

LIST OF POSTERS

Posters have been grouped into categories. Rather than grouping by technologies, posters have been grouped according to end-uses and application fields. It remains a little arbitrary to select just enough categories and to assess each poster to one single category. But these categories have been selected to maximize networking and interactions between participants from different horizons.

1. Analytical Techniques

- 001 THE USE OF A BIPHASIC MEMBRANE FOR SUBSTITUTING SKIN IN *IN VITRO* PERMEATION STUDIES**
MARGARITA SHUMILOV, DENIZE AINBINDER, BIANA GODIN, ELKA TOUITOU
- 002 DEVELOPMENT AND VALIDATION OF A SPE-LC-UV METHOD FOR THE DETERMINATION OF BETAMETHASONE IN PIG SKIN**
ALINE GILLET, FREDERIC LECOMTE, VERONIQUE TASSIN, ERIC ROZET, PHILIPPE HUBERT, BRIGITTE EVRARD, GERALDINE PIEL
- 003 INFLUENCE OF RECEPTOR FLUID COMPOSITION ON PERCUTANEOUS ABSORPTION OF IBUPROFEN AND SKIN HISTOLOGY**
DOROTHÉE BOUZOUUD, LAURENT PENO-MAZZARINO, ELIAN LATI, FRANÇOISE ARNOLD
- 004 ABOUT THE USEFULNESS OF HIGH RESOLUTION ULTRASOUND IN THE EVALUATION OF THE CUTANEOUS RECOVERY PROCESS**
MARIA MADALENA PEREIRA, LUÍS MONTEIRO RODRIGUES
- 005 HOW TO ASSESS THE «HEAVY LEGS » CLAIM IN COSMETIC FORMULATIONS**
PEDRO C. PINTO, LUÍS M. RODRIGUES
- 006 APPLICATION OF A MONO-COMPARTMENTAL MODEL TO EVALUATE TCPO2 RATES IN LOW PERFUSION DYNAMICAL EXPERIMENTS**
PEDRO C. PINTO, LUÍS M. RODRIGUES
- 007 COMPARATIVE PERMEABILITY OF FRESH AND FROZEN PORCINE BUCCAL MUCOSA TOWARDS PROPRANOLOL**
S. AMORES, J. LAUROBA, A. CALPENA, J. DOMENECH, A. GIMENO
- 008 SPECTROPHOTOMETRIC INTRACUTANEOUS IMAGING (SIASCOPY) VERSUS VISUAL ASSESSMENT OF ERYTHEMA INDUCED BY METHYLNICOTINATE APPLICATION *IN VIVO***
DIAR MOHAMMED, BHARAT ODEDRA, PAUL J. MATTS., JONATHAN HADGRAFT, MAJELLA E. LANE
- 009 DETERMINATION OF COSMETIC PHYSICAL STABILITY USING ANALYTICAL TECHNIQUES**
VERA B. ISAAC, KAMILA Q. MIGLIOLI, BRUNA G. CHIARI, MARCELO G. F. ARAUJO, HÉRIDA SALGADO, RAQUEL MOREIRA, ANA SALGADO, HELENA M. RIBEIRO, PERLA RELKIN
- 010 INFRARED SPECTROSCOPIC IMAGING OF CHEMICAL CONCENTRATION, DISTRIBUTION AND DYNAMICS IN SKINCARE**
D.J. MOORE

2. Active Ingredient choices for topical routes

- 011 EFFECT OF HYDROXYPROPYLMETHYLCELLULOSE (HPMC) ON THE MOMETASONE FUROATE RELEASE FROM TOPICAL GELS**
ANA SALGADO, MAJELLA LANE, HELENA RIBEIRO
- 012 INFLUENCE OF DIFFERENT SUNSCREENS IN THE TRANSDERMAL ABSORPTION OF MELATONIN**
ESTHER TORRES, BEATRIZ CLARES, ANA CALPENA, ANA FLO

