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Topics

- Probiotics, prebiotics, simbiotics
- Development of proteomic technologies
- Signal transduction in eukaryotes
- Synthesis, characterization and manipulation of biomaterials
- Hybrid nanosized structures and nanocomposites
- Application of nanomaterials science research in the biomedical field for the development of new therapeutic and diagnosis tools
- Drug delivery
- New synthetic compounds with bioactive properties
- Drugs from natural sources
- Nanomaterials based-strategies for fighting antibiotic resistance and biofilms' development in medicine and ecology

TABLE OF CONTENTS

1	Alexandru Mihai Grumezescu	Editorial
2	Monica Dogaru Rodica Talmaci Daniel Coriu Sorina Badelita	Sensitivity, specificity and efficiency of different discriminative indexes in differentiation of thalassemia trait from iron deficiency anemia
9	Grația Pîrcălăbioru Stavros Plessas Eugenia Bezirtzoglou Aristotelis Papageorgiou Athanasios Alexopoulos Ioanna Mantzourani Coralia Bleotu Carmen-Mariana Chifiriuc Veronica Lazăr	Detection of enteropathogenic <i>Escherichia coli</i> (EPEC) using Multiplex PCR
15	Crina Saviuc Alexandru Mihai Grumezescu Eliza Oprea Valeria Radulescu Luminita Dascalu Carmen-Mariana Chifiriuc Marcela Bucur Otilia Banu Veronica Lazar	Antifungal activity of some vegetal extracts on <i>Candida</i> biofilms developed on inert substratum
24	Emilia Panus Carmen-Mariana Chifiriuc Otilia Banu Magda Mitache Coralia Bleotu Natalia Rosoiu Veronica Lazăr	Comparative study of resistance and virulence markers in <i>Escherichia coli</i> strains isolated from hospital surfaces, clinical sources and drinking/ marine waters
31	Crina Saviuc Alexandru Mihai Grumezescu Mariana Carmen Chifiriuc Coralia Bleotu George Stanciu Radu Hristu Dan Mihaiescu Veronica Lazăr	<i>In vitro</i> methods for the study of artificial fungal biofilms