



International
Microencapsulation Society



15th International Symposium
on

MICROENCAPSULATION

September 18-21, 2005

Parma, Italy

POSTERS

The Centro Regionale per l'Innovazione dei Prodotti per la Salute is an initiative of the TEFARCO Innova Consortium, financed by the Regione Emilia Romagna, in the context of the Programma Regionale per la Ricerca Industriale, l'Innovazione ed il Trasferimento Tecnologico (PRRIITT).

POSTERS

(set up time: 8:15 – dismantle time: 18:00)

SESSION I (Monday, September 19, 2005)

#		Page
100	PREPARATION AND IN VITRO EVALUATION OF PROPYLTHIOURACIL MICROSPHERES MADE OF EUDRAGIT RL 100 AND CELLULOSE ACETATE BUTYRATE POLYMERS USING THE EMULSION-SOLVENT EVAPORATION METHOD, W.M. Obeidat, J.C. Price, Jordan University of Science and Technology, Jordan	27
101	BIODISTRIBUTION STUDIES AND HISTOPATHOLOGICAL EVALUATION OF INTRA-ARTICULARLY ADMINISTERED LIPOGELOSOME FORMULATION RADIOLABELLED WITH ^{99m} Tc CONTAINING DICLOFENAC SODIUM (DFNA) IN ARTHRITIC RABBITS, S. Türker, S. Erdoğan, A.Y. Özer, H. Bilgili, S. Deveci, Hacettepe University, Turkey	29
102	ENCAPSULATION OF NICOTINAMIDE INTO NANOSTRUCTURED LIPID CARRIERS, E.B. Souto, V. Teeranachaideekul, V.B. Junyaprasert, R.H. Müller, The Free University of Berlin, Germany	31
103	COMPLEX FORMATION OF LOCAL ANAESTHETIC AND ANTIARRHYTHMIC KAZCAINE WITH β -CYCLODEXTRIN, K. M. Beketov, U. S. Kemelbekov, R. M. Iskakov, K. D. Praliyev, A. S. Khlebnikov, A.B. Bekturov Institute of Chemical Sciences MES RK, Kazakhstan	33
104	SIZE-CONTROLLED ALGINATE MICROBEADS WITH IMMOBILIZED TB VACCINE, R. Iskakov, A. Plazun, A. Tleumukhambetova, E. Batyrbekov, B. Zhubanov, Institute of Chemical Sciences, Almaty, Kazakhstan	35
105	EFFECTS OF COSURFACTANTS, PALMITIC ACID AND SUCROSE PALMITATE, ON THE PARTICLE SIZE AND STABILITY OF LIPID NANO-EMULSION PREPARED AS A TUMOR-TARGETED DRUG CARRIER, S.Takegami, K. Kitamura, H. Kawada, T. Kitade, K.Hayashida, K. Aoki, Y. Matsumoto, H. Ishida, Kyoto Pharmaceutical University, Japan	37
106	CAPSULE WALL PERMEABILITY STUDIED BY NUCLEAR MAGNETIC RESONANCE, C. Mayer, A. Rumpelcker, A. Bauer, University of Duisburg-Essen, Germany	39
107	POLYAMIDE MICROCAPSULES CONTAINING JOJOBA OIL FOR COSMETOTEXTILE APPLICATIONS, P. Persico, C. Carfagna, L. Danicher, Y. Frère, University of Naples "Federico II", Italy	41
108	CONFIGURATIONAL BIOMIMETIC IMPRINTING OF ANGIOTENSIN II FOR NOVEL DRUG DELIVERY SYSTEMS, E. H. Lauten, and N. A. Peppas, The University of Texas at Austin, USA	43
109	PREPARATION OF POLYLACTIDE MICROCAPSULES ENCLOSING PROTEINS UTILIZING POLYLACTIDE BASED REVERSE MICELLE SYSTEM, S. Nishino, Y. Kitamura, K. Shiomori, H.Yoshizawa, Okayama University, Japan	45
110	PREPARATION AND IN VITRO EVALUATION OF MUCOADHESIVE PROPERTIES OF ALGINATE/CHITOSAN MICROPARTICLES CONTAINING PREDNISOLONE, S. Wittaya-areekul, J. Kruenate, and C. Prahsarn, Naresuan University, Thailand	47
111	FLAVONE GASTRO-RESISTANT MICROPARTICLES OBTAINED BY SPRAY-DRYING TECHNIQUE, M. R. Lauro, F. De Simone, P. Scarfato, P. Iannelli, R.P. Aquino, University of Salerno, Italy	49
112	MICROCAPSULES via INTERFACIAL POLYMERIZATION AND ESSENTIAL OILS ENCAPSULATION, R. P. Aquino, E. Avallone, C. D'Amico, V. De Feo, F. Guariglia, P. Iannelli, M. R. Lauro, P. Scarfato, University of Salerno, Italy	51
113	SUPERCritical ASSISTED ATOMIZATION: A NOVEL TECHNIQUE FOR MICROSPHERE PRODUCTION, G. Della Porta, A. Antonacci and E. Reverchon, University of Salerno, Italy	53