3. Natural origin Excipients and Actives

- 013 **USING NATURAL INGREDIENTS AS SUNSCREENS IN COSMETIC**
CELINE COUTEAU, BENJAMIN CHOQUENET, LAURENCE COIFFARD
- 014 **DETERMINATION OF MONOTERPENOIDES IN MELISSA FLUID EXTRACT
APPLYING TLC-UV DENSITOMETRIC METHOD**
LJILJANA ZIVANOVIC, MIRA ZECEVIC, ANA PROTIC, BILJANA JOCIC
- 015 **COMPARABLE STUDY ON ESSENTIAL OIL OF SALVIA OFFICINALIS L.
FROM DIFFERENT AREAS OF ALBANIA**
BRUNILDA MYFTARI, VILMA TOSKA, URAN ASLLANI
- 016 **MARINE DERIVED NUTRIENT IMPROVES EPIDERMAL AND DERMAL STRUCTURE
AND PROLONGS THE LIFESPAN IN RECONSTRUCTED HUMAN SKIN EQUIVALENT**
ABDOELWAHEB EL GHALBZOURI, JANA VICANOVA
- 017 **DEVELOPMENT OF EXFOLIANT FORMULATIONS CONTAINING BIOGENIC
CARBONATE SAND FROM PORTO SANTO ISLAND, MADEIRA ARCHIPELAGO**
SANTOS, D., AMARAL, M.H., PADILHA M., ANDREANI T., PENA FERREIRA, M.R., SILVA, J. B. P., C.S.F. GOMES
- 018 **FUNCTIONAL AND SENSORIAL PLANT WAX BUTTERS**
VINCENT HUBICHE, JEAN-DAVID RODIER
- 019 **NATURAL DEODORANT CONTAINING FARNESOL: EFFECT ON SKIN FLORA
GROWTH AND ENZYMATIC INHIBITION**
FERNÁNDEZ C, GALÍN, DEL POZO A, RAURICH A
- 020 **DEVELOPMENT OF A CHINESE HERBAL MEDICINE BASED TRANSDERMAL
PATCH FOR THE TREATMENT OF FRACTURE HEALING IN ANIMAL MODEL**
LI HUA PENG, CLARA BIK SAN LAU, KWOK PUI FUNG, PING CHUNG LEUNG
- 021 **IMPROVED SKIN CANCER PREVENTION BY RESVERATROL LOADED INTO
SOLID LIPID NANOPARTICLES**
JULLJANA KRISTL, KARMEN TESKAČ
- 022 **FURTHER INVESTIGATIONS OF POLYSACCHARIDES AS POTENTIAL
ANTIOXIDATIVE COMPOUNDS FOR TOPICAL ADMINISTRATION**
HAGEN TROMMER, REINHARD H.H. NEUBERT

4. Process development, Manufacturing and Quality

- 023 **GUIDELINES TO FORMULATE OTC DRUGS IN EMULSIONS FOR DERMAL DELIVERY**
E. DUBOIS, E. DAUPHIN-CHANARD, D. HOSTE, D. MARCHAUD
- 024 **REFORMULATION OF PLASMID DNA FOR PARTICLE-MEDIATED GENE TRANSFER**
YUAN PING, JIANHAI CHEN, JUN LI
- 025 **CLINICAL PRACTICE GUIDELINES AND QUALITATIVE MEASURES FOR THE
ASSESSMENT OF EFFICACY OF TOPICAL FORMULATIONS**
SÍLVIA PEDROSA, DELFIM SANTOS, ELIANA B. SOUTO
- 026 **PRELIMINARY INVESTIGATIONS FOR THE IDENTIFICATION OF SUITABLE
POLYMERIC MATERIALS FOR MICRONEEDLE FABRICATION**
*KATARZYNA MIGALSKA, DESMOND MORROW, RAJ THAKUR, HANNAH MCMILLAN,
CONOR O'MAHONEY, RYAN DONNELLY*
- 027 **INNOVATIVE NANOPARTICLES – THEOSOMES- BASED ON CUPUAÇU SEED BUTTER
(THEOBROMA GRANDIFLORUM) INTENDED FOR CUTANEOUS ADMINISTRATION**
RENATA P. RAFFIN, LETICIA M. COLOMÉ, EVELISE R. ASSUMPCÃO, ADRIANA R. POHLMANN, SILVIA S. GUTERRES

5. Physical Pharmacy - Characterization

- 028 **FORMULATION AND PHYSICO-CHEMICAL CHARACTERISATION OF AN
AFTER SHAVE OIL/WATER EMULSION CONTAINING TEA TREE OIL**
VALENTINA KARAN, JELA MILIĆ, DANINA KRAJIŠNIK
- 029 **SPREADABILITY AND EMOLLIENCY TESTING IN NANOEMULSIONS BASED
ORGANOGELES AND HYDROGELS**
DOKTOROVÁ, S., LOPES, C.M., SANTOS, D., SOUTO, E.B.

