

**Interview with Madalina Axinie  
ESR – ICB,  
Bucharest, Romania**



Madalina Axinie

*I was born in Bucharest, the capital of Romania which is located in the South of the country. I studied chemistry at the University of Bucharest and the master in the same field in the same university. Prior to start my PhD, I made a year and half, in preDoc, in Athens, Greece, at the National Hellenic Research Foundation where I was involved in the synthesis and characterization of dendritic structures and also in the field of ultrasound and microwave techniques. During my stay in the Greek laboratory, I meet people taking part on different ITN's programmes doing their PhDs and Postdocs. I learned about Marie-Curie ITN programme and opportunity from them.*

**What is your Postdoc project about? What objectives do you have to reach? What have you achieved so far?**

My project within Marie Curie is about the dynamic assessment of the interaction between a target analyte and biomimetic membranes using optical (SPR) and electrical (EIS) sensing platforms. The main objectives of my project are to obtain lipophilic matrix which will allow as the control of the deposited lipid layer during vesicle spreading and to study the dynamic of the interaction analyte-lipid membrane or lipid vesicles by optical, electrical or dual measurements

**What is the best thing about taking a PhD in the framework of an ITN European Project? What is challenging?**

For me it is not the first time I am taking part in an ITN, so I know that meeting peoples from different fields will land to the establishment of new collaborations and solve many problems.



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# Dynamic Interactive Nanosystems

## Marie Curie Initial Training Network

Could you tell us something about your secondments: how many, where? What was the best think you learned/achieved during your secondments?

So far I have done one secondment at the Semmelweis University under the supervision of Dr. Edit Buzàs. **Working in a totally different field then mine it was very exciting and for all the knowledge I gained during my stay in Budapest I would like to thank Dr. Edit Buzas and my colleague Xabier Osteikoetxea Veleze .**

Also I had the opportunity to visit the group of Dr. Mihai Barboiu in Montpellier, for two weeks I was involved in the synthesis, purification and characterization of a polyethylene glycol derivative which further will be used to modify a gold chip. I would also like to take this chance to thank the people from Montpellier.

What did you learn from your participation to national/international events during your PhD?

First of all the participation to national/international events gives you **a great opportunity to present your work, to get some new ideas but also to find out what is new in the field.**



Do you have some advice to master/engineer students considering taking a PhD?

**Go for it!** It is not easy but the final result gives you the power to continue.

Do you have any plans after completing your PhD?

I would really like to continue with the research, so the most probably a Postdoc is the next step. But also I will not discard a career in industry.

*Thank you Madalina and all the best for DYNANO.*

*Interviewed by Laurence Bosch*

### DYNANO in brief

Starting date: 1st November 2011

Project duration: 48 months

Number of partners: 15

Project Coordinator: Dr. Mihai BARBOIU,  
European Membrane Institute -IEM, Montpellier, France.

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[www.dynano.eu](http://www.dynano.eu)



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