III

#		Page
114	MICROENCAPSULATION OF DNA INTO PLGA CATIONIC NANOPARTICLES FOR GENE DELIVERY TO CANCER CELLS, S. Diez, M. Buñuales, C. Tros de Ilarduya, University of Navarra, Spain	55
115	TARGETED LIPO-POLYMERIC NANOPARTICLES FOR IMPROVING GENE EXPRESSION IN TUMOUR CELLS, L. García, M. Buñuales and C. Tros de Ilarduya, University of Navarra, Spain	57
116	TABLETS FOR BUCCAL ADMINISTRATION OF CARBAMAZEPINE: COMPARATIVE BEHAVIOR OF PAA MICROSPHERES AND MATRICES, T. Ciach, V. De Caro, G. Giandalia, L. I. Giannola, M.G. Siragusa, University of Palermo, Italy	59
117	BLOCK COPOLYMER PRODRUG MICELLES FOR CONTROLLED DELIVERY OF HALOPERIDOL, M. Hans, K. Shimoni, D. Danino, and A. Lowman, Drexel University, Philadelphia, USA	61
118	IMPACT OF THE PRIMARY EMULSION PROCEDURE ON THE CHARACTERISTICS OF SMALL FITC-BSA LOADED MICROPARTICLES, C. Wischke, H.-H. Borchert, Free University of Berlin, Germany	63
119	DETERMINATION OF MICROCAPSULE FILM COATING QUALITY BY CONFOCAL LASER SCANNING MICROSCOPY, F. Depypere, P.Van Oostveldt, J. G. Pieters, K. Dewettinck, Ghent University, Belgium	65
120	PROTEIN LOADED POLY(D,L-LACTIDE)-CO-POLY(ETHYLENE GLYCOL) MICROSPHERES FOR PARENTERAL USE: EFFECT OF γ STERILIZATION, R. Dorati, C. Colonna, P. Perugini, F. Pavanetto, T. Modena, L. Colombo, I. Genta, B. Conti, University of Pavia, Italy	67
121	AN ATOMIC FORCE MICROSCOPY INVESTIGATION OF γ -IRRADIATED PLGA/PEG MICROSPHERES, R. Dorati, M.Patrini, P.Perugini, F.Pavanetto, A.Stella, T.Modena, I. Genta, B. Conti, University of Pavia, Italy	69
122	UV-A SUNSCREEN INCORPORATION IN LIPIDIC MICROPARTICLES , V. Iannuccelli, N. Sala, R. Tursilli, G. Coppi, S. Scalia, University of Modena and Reggio Emilia, Italy	71
123	EX-VIVO STUDY OF A MICROSYSTEM FOR POLYMYXIN B ORAL ADMINISTRATION, G. Coppi, V. Iannuccelli, N. Sala, S. Sergi, M. Bondi, University of Modena and Reggio Emilia, Italy	73
124	MICROPARTICULATE CARRIER FOR GENTAMICIN ORAL ADMINISTRATION, N. Sala, V. Iannuccelli, F. Pellati, G. Coppi, University of Modena and Reggio Emilia, Italy	75
125	GASTRORESISTANT MICROCAPSULES. NEW APPROACHES FOR COLON-SPECIFIC DELIVERY OF KETOPROFEN, F. Bigucci, B. Luppi, T. Cerchiara, M. Marangi, V. Zecchi, University of Bologna, Italy	77
126	PREPARATION AND CHARACTERIZATION OF SOLID LIPID NANOPARTICLES USING PGSS FOR COSMETIC APPLICATIONS, A. Semenzato, S. Salmaso, N. Elvassore, A. Bertucco, P. Caliceti, University of Padua, Italy	79
127	DELIVERY OF SIGNALLING MOLECULES WITHIN COLLAGEN-BASED SCAFFOLDS FOR TISSUE ENGINEERING, F. Ungaro, M. Biondi, I. d'Angelo, L. Indolfi, F. Quaglia, P. Netti, M. I. La Rotonda, University of Naples "Federico II", Italy	81
128	ENCAPSULATION OF BETAMETHASONE-CYCLODEXTRIN INCLUSION COMPLEXES IN LIPOSOMES: EFFECT OF CYCLODEXTRINS ON THE ENCAPSULATION EFFICIENCY AND THE KINETIC RELEASE OF BETAMETHASONE, G. Piel, M. Piette, D. Castagne, V. Barillaro, B. Evrard and L. Delattre, University of Liège, Belgium	83
129	STABILITY OF CURCUMINOIDS IN CREAM CONTAINING CURCUMINOIDS SOLID LIPID NANOPARTICLES, W. Tiyaboonchai, and W. Tungpradit, Naresuan University, Thailand	85
130	pDNA/CHITOSAN NANOPARTICLES COATED WITH HYALURONIC ACID AS GENE CARRIER, Z. Yang, Y. Koyama, and T. Sato, Keio University, Japan	87

IV

#		Page
131	STABILITY ASSESSMENT OF ALL-TRANS-RETINOIC ACID MICROSPHERES, Y. Cirpanli, P. Aksungur, N. Unlu, S. Calis, A. A. Hincal, Hacettepe University, Turkey	89
132	OPTIMIZATION OF A MELT PELLETIZATION PROCESS APPLIED IN A ROTARY PROCESSOR, USING CENTRAL COMPOSITE DESIGN AND THE DESIRABILITY FUNCTION, P.G. Paterakis, D.M. Rekkas P.P. Dallas, University of Athens, Greece	91
133	BISPHOSPHONATE LOADED PLGA (50:50) MICROSPHERES FOR IMPLANTATION IN OSTEOLYSIS, S. Samdancioglu, S. Calis, M. Sumnu, A. A. Hincal, Hacettepe University, Turkey	93
134	THE EFFICACY OF TRANSFECTION BY LIPOSOME-ENCAPSULATED DNA INTO VARIOUS CELLS IS ENHANCED BY CELL-PENETRATION PEPTIDES ATTACHED TO THE LIPOSOME SURFACE, T. S. Levchenko, A. Chrastina, D. D. Verma, A.M. Vali, V. P.Torchilin, Northeastern University, Boston, USA	95
135	GELATIN-SODIUM ALGINATE COMPLEX COACERVATION: MICROENCAPSULATION OF NITROFURANTOIN, U. A. Shinde, M. S. Nagarsenker, University of Mumbai, India	97
136	IMPROVEMENT OF SOME PHARMACEUTICAL PROPERTIES OF DY-9760E INJECTION BY SULFOBUTYL ETHER β -CYCLODEXTRIN, Y. Nagase, H. Arima, F. Hirayama, K. Uekama, Daiichi Pharmaceutical Co., Japan	99
137	DRUG COHESION WITHIN PELLETIZATION IN ROTOPROCESSOR, M. Rabišková, K. Krejčová, E. Polášek, D. Vetchy, University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic	101
138	DEVELOPMENT OF A NOVEL CHEMOEMBOLIZATION AGENT FROM ALGINATE AND PLGA, X. Liu, L. W. Chan, Q. Li, P. W. S. Heng, National University of Singapore, Singapore	103
139	INFLUENCE OF POLYMER VISCOSITY AND URONIC ACID COMPOSITION ON ALGINATE MICROSPHERES PRODUCED BY EMULSIFICATION, H. Y. Lee, P. W. S. Heng, L. W. Chan, National University of Singapore, Singapore	105
140	APPLICATION OF PROCESS ANALYTICAL TECHNOLOGY TO MICROSPHERE SIZING DURING SPRAY DRYING, L. H. Tan, P. W. S. Heng, L. W. Chan, National University of Singapore, Singapore	107
141	INFLUENCE OF POLYMER TYPE USED FOR COATING DICLOFENAC SODIUM LOADED PELLETS ON DRUG RELEASE PROPERTIES, K. Krejčova, M. Rabiskova, D. Vetchy, E. Gryczova and P. B. Deasy, University of Veterinary and Pharmaceutical Sciences in Brno, Czech Republic	109
142	PREPARATION OF XANTHAN - CHITOSAN BEADS FOR ORAL DELIVERY OF HYDROPHILIC DRUGS, O. Díez-Sales, A. Polache, L. Granero, M.J. Cano, M. Dolz, M. Herraéz, University of Valencia, Spain	111
143	A NEW TREND IN IMMUNOADSORPTION : NON-COVALENTLY ENTRAPPED BLOOD CELL MEMBRANES TO REMOVE ANTIBODIES FROM BLOOD-PLASMA, N. Ubrich, V. Hoffart, B. Jacquot, V. Jouan-Hureauux, I. Fries, A. Lamprecht, V. Latger-Cannard, C. Merle, V. Regnault, T. Lecompte, C. Vigneron, P. Maincent, University of Nancy, France	113
144	PH-SENSITIVE MICROSPHERES FOR COLON DELIVERY OF TACROLIMUS LOADED NANOPARTICLES, A. Lamprecht, H. Yamamoto, H. Takeuchi, Y. Kawashima, University of Nancy, France	115
145	THE TOPICAL APPLICATION OF 5-FLUOROURACIL (5-FU) LOADED BEADS HAVING TO BREAST CANCER PATIENTS CHESTWALL RECURRENCES, B. Arica, S. Calis, N. Guler, E. Fredro-Kumbaradzi, A. A. Hincal, Hacettepe University, Ankara, Turkey	117
146	FORMULATION AND IN VITRO EVALUATION OF GANCICLOVIR LOADED CHITOSAN MICROSPHERES, G. İkinci, E. Onur, A. L. Dogan, I. Vural, M. F. Sargon, A. A. Hincal, Hacettepe University, Ankara, Turkey	119