- 030 **CYCLODEXTRINS AS NATURAL CO-STABILISING AGENTS IN SUBMICRON EMULSIONS**
VICTORIA KLANG, CLAUDIA VALENTA
- 031 **FORMULATION AND STABILITY STUDY OF SEMI-SOLID W/S/W EMULSIONS CONTAINING ASCORBIC ACID**
M.H. AMARAL, K. KRAMBECK, M. R. PENNA FERREIRA, M. F. BAHIA
- 032 **ENCAPSULATION OF ETHYLHEXYL METHOXYCINNAMATE, A LIGHT-SENSITIVE UV FILTER, IN SOLID LIPID NANOPARTICLES**
DURAND L., HENSCHER V., HABRAN N., AMIGHI K.
- 033 **PHYSICO-CHEMICAL PROPERTIES AND EVALUATION OF MICROEMULSION SYSTEMS FOR TOPICAL DELIVERY OF NAPROXEN**
H. YESIM KARASULU, NESLIHAN USTUNDAG, TAMER GUNERI, GÖKHAN ERTAN
- 034 **PRELIMINARY INVESTIGATION OF *IN VITRO* PERFORMANCES OF FRAGRANCE LOADED SLN**
ILARY DELENART, MANUELA VETTOR, GLORIA BRUSOTTI, GIANLUCA GILARDONI, FRANCA PAVANETTO, GABRIELE CACCIALANZA, PAOLA PERUGINI
- 035 **PHYSICAL CHARACTERIZATION OF LIQUID CRYSTALLINE LIPID NANOSTRUCTURES FOR TOPICAL DRUG DELIVERY**
ANGELINA ANGELOVA, BORISLAV ANGELOV, VASIL M. GARAMUS, SYLVIANE LESIEUR, GENEVIÈVE LE BAS, PATRICK COUVREUR¹
- 036 **HOW TO ACHIEVE A GREAT DIVERSITY OF VEHICLES FOR DRUG DELIVERY BY USING A MINIMUM NUMBER OF INGREDIENTS**
CHANTAL AMALRIC, AUDE PUGET, JUANSHU SHEN
- 037 **PHYSICAL STABILITY AND SKIN PERFORMANCE OF ARACHIDYL BEHENYL GLUCOSIDE - BASED EMULSION VEHICLES CONTAINING DIFFERENT OILS**
ANDJELKA KOVACEVIC, SNEZANA SAVIC, JELA MILIC, GORDANA VULETA
- 038 **LIGAND DEGRADATION AND SIGNAL MOLECULES INDUCE TRANSPORTATION OF NANOPARTICLES ACROSS OIL/WATER INTERFACE**
ZHENGWEI MAO, DAYANG WANG
- 039 **DEVELOPMENT AND EVALUATION OF VESICULAR DELIVERY SYSTEM FOR EFFECTIVE DELIVERY OF BOSWELLIC ACID THROUGH SKIN**
NISHANT KUMAR GUPTA, AMRITA SHARMA, V.K. DIXIT
- 040 **THEOSOMAS PREPARED USING THEOBROMA GANDIFLORUM SEED BUTTER: A NOVEL LIPID NANOPARTICLE FOR IDEBENONE ENCAPSULATION**
LETICIA M. COLOMÉ, RENATA P. RAFFIN, EVELISE R. ASSUMPCÃO, ADRIANA R. POHLMANN, SÍLVIA S. GUTERRES
- 041 **RIGID AND RESILIENT NANOCAPSULES: PHYSICO-CHEMICAL AND STABILITY STUDIES**
LUANA A. FIEL, MARÍLIA RIZZI, MÁRCIA D. ADORNE, CRISTINA G. VENTURINI, ANDRESSA BERNARDI, ANA M. O. BATTASTINI, SÍLVIA S. GUTERRES, ADRIANA R. POHLMANN
- 042 **DEVELOPMENT, CHARACTERIZATION AND RHEOLOGICAL STUDY OF CHITOSAN HYDROGELS INTENDED FOR TOPICAL DELIVERY**
RENATA V. CONTRI, ADRIANA R. POHLMANN, SÍLVIA S. GUTERRES
- 043 **INFLUENCE OF THE ADDICTION OF THICKENING AGENTS IN AN O/W BASE EMULSION**
JEMIMA D.D. MORAES, BRUNA G. CHIARI, LETÍCIA C. CEFALI, VERA L. B. ISAAC
- 044 **EVALUATION AND RHEOLOGICAL CHARACTERIZATION OF EMULSIONS CONTAINING LIQUID CRYSTALS**
MARCOS ANTÔNIO CORRÊA, BRUNA GALDORFINI CHIARI, LETÍCIA CARAMORI CEFALI, JEMIMA DANIELA DIAS MORAES, OLÍVIA TRENCH ESPÍNDOLA, MARIA ANGÉLICA EBERT TIMAÇO, VERA LUCIA BORGES ISAAC

