV-protease inhibitors containing heterocyclic ring (thiophene, indole, benzothiophene, benzofuran)
* Development of different synthetical methodologies: desymmetrization of meso and racemic compounds by lipase, regioselective opening of oxirane, oxidation and oxymercuration of alkenes, selective functionalization of calix[4]arene, intramolecular cyclization, chemical/computational approach to the determination of absolute configuration of diols, formation of heterocyclic compounds (benzofurans and dihydrobenzofurans), ipso-iodination of aryl boronic acids, Claisen rearrangement, cross-metathesis reaction, Suzuki cross-coupling using Pd nanoparticles, multicomponent reactions, biomimetic dimerization of phenols
* Extraction of active metabolites from ethnobotanic species and biological evaluation.

**Scientific records**

63 publications (61 research papers, 2 book chapters) and 2 patents.

10 oral communications and 60 congress attendences.

Author h index: 19

**Memberships**

Società Chimica Italiana (SCI),

**Visiting academic positions**

* **2014**, Teaching staff mobility, ERASMUS project, at Univérsité de Strasbourg (Francia): “Terpenes: around fragrances, resins, hormones and colours”, 8 total hours

• **2018** Teaching staff mobility, ERASMUS project, at Univérsité de Strasbourg (Francia): “Polyketides: a polyols’ overview", 8 total hours.

* **2019** Teaching staff mobility, ERASMUS project, at Univérsité de Strasbourg (Francia): “Regioselective installation of the trans-dihydrobenzofuran architecture for the synthesis of natural compounds”, 8 total hours.

**Teaching activities and PhD supervision**

* **From 2006 up to now :**

Teaching course of ***Chemistry of natural organic compounds*** (6 CFU, 48 h) master course of Chemical Science

Teaching course of **Additions of organic chemistry** (6 CFU, 48 h) bachelor course of Chemistry

* **2022**

**Teaching course of Organic Chemistry** (6 CFU, 52 h )in bachelor course of Biotechnology.

* **From 2013 to now :**

Supervisor of two PhD students in co-tutorship with University of Strasbourg in organic chemistry

1. Dr Bochicchio Antonella , XXVIII cycle (2012-2016), title: Towards the atropo-stereoselective total synthesis of Myricanol”

2. Dr Santarsiere Alessandro, XXXVI cycle (2020-today), title: “A new total synthesis of myricanol: the influence of the ene-yne system”.

Supervisor of two PhD students in Chemistry, University of Salerno and Basilicata:

1. Dr Faraone Immacolata, XXXI cycle (2015-2018), title: Pharmacological potential and phytochemical profile of three unexplored medicinal plants”.

2. D’Orsi Rosarita, XXXII cycle (2016-2019) University of Salerno and Basilicata, title: Heterocyclic architecture for the synthesis of novel anti-HIV protease and anti-cancer compounds”

**Peer reviewer for international journals:**

* Tetrahedron Letters, Bioorganic and Medicinal Chemistry Letters, Industrial Crop and Products (Elsevier),
* European Journal of Organic Chemistry, Chemistry: an Asian Journal (Wiley),
* Organic and Biomolecular Chemistry, Chemical Communication (Royal Society of Chemistry),
* Antioxidants, Foods, Processes (MPDI),
* Letters in Organic Chemistry (Bentham).
* Guest editor for a special issue on **Frontiers in Chemistry** - section Green and Sustainable Chemistry,

title: "Eco-friendly approaches to heterofunctionalized aromatics and heteroaromatics",Topic on line from 02 febbraio 2022.

* Guest editor for a special issue on **Bioengineering (MPDI**)-title: Bioactive Molecules and Nanomaterials: Synthesis and Bio-Application

**Education**

o Administrative role and position responsibility

* From 2016:

Member of time planning commitee for the Chemistry and Chemical Science courses

* From 2016

Delegate for the Department of Science for disable students.

o Scientific organisations/Coordination of academic activities

* Member of organizing committee of XVI Convegno Nazionale Reazioni Pericicliche e Sintesi di Etero e Carbocicli, Matera, University of Basilicata 2015, June 26-27 .
* Member of organizing commetee of I Virtual symposium on pericyclic compounds, CIRP: centro interuniversitario di ricerca sulle reazioni pericicliche e sintesi di sistemi etero e carbociclici, 2020, November 24-25.
* Member of of organizing commetee of Chiritaly 2022, Matera, 2022, September 19-21.Editorial activity

**Other work experience**

Founding member of the spin-off “ChiV.E.C. srls – Chimica Verde per

l’economia circolare e lo sviluppo sostenibile” approved by CdA of University of Basilicata on 2021 August 4 and constituted on 2022 February 22

**Date .**

30/08/2023

**Signature**