#		Page
147	IN VITRO AND IN VIVO EVALUATION OF ASCORBYL PALMITATE MICROEMULSIONS FOR TOPICAL APPLICATION, G. Bektas, S. Hekimoglu, A. A. Hincal, Hacettepe University, Turkey	121
148	HYDROXYPROPYL β -CYCLODEXTRIN EFFECT ON THE SELF-ASSEMBLING AND THERMOGELATION PROPERTIES OF POLOXAMER 407, G. Bonacucina, M. Misici-Falzi, M. Cespi, G. F. Palmieri, University of Camerino, Italy	123
149	MICROSPHERES CONTAINING RECOMBINANT INTERFERON ALPHA 2B: EFFECT OF SOME FORMULATION VARIABLES ON THE CHARACTERISTICS OF MICROPARTICLES, V. Saez, J. A. Ramón, R. Aldana, D. Pérez, Y. Tambara, E. Hardy, Center for Genetic Engineering and Biotechnology (CIGB), Cuba	125
150	PHARMACOKINETICS FOR PULMONARY DELIVERY OF BETAMETHASONE DISODIUM PHOSPHATE-LOADED CHITOSAN MICROPARTICLES, C. H. Chiang, W. S. Cheng, J. L. Chen, M. K. Yeh, National Defense University, Taiwan	127
151	ALGINATE MICROPARTICLES CONTAINING PROBIOTIC BACTERIA AND POLYPHENOLIC EXTRACTS AS NEW NUTRACEUTICAL PREPARATIONS, C. Juliano, L. Piu, R. Arras, R. Pisu, M. Cossu, P. Giunchedi, University of Sassari, Italy.	129
152	THE STUDY OF BRADYKININ-LOADED MICROPARTICLE ON THE LONG-TERM STIMULATION OF TISSUE PLASMINOGEN ACTIVATOR, J. L. Chen, M. K. Yeh, C. H. Chiang, National Defense University, Taipei, Taiwan	131
153	LONGTERM EPO-LOADED MICROPARTICLES PREPARATION, Z. Y. Chang, M. K. Yeh, J. L. Chen, C. H. Chiang, National Defence University, Taipei, Taiwan	133
154	INCREASING PROTEIN INTEGRITY BY PROTEIN COMPLEX, C. C. Kuo, Z. Y. Chang, J. L. Chen, C. H. Chiang, M. K. Yeh, National Defence University, Taipei, Taiwan	135
155	HIGH PROTEIN INTEGRITY MICROPARTICLES PREPARATION, M. K. Yeh, Z. Y. Chang, J. L. Chen, C. H. Chiang, National Defence University, Taipei, Taiwan	137
156	PREPARATION OF ALGINATE-CHITOSAN MICROPARTICLES CONTAINING ARTOCARPIN FOR TRANSFOLLICULAR DELIVERY, T. Pitaksuteepong, A. Somsiri, Naresuan University, Thailand	139
157	IN VIVO EVALUATION OF PROTEIN LOADED CHITOSAN MICROSPHERES FOLLOWING INTRATRACHEAL ADMINISTRATION TO RATS, D. Carrión-Recio, C. Taboada-Montero, J. L. Vila-Jato, C. Remuñán-López, University of Santiago de Compostela, Spain	141
158	AMPHIPHILIC COPOLYMERS BEARING SHORT BLOCKS OF LIPID-MIMETIC UNITS FOR STERIC STABILIZATION OF LIPOSOMES, D. Momekova, S. Rangelov, N. Lambov, Medical University, Sofia, Bulgaria	143
159	BIODISTRIBUTION STUDY OF RIFAMPIN BOUND TO POLYMERIC NANOPARTICLES, S. Gelperina, A. Bud'ko, E. Oganessian, O. Maksimenko, L. Vanchugova, E. Shipulo, P. Sveshnikov, L. Heifets, Moscow Sechenov Medical Academy, Russia	145
160	REDUCED TOXICITY OF DOXORUBICIN BOUND TO POLYSORBATE 80-COATED POLY(BUTYL CYANOACRYLATE) NANOPARTICLES, S. Gelperina, E. Pereverzeva, I. Treshalin, D. Bodyagin, A. Khalansky, L. Kurilo, N. Makarova, O. Maksimenko, J. Kreuter, Moscow Sechenov Medical Academy, Russia	147
161	PROLIFERATION AND OSTEOGENESIS OF C2C12 CELLS ENCAPSULATED WITHIN COLLAGEN MICROSPHERES, T. J. Wu, Y. J. Wang, National Yang-Ming University, Taiwan	149
162	FORMULATION AND CHARACTERISATION OF NANOSUSPENSIONS WITH IBUPROFEN AS A MODEL DRUG, P. Kocbek, S. Baumgartner, J. Kristl, University of Ljubljana, Slovenia	151