6. Physical pharmacy - skin barrier and hair and nail surface understanding

- 045 **EXTERNAL PERTURBATION INDUCES MODIFICATIONS OF THE SKIN BARRIER FUNCTION**
CHLOÉ MERLE, CÉCILE LAUGEL, ALI TFAYLI, EMMANUELLE CORBÉ, ARLETTE BAILLET
- 046 **ON THE MONITORING OF STRUCTURAL AND CONFORMATIONAL ORGANIZATION OF CERAMIDES: A RAMAN SPECTROSCOPY APPROACH**
EMMANUELLE GUILLARD, ALI TFAYLI, OLIVIER PIOT, CHLOÉ MERLE, CÉCILE LAUGEL, MICHEL MANFAIT, ARLETTE BAILLET-GUFFROY
- 047 **PHOTOACOUSTIC TECHNIQUE APPLIED TO *IN VIVO* SKIN RESEARCH**
PAULO ROXO BARJA
- 048 **MEASUREMENT OF NAIL PLATE SURFACE ENERGY**
SUDAXSHINA MURDAN, CHITRANJAN POOJARY
- 049 **DEPTH PROFILING OF STRATUM CORNEUM HYDRATION *IN VIVO*: A COMPARISON BETWEEN CONDUCTANCE AND CONFOCAL RAMAN SPECTROSCOPIC MEASUREMENTS**
M. BONCHEVA, J. DE STERKE, P. J. CASPERS, G. J.
- 050 **LIPID UPTAKE AND SKIN OCCLUSION FOLLOWING TOPICAL APPLICATION OF OILS ON ADULT AND INFANT SKIN**
GEORGIOS N. STAMATAS, JOHANNA DE STERKE, MATTHIAS HAUSER, OTTO VON STETTEN ANDRÉ VANDER POL
- 051 **COMPARISON OF PHYSICO-CHEMICAL PROPERTIES OF HUMAN NAIL AND BOVINE HOOF**
SARA NICOLI, CRISTINA PADULA, SUDAX MURDAN, PATRIZIA SANTI
- 052 **THE INFLUENCE OF ANATOMIC SITE, GENDER AND RACE ON SKIN PERMEABILITY**
M. MACHADO, T. SALGADO, B. BODEDRA, H. RIBEIRO, J. HADGRAFT, M. E. LANE
- 053 **HYDRATION AND LIPID LAMELLAR STRUCTURES IN HUMAN STRATUM CORNEUM**
HIROMITSU NAKAZAWA, ICHIRO HATTA, NOBORU OHTA, CHRISTOPHE CHESNE
- 054 **USE OF PHOTOTHERMAL MICROSPECTROSCOPY TO CHARACTERISE HUMAN CORNEOCYTES**
W.J. MCAULEY, J. MOFFATT, M. READING, P. BELTON
- 055 ***IN VIVO* SKIN OCCLUSION STUDY BY USING PHOTO-THERMAL RADIOMETRY, FINGERPRINT SENSORS AND AQUAFLUX**
PERRY XIAO, H SINGH, X ZHENG, EP BERG, RE IMHOF
- 056 ***IN VIVO* SKIN HYDRATION - A COMPARISON STUDY OF DIFFERENT MEASUREMENT TECHNIQUES**
PERRY XIAO, LI CIORTEA, H SINGH, X ZHENG, EP BERG, RE IMHOF
- 057 **SKIN LIGHTENING ACTIVES EVALUATED BY A COMBINED *IN SILICO* AND *IN VITRO* APPROACH**
N. DOMLOGE, J-M. BOTTO, G. MENON, C. DAL FARRA, D.J. MOORE, S. Vali
- 058 **ELECTRON MICROSCOPY AND GENE ARRAY STUDIES OF ENHANCED ACONITASE EXPRESSION IN SKIN CELLS**
N. DOMLOGE, G. MENON, S. SERRE, C. GONDRAN, E. BAUZA, C. DAL FARRA
- 059 **SKIN BARRIER LIPID MIMETIC SYSTEMS EVALUATED BY VAPOR BARRIER EFFICACY AND ELECTRON MICROSCOPY**
M. GORCEA, G. MENON, D.J. MOORE
- 060 **STRUCTURE OF DIFFERENT MODEL MEMBRANES DETERMINED BY X-RAY SCATTERING**
MONT KUMPUGDEE-VOLLRATH, HILAL BILEK, MARIA SCHULZ
- 061 **ACTIVATION OF THE UBIQUITIN-PROTEASOME SYSTEM IN KERATINOCYTES AGED *IN VITRO***
N. DOMLOGE, C. GONDRAN, A. PERRIN, C. DAL FARRA
- 062 **MECHANISMS OF STRATUM CORNEUM PENETRATION ENHANCEMENT BY TOPICAL MICROEMULSIONS**
RANIA HATHOUT, SOMMER HOLAYEL, NAHED MORTADA, AHMED GUINEIDI, RICHARD H. GUY

