



Brief biographical note

Prof. Dr. Carmen Elena Cotrutz is professor (2000), PhD coordinator (2004) and head of department (2005) of cell and molecular biology at "Gr.T.Popa" University of Medicine and Pharmacy Iasi, Romania, obtaining the Bachelors degree and Ph.D. from the same university. She is also specialist MD in Clinical Laboratory since 2001.

At UMF Iasi, Prof. Dr. C E Cotrutz is coordinating also research activities in the department of cell and molecular biology, being partner coordinator for 5 national research grants in the past 4 years and research team member in 6 national research grants in the past 5 years. The main research interest is directed toward testing the biocompatibility for metallic and polymeric biomaterials used for medical application like hip prosthesis, reconstructive surgery, implants for trauma, dental prosthesis..

His professional and scientific activity comprises: handbooks/textbooks (9) as author or co-author; papers published in scientific journals and the proceedings of international or national conferences (420); participating in different international or national research projects (11); member of the scientific committee of different meetings (14); president and member of the organizing committee for different international conferences (8), secretary of the First and Second International Congress of Romanian Society for Cell Biology; member of the International Editorial Board of the Romanian Journal of Morphology and Embryology; abstracts reviewer for different journals and cell biology and morphology conferences; "Maya and Nicolae Simionescu" prize awarded in 2002 by Romanian Society for Cell Biology for the contribution to the field of cell and molecular biology and pathology.

Name , salutation: Prof. Dr. Carmen Elena Cotrutz

Current appointment:

Cell and Molecular Biology Department,
Faculty of Medicine,
"Gr.T.Popa" University of Medicine and Pharmacy Iasi, Romania



Educational Background:

- PhD in Cell and Molecular Biology, Faculty of Medicine, "Gr.T.Popa" University of Medicine and Pharmacy Iasi, Romania, 1995.
- Professor in Cell and Molecular Biology Department, Faculty of Medicine, "Gr.T.Popa" University of Medicine and Pharmacy Iasi, Romania since 2000.
- Specialist MD in Clinical Laboratory since 2001.
- PhD coordinator in Cell and Molecular Biology, Faculty of Medicine, "Gr.T.Popa" University of Medicine and Pharmacy Iasi, Romania, 2004.

Experience:

- Member of Romanian Society for Cell Biology(RSCB)(1990) – president of Iasi Branch and vicepresident RSCB (2009); U.S.S.M. (1992); European Cell Biology Organization (1993); Society for dental medicine (1997), Oral cell biology dept - president; U.N.A.S. (1997); Redaction committee Medical Dentistry Rev (1997); Romanian Society for Magnesium Research (1999); Medical Balkan Union (1999); ELSO (European Life Science Organizations) (2000); Doctors and Naturalists Society (2000); Editing committee of Medical Surgical Rev Iasi (2004); Romanian Society for Biomaterials SRB (2004) - president of NE Branch; Romanian Society of Morphology – member in the



4th International Conference "Biomaterials, Tissue Engineering & Medical Devices"



director committee (2004); international editorial board - Romanian Journal of Morphology and Embryology (2004)

Research/clinical interest

Research activity in the field of:

- Light and Electron Microscopy for cell biology and pathology
- Biocompatibility evaluation for various biomaterials
- Biological analysis of explants
- Bone regeneration – biomineralization induction, osteoconduction through interconnected porosity;
- Biocompatibility testing and evaluation using molecular biology techniques

Present Areas of Research

The ongoing research work is characterized by the following keywords: biomaterials testing, interaction tissue-biomaterials, biological analysis of explants, regenerative medicine & tissue engineering, bone regeneration.

Title of your BIOMMEDD 2010 lecture:

Biological molecules involved in biocompatibility