#		Page
163	LYSOZYME-CONTAINING CHITOSAN-COATED ALGINATE MICROSPHERES FOR ORAL IMMUNIZATION, L. Zorzin, M. Cocchietto, D. Voinovich, A. Marcuzzi, J. Filipovc-Grcic, C. Casarsa, C. Mulloni, G. Sava, Callerio Foundation Onlus, Trieste, Italy	153
164	IMPROVEMENT OF THE STABILITY OF ASCORBYL PALMITATE IN LIPID NANOPARTICLE DISPERSIONS, P. A. Grabnar, J. Kristl, University of Ljubljana, Slovenia	155
165	AN ATTEMPT TO CHARACTERIZE AND TO CATALOGUE DIFFERENT NANOSIZED DRUG DELIVERY SYSTEMS, T. Betz, A. Lamprecht, D. Neumann, Saarland University, Germany	157
166	ENTRAPMENT OF INSULIN INTO NANOPARTICULATE POLYELECTROLYTE COMPLEXES SYSTEMS, B. Sarmento, A. Ribeiro, F. Veiga, R. Neufeld, D. Ferreira, University of Porto, Portugal	159
167	AN INVESTIGATION INTO THE BEHAVIOUR OF TASTE-MASKING FATTY ACID MICROSPHERES IN AN ALKALI BUFFER SYSTEM, S. Qi, D. Q.M. Craig, S. A. Barker, D. Deutsch, University of East Anglia, UK	161
168	STUDIES ON A RECONSTITUTABLE SUSPENSION CONTAINING IBUPROFEN-LOADED EUDRAGIT® MICROSPHERES, B. Devrim, K. Canefe, University of Ankara, Turkey	163
169	MICROSPHERES BASED ONCE-DAILY MODIFIED RELEASE TABLET FORMULATIONS OF DILTIAZEM HYDROCHLORIDE, C. T. Şengel, C. Hasçıçek, N. Gönül, University of Ankara, Turkey	165
170	ENCAPSULATION OF VITAMIN A PALMITATE FOR VETERINARY NUTRITION: FORMULATION, PREPARATION AND STABILITY IMPLICATIONS, B. Albertini, N. Passerini, L. Rodriguez, University of Bologna, Italy	167
171	CHITOSAN MICROSPHERES FOR PROLONGED RELEASE OF VANCOMYCIN LOADED ONTO A HYDROPHOBIC CYCLODEXTRIN, F. Ferrari, S. Rossi, G. Sandri, M. C. Bonferoni, M. Sorrenti, L. Catenacci, G. Bettinetti, University of Pavia, Italy	169
172	PREPARATION AND DRUG RELEASE FROM THERMALLY CONTROLLED POLY(N-ISOPROPYLACRYLAMIDE) MACROSPHERES, M.E. Lane, G. Lewis, D. C. Coughlan, O. I. Corrigan, Trinity College, Dublin, Ireland	171
173	ALGINATE/CHITOSAN MICROSPHERES AS CARRIERS FOR PEPTIDES AND PROTEINS: FACTORS EFFECTING DRUG LOADING, E.A. Kharenko, A.V. Kharenko, N.B. Diomina, N.I. Larionova, Moscow Sechenov Medical Academy, Russia	173
174	APPLICATION OF PCM MICROCAPSULES IN COTTON TEXTILES, D. Acierno, E. Avallone, P. Iannelli, A. Rispoli, P. Scarfato, University of Salerno, Italy	175
175	THE ENCAPSULATION OF AZIDOTHYMIDINE-TRIPHOSPHATE IN POLY(ISO-BUTYLCYANOACRYLATE) NANOCAPSULES AS A NEW APPROACH TOWARDS ANTI-HIV THERAPY, H. Hillaireau, T. Le Doan, M. Besnard, J. Janin, P. Couvreur, University of Paris XI, France	177
176	PREPARATION, CHARACTERIZATION AND IN VITRO DRUG RELEASE STUDIES OF POLY TRIMETHYLENE CARBONATE / POLY ADIPIIC ANHYDRIDE BLEND MICROSPHERES, R. Dinarvand, M. M. Alimorad, H. Akbari, M. Amanlou, Tehran University of Medical Sciences, Iran	179
177	EVALUATION OF PREPARATION PROCESS FOR ENZYME LOADED CHITOSAN GLUTAMATE NANOPARTICLES, C. Colonna, B. Conti, P. Perugini, F. Pavanetto, T. Modena, I. Genta, University of Pavia, Italy	181
178	DEVELOPMENT OF CONTROLLED RELEASE SPHEROIDS USING NATURAL POLYSACCHARIDE HYDROGEL AS RELEASE MODIFIER, G. T. Kulkarni, K. Gowthamarajan, R. R. Dhobe, P. Vijayan, MK Samanta, B. Suresh, JSS College of Pharmacy, Ootacamund, India	183
179	EUDRAGIT COATED PECTINATE MICROSPHERES CONTAINING TRIMETHYL CHITOSAN AS A COLON SPECIFIC DELIVERY SYSTEM FOR MACROMOLECULES, F. Atyabi, S. Majzoob, M. Iman, Tehran University of Medical Sciences, Iran	185

VII

#		Page
180	STRATEGIES TO PROTECT INSULIN-LOADED ALGINATE NANOPARTICLES AGAINST ACIDIC MEDIUM, C. Pinto Reis, R. Neufeld, A. Ribeiro, F. Veiga, University of Coimbra, Portugal	187
181	BIOACTIVITY OF INSULIN ENCAPSULATED IN ALGINATE MICROSPHERES PREPARED BY EMULSIFICATION/INTERNAL GELATION, C. M. Silva, A. J. Ribeiro, I. V. Figueiredo, F. Veiga, University of Coimbra, Portugal	189
182	DEVELOPMENT AND CHARACTERIZATION OF NANOPARTICLES OF CHITOSAN LOADED WITH TRICLOSAN CYCLODEXTRIN COMPLEXES, F. Maestrelli, P. Mura, M. J. Alonso, University of Florence, Italy	191
183	DEVELOPMENT AND CHARACTERIZATION OF CALCIUM-PECTINATE MICROPARTICLES AIMED TO COLON DELIVERY OF THEOPHYLLINE , F. Maestrelli, S. Ferri, M. Cirri, G. Corti, P. Mura , University of Florence, Italy	193
184	MAGNETIC NANOPARTICLES FOR DRUG TARGETING AND IMAGING, B. Baroli, A. López-Quintela, University of Cagliari, Italy	195
185	NOVEL SURFACTANT-FREE ENCAPSULATION VIA pH-INDUCED PHASE-INVERSION EMULSIFICATION WITH ANIONIC POLYMER, M. Hayashi, K. Hanada, Y. Kitamura, H. Yoshizawa, Okayama University, Japan	197
186	PREPARATION OF MONODISPERSED MICROCAPSULE VIA EMULSIFICATION USING INK-JET APPARATUS, K. Yamauchi, A. Iwasawa, K. Hanada, Y. Kitamura, H. Yoshizawa, Okayama University, Japan	199
187	PREPARATION OF MICROCAPSULES USING O/W INTERFACIAL RADICAL POLYMERIZATION METHOD WITH SURFMER, M. Arishima, K. Hanada, Y. Kitamura, H. Yoshizawa, Okayama University, Japan	201
188	HYALURONIC ACID MICROSPHERES: PREPARATION AND CHARACTERIZATION, R. Cortesi, E. Esposito, E. Menegatti, University of Ferrara, Italy	203
189	PEPTIDE-DERIVATIZED BIODEGRADABLE NANOPARTICLES ABLE TO CROSS THE BLOOD BRAIN BARRIER, G. Tosi, L. Costantino, F. Gandolfi, B. Ruozi, E. Leo, M.A. Vandelli, F. Forni, University of Modena and Reggio Emilia, Italy	205
190	LIPOSOME EVOLUTION: NOVEL APPROACH IN GENE TRANSFER, B. Ruozi, R. Battini, A. Mucci, L. Schenetti, G. Tosi, F. Forni, M. A. Vandelli, University of Modena and Reggio Emilia, Italy	207
191	POLY(D,L-LACTIDE) AND POLY(D,L-LACTIDE)-CO-GLYCOLIDE AS SUNSCREEN CARRIERS, M. Vettor, P. Perugini, B. Conti, S. Scalia, R. Tursilli, I. Genta, T. Modena, F. Pavanetto, University of Pavia, Italy	209
192	NEW FORMULATES BASED ON β -CYCLODEXTRIN-PYRETHROIDS INCLUSION COMPLEXES AND PIPERONYL BUTOXIDE, O. Piccolo, G. Delogu, C. de Candia, V. Borzatta, CNR Institute of Biomolecular Chemistry, Sassari, Italy	211
193	FORMULATION OF NANOPARTICLES BY MEANS A TECHNIQUE BASED ON PLURONIC GEL FOR THE ENTRAPMENT OF AN ANTIISCHEMIC DRUG, E. Leo, B. Ruozi, G. Tosi, M. A. Vandelli, F. Forni, University of Modena and Reggio Emilia, Italy	213
194	IN VITRO ACTIVITY OF MICROENCAPSULATED ENZYME FOR INTESTINAL DELIVERY IN MONOGASTRIC SPECIES, S. Scocca, M. Pace, M. Faustini, S. Villani, E. Munari, A. Riccardi, D. Vigo, U. Conte, M.L. Torre, University of Pavia, Italy	215
195	IN VITRO MATURATION OF HUMAN OOCYTES IN A FOLLICLE-MIMICKING THREE-DIMENSIONAL CO-CULTURE, M.L. Torre, E. Munari, E. Albani, P.E. Levi Setti, S. Villani, M. Faustini, S. Scocca, A. Riccardi, U. Conte, D. Vigo, University of Pavia, Italy	217
196	EVALUATION OF IN VITRO DRUG RELEASE FROM O/W TOPICAL MICROEMULSIONS, L. Montenegro, C. Carbone, R. Drago, T. Musumeci, G. Puglisi, University of Catania, Italy	219

VIII

SESSION II (Tuesday, September 20, 2005)

#		Page
200	POLYMERIC NANO- AND MICROPARTICLES FOR SELECTIVE RECOGNITION AND DRUG DELIVERY, W. Kotti, O. Kotrotsiou, E. Dini, O. Mammona, C. Kiparissides, Aristotle University of Thessaloniki, Greece	245
201	SELF-ASSEMBLED SHEAR-STRESS SENSITIVE BEADS MADE OF CYCLODEXTRIN AND OIL, L. Trichard, G. Le Bas, H. Alphandary, N. Tsapis, E. Fattal, A. Bochot, University of Paris XI, France	247
202	CHITOSAN MICROSPHERES FOR CONTROLLED DELIVERY OF AN ANTIDEPRESSANT AGENT TO THE GASTROINTESTINAL MUCUS, I. Paños, N. Acosta, Á. Heras, Complutense University of Madrid, Spain	249
203	PRODUCTION OF MONODISPERSE GENTAMICYN SULPHATE-PLGA MICROPARTICLES WITH INTERNAL CONTROLLED STRUCTURE USING FLOW FOCUSING TECHNOLOGY, L. Martín-Banderas, M. Flores-Mosquera, M. Fernández-Arévalo, A. Iruín, S. Chávez, A. Rodríguez-Gil, Á. Cebolla and A. Gañán, University of Seville, Spain,	251
204	BIOSWITCH: A RELEASE-ON-DEMAND DELIVERY SYSTEM FOR NUTRACEUTICAL FORMULATIONS, H. Boumans, J. Timmermans, T. Slaghek, M. Minekus, TNO Quality of Life, Zeist, The Netherlands	253
205	MORPHOLOGY, LOADING AND RELEASE PROPERTIES OF POLY (DL-LACTIDECOLYCOLIDE)-MICROPARTICLES CONTAINING THE HYPNOTIC AGENT ETIZOLAM, A. Lopodota, A. Cutrignelli, A. Trapani, N. Denora, A. Latrofa, M. Franco, G. Trapani, G. Liso, University of Bari, Italy	255
206	PREPARATION AND EVALUATION OF EUDRAGIT RS 100 MICROPARTICLES CONTAINING GLUTATHIONE AND 2-HYDROXYPROPYL- β -CYCLODEXTRIN, A. Trapani, V. Laquintana, N. Denora, A. Lopodota, M. Franco, G. Trapani, G. Liso, University of Bari, Italy	257
207	DEVELOPMENT OF A CONTROLLED RELEASE PRODUCT CONTAINING VENLAFAXINE HYDROCHLORIDE, T. Korbély, P. Fekete, M. Huszár, EGIS Pharmaceuticals Ltd. Budapest, Hungary	259
208	DNA VACCINE DELIVERY BY POLYMERIC CORE-SHELL NANOSPHERES, L. Tondelli, M. Ballestri, M. Laus, K. Sparnacci, B. Ensoli, E. Brocca-Cofano, R. Voltan, A. Castaldello and A. Caputo, National Research Council, Bologna, Italy	261
209	IBUPROFEN LOADED MICROCAPSULES PREPARED BY EMULSION SOLVENT EVAPORATION METHOD FOR BIOMEDICAL TEXTILE APPLICATIONS, P. Valot, N. Zydowicz, University Claude Bernard Lyon 1, France	263
210	OXIDATION OF CYSTEINE ENTRAPPED IN LIPOSOMES, N. El Kateb, G. Dumortier, L. Cynober, J.C. Chaumeil, University of Paris 5, France	265
211	SOLID LIPID NANOPARTICLES INCORPORATED IN DEXTRAN HYDROGELS: A NEW SYSTEM FOR THE CONTROLLED DRUG DELIVERY, M. A. Casadei, P. Cavarischia, F. Cerreto, S. Cesa, M. Feeney, M. Giannuzzo, P. Paolicelli, University of Rome "La Sapienza", Italy	267
212	PREPARATION OF POLYURETHANE NANOCAPSULES BY INTERFACIAL POLYCONDENSATION IN NON AQUEOUS DIRECT AND INVERSE MINIEMULSIONS, M. Wu, E. Bertran, N. Zydowicz, University Claude Bernard Lyon 1, France	269
213	CONTROLLED RELEASE OF FRAGRANCE MATERIALS BY COMPLEXATION WITH CYCLODEXTRINS, U. Numanoglu, T. Sen, N. Tarımcı, University of Ankara, Turkey	271
214	ALGINATE AND PECTIN MICROSPHERES FOR ORAL PROTEIN DELIVERY: A COMPARATIVE STUDY, A. P. A. Urbano, C. M. Silva, A. J. Ribeiro, F. Veiga, University of Coimbra, Portugal	273

IX

#		Page
215	SCALE-UP OF EMULSION-BASED METHODS FOR PREPARING IBUPROFEN-LOADED NANOPARTICLES: APPLICATION OF NUMERICAL MODELS, S. Galindo-Rodríguez, F. Puel, S. Briançon, E. Allémann, E. Doelker and H. Fessi, University of Geneva, Switzerland	275
216	CYCLODEXTRIN/PHENOLIC DERIVATIVE INCLUSION COMPLEXES: PREPARATION AND THERMODYNAMIC EVALUATION OF THEIR STABILITY, M.Maggiore, M. Centini, C. Anselmi, M. Casolaro, University of Siena, Italy	277
217	IMPACT OF PROTEIN CONCENTRATION ON THE GLASS TRANSITION BEHAVIOUR OF PROTEIN-SUGAR FORMULATIONS, F. Thielmann and M. Naderi, Surface Measurement Systems Ltd, London, UK	279
218	CORRELATION OF POLYMER ENERGETICS AND DRUG RELEASE RATES, F. Thielmann, D. Burnett, S. Baumgartner, Surface Measurement Systems Ltd, London, UK	281
219	THE INVESTIGATION OF THE PARAMETERS INFLUENCING THE RELEASE OF IBUPROFEN FROM LIPID MICROSPHERES, E. Gökbulut, N. Özdemir, University of Ankara, Turkey	283
220	GMP-PRODUCTION OF LIPOSOMES – A NEW INDUSTRIAL APPROACH, A. Wagner, K. Vorauer-Uhl, H. Katinger, Polymun Scientific, Vienna, Austria	285
221	EFFECT OF THE VEHICLE ON THE PROPERTIES OF MICROPARTICLES FOR PARENTERAL ADMINISTRATION OF AMPHOTERICIN B, J.A. Sánchez-Brunete, M.A. Dea, S. Rama, F. Bolás, J.M. Alunda, S. Torrado-Santiago, J.J. Torrado, Complutense University, Madrid, Spain	287
222	PREPARATION AND CHARACTERIZATION OF BIODEGRADABLE NANOPARTICLES AND MICROSPHERES LOADED WITH CELECOXIB, M. Aberturas, J. Molpeceres, University of Alcalá, Spain	289
223	USE OF NATURAL MONOMER IN THE SYNTHESIS OF NANO- AND MICROPARTICLES OF POLYURETHANE BY SUSPENSION-POLYADDITION TECHNIQUE, B. G. Zanetti-Ramos, V. Soldi, E. Lemos-Senna and R. Borsali, Federal University of Santa Catarina, Florianópolis, Brazil	291
224	HYALURONIC ACID-MODIFIED CATIONIC LIPOSOMES, S. Arpicco, C. Surace, E. Fattal, L. Cattel, University of Turin, Italy	293
225	PENETRATION ENHANCEMENT PROPERTIES OF NANOPARTICLES BASED ON TRIMETHYLCHITOSAN, G. Sandri, M.C. Bonferoni, S. Rossi, F. Ferrari, C. Boselli, Y. Zambito, C. Caramella, University of Pavia, Italy	295
226	SELF-ASSEMBLED MICROPARTICLES OBTAINED BY CIPROFLOXACIN-CHONDROITIN SULPHATE INTERACTION. PRELIMINARY EVALUATION OF OPHTHALMIC APPLICATION, M.C. Bonferoni, G. Sandri, P. Chetoni, S. Rossi, F. Ferrari, C. Caramella, University of Pavia, Italy	297
227	DIMENSIONS OF SELF-ASSEMBLED MICROPARTICLES OBTAINED BY DRUG-POLYMER INTERACTION, E. Gavini, M.C. Bonferoni, G. Sandri, C. Caramella, P. Giunchedi, University of Pavia, Italy	299
228	FOLATE-TARGETED LIPOSOMES FOR DRUG DELIVERY, M. L. Immordino, M. Ceruti, L. Cattel, University of Turin, Italy	301
229	IN VIVO ANTITUMORAL ACTIVITY OF LIPOSOMES CONTAINING 4-(N)-STEAROYL GEMCITABINE, P. Brusa, M. L. Immordino, D. Pacchioni, F. Rocco, G. Bussolati, L. Cattel, University of Turin, Italy	303
230	COMPARISON OF IN-VITRO DISSOLUTION PROFILES OF VERAPAMIL HYDROCHLORIDE LOADED MICROSPHERES AND COMMERCIAL FORMULATION THAT OBTAINED FROM DIFFERENT DISSOLUTION MEDIA, M. Kılıçarslan, T. Baykara, University of Ankara, Turkey	305
231	NOVEL pH-SENSITIVE PROTEIC MICROSPHERES FOR ORAL DRUG DELIVERY, U. G. Spizzirri, F. Iemma, R. Muzzalupo, F. Puoci, S. Trombino, S. Leta and N. Picci, University of Calabria, Italy	307

#		Page
232	CHITOSAN MICROSPHERES AS CARRIER OF AN ANTIAMOEBIC DRUG: ROKITAMYCIN, E. Gavini, A. Mattana, G. Rassu, V. Sanna, P. Giunchedi, University of Sassari, Italy	309
233	DEVELOPMENT OF CYCLODEXTRIN BASED MICROSPHERES AS INTERACTION AGENTS TOWARDS AMILOID FIBRILS, E. Gavini, G. Rassu, G. Pirisino, T. Haukvik, P. Giunchedi, University of Sassari, Italy	311
234	NIOSOMES AS CARRIERS OF FERULIC ACID: PREPARATION AND CHARACTERISATION, S. Trombino, R. Muzzalupo, F. Iemma, F. Puoci, R. Cassano, C. M. Gareffa and N. Picci, University of Calabria, Italy	313
235	PREPARATION OF MESO-TETRAPHENYL PORPHINE LOADED POLYMERIC MICELLES AND INVESTIGATION OF THEIR EX-VIVO BEHAVIOURS AS ORAL DRUG DELIVERY SYSTEMS, Z. Sezgin, N. Yuksel, University of Ankara Turkey	315
236	5-FLUOROURACILE INCORPORATION INTO BOLAFORM SURFACTANTS VESICLES, R. Muzzalupo, F. P. Nicoletta, S. Trombino, F. Iemma, F. Puoci, M. Castiglione, E. Bloise and N. Picci, University of Calabria, Italy	317
237	MICROENCAPSULATION OF PROTEINS, L. Al Haushey, S. Briançon, M A. Bolzinger, University Claude Bernard Lyon1, France	319
238	MICROPARTICLES OF POLYMERIC NANOPARTICLES PREPARED BY MEAN OF SPRAY-DRYING PROCESS: FORMULATION ASPECTS AND PARTICLES CHARACTERISTICS, P. Tewa Tagne, S. Briançon, H. Fessi, University Claude Bernard Lyon 1, France	321
239	PREPARATION PROCESS OF COSMETIC NANOPARTICLES BY COMBINED SPONTANEOUS EMULSIFICATION AND INTERFACIAL POLYCONDENSATION, K. Bouchemal, S. Briançon, Y. Chevalier, I. Bonnet, E. Perrier, H. Fessi, University Claude Bernard Lyon 1, France	323
240	ENCAPSULATION OF MAGNETIC PARTICLES INTO CROSS-LINKED GELATIN MICROCAPSULES, A. K.A. Silva, É. L. Silva, E. E. Oliveira, A. E. Silva, A. S. Carriço, E. S. T. Egito, Federal University of Rio Grande do Norte, Brazil	325
241	INFLUENCE OF DIFFERENT LIPOPHILIC AGENTS ON THE PRODUCTION OF XYLAN MICROCAPSULES, A. E. Silva, M. G. Silva, E. E. Oliveira, T. Nagashima Jr., E. S. T. Egito, Federal University of Rio Grande do Norte, Brazil	327
242	PREPARATION OF CHITOSAN-ALGINATE MICROPARTICLES FOR MUCOSAL IMMUNIZATION, B. Sayin, A. A. Hincal, S. Senel, Hacettepe University, Turkey	329
243	QUANTITATIVE PORE SIZE CHARACTERIZATION OF MICROPARTICLES PREPARED BY THE W/O/W DOUBLE EMULSION METHOD, H. Petersen, E. John, K. Paulus, Novartis Pharma AG, Switzerland	331
244	FAST-DISSOLVING POLYMETHYLMETHACRYLATE SODIUM SALT MICROPARTICLES CONTAINING NIFEDIPINE, F. Selmin, F. Cilurzo, P. Minghetti, L. Montanari, University of Milan, Italy	333
245	A NOVEL BIO-MICROBAGS FOR SMART DRUG DELIVERY, N. V. Satheesh Madhav, H. Emdad, M. S. Uma Shankar, Pharmacy College, Azamgarh, India	335
246	RIFAMPICIN LOADED CHITOSAN MICROSPHERES AS POTENTIAL PULMONARY DELIVERY SYSTEMS FOR MAC INFECTIONS, M. L. Manca, M. Manconi, G. Loy, F. Lai, M. Zaru, A. M. Fadda, University of Cagliari, Italy	337
247	S.EQUI ENZYMATIC EXTRACT ADSORBED TO POLYCAPROLACTONE MICROSPHERES: PRODUCTION, CHARACTERIZATION AND IMMUNE RESPONSE IN MICE, H.F. Florindo, S. Pandit, L.M.D. Gonçalves, S. Somavarapu, A.J. Almeida, H.O. Alpar, University of Lisbon, Portugal	339
248	MODELING OF THE FORMATION OF MICROSPHERES USING SOLVENT EVAPORATION PROCESS, M. Li, S. El Mafadi, D. Poncelet, UMR GEPEA, ENITIAA, France	341

#		Page
249	EMPLOYING A MULTILAMINATION MICROMIXER FOR THE PREPARATION OF CHITOSAN-COATED PLGA MICROPARTICLES, S. Fischer, C. Foerg, H. P. Merkle, B. Gander, ETH Zürich, Switzerland	343
250	PLA NANOPARTICLES AS CARRIERS FOR HEPATITIS B VACCINE: EFFECT OF TPGS ON ANTIGEN LOADING AND IMMUNE RESPONSE, S.Pandit, G.Gradassi, S.Somavarapu, O.H.Alpar, University of London, UK	345
251	CHARACTERIZATION OF MESOPOROUS SILICA USED AS DRUG DELIVERY SYSTEM, A. Sousa, E. M. B. Sousa, CDTN/CNEN, Belo Horizonte, Brazil	347
252	PHYSICAL STABILITY OF ARTEMISIA ARBORESCENS L. ESSENTIAL OIL LOADED SLN AND IN VITRO ANTIVIRAL ACTIVITY, F. Lai, A. De Logu, C. Sinico, R. H. Müller, S A. Wissing, A. M. Fadda, University of Cagliari, Italy	349
253	PROTEIN ELUTING MICROPOROUS SCAFFOLD FOR TISSUE ENGINEERING APPLICATION, V. Coccoli, A. Luciani, V. Guarino, F. Causa, L. Ambrosio, P. A. Netti, University of Naples "Federico II", Italy	351
254	PREPARATION AND CHARACTERIZATION OF SELF-ASSEMBLED λ -CARRAGEENAN NANOPARTICLES, M. Oliva, J. Herrera, J. I. Oliva, University of Barcelona, Spain	353
255	ENGINEERING A MULTIFUNCTIONAL SCAFFOLD FOR SPINAL CORD REPAIR, N. K Comolli, A. M. Lowman, Drexel University, Philadelphia, USA	355
256	OPTIMIZING FORMULATION FACTORS IN PREPARATION OF MICROPARTICLES BY SPRAY-DRYING PROCESS, K. Goracinova, K. Mladenovska, M. Glavas Dodov, M. Simonoska, University "Ss Cyril and Methodius", Macedonia	357
257	EFFECT OF LIPOHILICITY OF NAPROXEN ESTERS ON PHYSICOCHEMICAL AND TECHNOLOGICAL PROPERTIES OF SLN, A.H.S. Stancampiano, I. Giannone, R. Pignatello, G. Puglisi, University of Catania, Italy	359
258	ENCAPSULATION OF A DIGESTIVE ENZYME IN SOL – GEL MATRICES, C. D. Moreira, G. de A. M. Sáfar, P. A. Robles-Dutenhefner, A. M. C. dos Santos, M. P. Bemquerer, M. M. Santoro, E. M. B. de Sousa, CDTN/CNEN, Belo Horizonte, Brazil	361
259	NOVEL POLYSACCHARIDE COATED LIPOSOMES AS DRUG CARRIERS: DEVELOPMENT AND CHARACTERIZATION, M.Carafa, C. Marianecchi, V. Annibaldi, A. Di Stefano, E. Santucci, University "G. D'Annunzio" – Chieti, Italy	363
260	PHYSICOCHEMICAL PROPERTIES OF FILM-COATED MELT-EXTRUDED PELLETS, C. Dietzsch, C. R. Young, M. Crowley, D. Sauer, J. W. McGinity, The University of Texas at Austin, USA	365
261	INCLUSION OF MICONAZOLE INTO CYCLODEXTRINS BY MEANS OF SUPERCRITICAL CARBON DIOXIDE: EFFECT OF ACIDIC TERNARY COMPOUNDS AND MOLECULAR MODELING STUDY, V. Barillaro, P. Bertholet, B. Evrard, L. Delattre, G. Dive, G. Piel, University of Liège, Belgium	367
262	TOLMETIN SODIUM LOADED EUDRAGIT S 100 MICROSPHERES: PREPARATION, IN VITRO EVALUATION AND STABILITY STUDIES, F. Laleci, S. Çalis, A. A. Hincal, Hacettepe University, Ankara, Turkey	369
263	MICROENCAPSULATION OF DRUGS IN IMPLANT COATINGS, T. Ciach, Warsaw University of Technology, Poland	371
264	STUDY OF THE EFFECTS OF PLURONIC F68 ON NIFEDIPINE MICROPARTICLES PREPARED BY HOT AIR COATING TECHNIQUE, L. Giovannelli, F. Pattarino, S. Bellomi, B. Albertini, University of Piemonte Orientale, Italy	373

XII

#		Page
265	OPTIMIZATION STUDY OF HOT AIR COATING PROCESS APPLIED TO A NIFEDIPINE-CETEARYL ALCOHOL SYSTEM, F. Pattarino, L. Giovannelli, S. Bellomi, E. Marengo, University of Piemonte Orientale, Italy	375
266	MICROENCAPSULATION OF LYSOZYME-ZINC PRECIPITATE INTO POLY (LACTIDE-CO-GLYCOLIDE) BY A MODIFIED DOUBLE EMULSION METHOD, N. Nafissi Varcheh, V. Luginbuehl, B. Gander, R. Aboofazel, R. Aboofazeli, H. P. Merkle, ETH Zurich, Switzerland	377
267	ENCAPSULATION OF A MOISTURIZING AGENT IN PLGA POLYMER FOR SITE SPECIFIC DELIVERY, A. Haddadi, R. Aboofazeli, E. S. Farboud, M. Erfan, University of Shaheed Beheshti, Tehran, Iran	379
268	PREPARATION OF SOLID LIPID MICRO AND NANO PARTICLES FROM MULTIPLE W/O/W EMULSIONS , M. Gallarate, M. Trotta, M. E. Carlotti, E. Peira , University of Turin, Italy	381
269	STUDY ON THE PHOTOSTABILITY OF OCTYL-P-METHOXY CINNAMATE IN SLN, M.E.Carlotti, S.Sapino, University of Turin, Italy	383
270	VANCOMYCIN-TRIACETYL CYCLODEXTRIN COMBINATIONS FOR PROLONGED RELEASE OF VANCOMYCIN, G. Bettinetti, M. Sorrenti, L. Catenacci, F. Ferrari, S. Rossi, University of Pavia, Italy	385
271	HOT AIR COATING OF CAFFEINE-LIPID MIXTURES, F. Pattarino, L. Giovannelli, L. Rodriguez, N. Passerini, University of Piemonte Orientale, Italy	387
272	PREPARATION AND CHARACTERIZATION OF CHITOSAN MICROBUBBLES, R. Cavalli, G. Pastore, M. Napoleone, M. Trotta, C. Guiot, University of Turin, Italy	389
273	LIPOSOMES FOR ECOPHYSIOLOGICAL STUDIES IN MARINE BIOLOGY, G. De Rosa, I. Buttino, Y. Carotenuto, A. Ianora, A. Fontana, F. Quaglia, A. Miralto, M. I. La Rotonda, University of Naples "Federico II", Italy	391
274	RESPIRABLE PLGA-MICROPARTICLES CONTAINING CYCLODEXTRIN: AN APPLICATION TO INSULIN PULMONARY DELIVERY, F. Ungaro, F. Quaglia, A. Miro, R. D'Emmanuele di Villa Bianca, R. Sorrentino, R. Sorrentino, M. I. La Rotonda, University of Naples "Federico II", Italy	393
275	MODIFICATION OF THE DRUG RELEASE OF IBUPROFEN BY HOT-MELT COATING WITH MIXES OF COMPRITOL™ 888 ATO AND NON-IONIC SURFACTANTS, V. Jannin, V. Bérard, C. Andrès, Gattefossé S.A.S, Lyon, France	395
276	CHITOSAN-BEADS LOADED WITH BOSWELLIA SERRATA EXTRACT AS PHYTOTERAPIC ANTI-INFLAMMATORY AGENT, C. Anchisi, G. Loy, M. C. Meloni, A. M. Maccioni, University of Cagliari, Italy	397
277	CHARACTERISTICS OF ONDANSETRON HCL LOADED POLY (D,L-LACTID) AND POLYLACTIDE-CO-GLYCOLIDE MICROSPHERES PREPARED BY SPRAY DRYING TECHNIQUE, Y. Ozsoy, S. Gungor, S. Erturk, University of Istanbul, Turkey	399
278	EFFECT OF CITRIC ACID AS CROSS-LINKING AGENT ON INSULIN LOADED CHITOSAN MICROSPHERES, J. Varshosaz, R. Alinagari, Isfahan University of Medical Sciences, Iran	401
279	USE OF SPRAY DRYING TO INCREASE THE BIOAVAILABILITY OF POORLY SOLUBLE DRUGS, H. Schwartzbach, Niro A/S, Soeborg, Denmark	403
280	EFFECT OF POLOXAMER MICELLES ON IN-VITRO LIDOCAINE SKIN PERMEATION AND ACCUMULATION, F. Marra, B. Vietti, C. Padula, S. Nicoli, P. Santi, University of Parma, Italy	405
281	LECITHIN-CHITOSAN NANOPARTICLES FOR THE TRANSMUCOSAL DELIVERY OF PROGESTERONE VIA CHIMERIC AGGLOMERATES, F. Sonvico, A. Rossi, S. Motta, F. Cavatorta, R. Bettini, A. Deriu, P. Colombo, University of Parma, Italy	407

XIII

#		Page
282	TRANSDERMAL DELIVERY OF PROGESTERONE FROM ISOPROPYL MYRISTATE-BASED MICROEMULSIONS, V. Aversa, P. Colombo, G. Massimo, P. Santi, University of Parma, Italy	409
283	RELEASE OPTIMISATION OF INDOMETHACIN MICROSPHERES OBTAINED BY THE ULTRASONIC SPRAY-CONGEALING TECHNIQUE, C. Cavallari, L. Rodriguez, A. Fini, University of Bologna, Italy	411
284	MICROENCAPSULATION OF SODIUM DICLOFENAC IN ALGINATE/CHITOSAN PARTICULATE SYSTEMS, M.L. Gonzalez-Rodríguez, M.A. Holgado, C. Sanchez-Lafuente, A.M. Rabasco, A. Fini, University of Bologna, Italy	413
285	ENCAPSULATION OF ALL-TRANS-RETINOIC ACID IN POLYMERIC MICELLES, A. Fini, G. Zuccari, I. Orienti, University of Bologna, Italy	415
286	NOVEL MICROGRANULATED DRUG FORMS FOR LOCAL TREATMENT OF WOUNDS, A.D. Vilesov, N.I. Eizenstadt, M.S.Vilesova, I.G.Belyaeva, R.V.Stepanov, V.N. Balin, V.V. Mikhailov, ZAO "Delsi", St. Petersburg, Russia	417
287	ENCAPSULATION OF ESSENTIAL OIL AND SEEDS WITH PLA LATEXES, F. Lakkis, G. Vanhoutte, F. Henry, M. Gaudillat, GLVT-CNRS, Thiais, France	419
288	FACTORS THAT AFFECT THE DIAMETER OF CELL-ENCLOSING SUBSIEVE-SIZE CAPSULES GENERATED IN AN IMMISCIBLE COFLOWING STREAM, S. Sakai, K. Kawabata, I. Hashimoto, T. Ono, H. Ijima, K. Kawakami, Kyushu University, Japan	421
289	KETOPROFEN LOADED ALGINATE BEADS BY LAMINAR JET BREAK-UP TECHNOLOGY, P. Del Gaudio, P. Colombo, University of Parma, Italy	423
290	FACTORS INFLUENCING THE TECHNOLOGICAL CHARACTERISTICS OF MULTIPARTICULATE DOSAGE FORMS (PELLETS) BASED ON A β -CYCLODEXTRIN/ACETAMINOPHEN COMPLEX, L. Palugan, L. Zema, A. Maroni, M. Cerea, M.E. Sangalli, F. Giordano, A. Gazzaniga, University of Milan, Italy	425
291	PNBCA-CAPSULES AND THERMALLY REVERSIBLE PLURONIC F-127 GELS AS CARRIERS FOR ENHANCED SKIN PENETRATION, S. Miyazaki, W. Kubo, D. Attwood, Health University of Hokkaido, Japan	427
292	NANOSTRUCTURED SiO_2 WITH VALPROIC ACID AS A DRUG DELIVERY MEDIA FOR EPILEPSY TREATMENT, T. López, E. I. Basaldella, J. Manjarrez, R. Ondarza, M.L. Ojeda, P. Castillo, R. Alexander-Katz, University Autónoma Metropolitana-Iztapalapa, Mexico	429
293	DETECTION OF DIPOLES IN ANTICONVULSIVE MOLECULES AND THEIR INTERACTION IN SIMPLE EPILEPSY PATIENTS, T. López, A. Hernández-Ayala, R. Alexander-Katz, J. Manjarrez, J. A. Ascencio, P. Quintana, J.J. Alvarado-Gil, R. de Coss, University Autónoma Metropolitana-Iztapalapa, Mexico	431
294	NANOSTRUCTURED MATERIALS FOR TEMOZOLAMIDE CONTROLLED RELEASE IN C6 GLIOMA CELLS MODEL, T. López, E. Ortiz, M. L. Ojeda, R. Alexander, J. Segovia, R. Ondarza, J. Manjarrez, J. Ascencio, D. Aguilar, P. Quintana, E. Basaldella, University Autónoma Metropolitana-Iztapalapa, Mexico	433
295	PHYSICAL CHARACTERIZATION AND CHEMICAL STABILITY OF AMPHOTERICIN B LOADED SOLID LIPID NANOPARTICLES, P. Jansook, W. Pichayakorn, G.C. Ritthidej, Chulalongkorn University, Thailand.	435