7. Physical pharmacy - Preformulation

- 063 **POLAR WATER/PROPYLENE GLYCOL CO-SOLVENT VEHICLES FACILITATE OPTIMUM ION-PAIR MEMBRANE PERMEATION**
F. BENAOUA, S. A. JONES, M. B. BROWN, G. P. MARTIN
- 064 **STABILITY ASPECTS OF POLOXAMER 407-BASED DRUG DELIVERY SYSTEMS IN PHOTODYNAMIC THERAPY**
C. VAN HEMELRIJCK, C. C. MÜLLER-GOYMANN
- 065 **EFFECT OF NUTRIENTS ON REACTIVE OXYGEN SPECIES, ATP AND MELANOGENESIS STATUS IN CULTURED MELANOCYTES**
NICO P.M.SMIT, JANA VICANOVA
- 066 **ACICLOVIR AND ACICLOVIR ESTER: A COMPARATIVE STUDY OF SOLUBILITY IN OLIVE OIL AND MINERAL OIL AND RELEASE PROFILE USING SYNTHETIC MEMBRANE**
SUYIN H. TRUJILLO C, RUBÉN DE REGIL, JOSÉ V SINISTERRA G, AMALIA M. RODRIGUEZ BAYÓN
- 067 **EFFECT OF NATURAL AMINOACID DERIVATIVES ON LIPOPEROXIDATION INDUCED BY TiO₂ COMMERCIAL SPECIMENS UPON UV IRRADIATION**
ELENA UGAZIO, M.EUGENIA CARLOTTI, SIMONA SAPINO
- 068 **INFLUENCE OF CELLULOSE POLYMERS ON THE PERMEATION PROFILE OF MOMETASONE FUROATE IN SKIN**
SARA RAPOSO, ANA SALGADO, MANUELA URBANO, HELENA RIBEIRO
- 069 **SOLVENT ENHANCEMENT FROM FINITE DOSE APPLICATIONS**
GABRIELA OLIVEIRA, JONATHAN HADGRAFT, MAJELLA E. LANE
- 070 **THE INFLUENCE OF A BINARY SOLVENT SYSTEM ON THE DERMAL DELIVERY OF LIDOCAINE HYDROCHLORIDE IN HUMAN SKIN**
KAZUMASA HIRATA, JONATHAN HADGRAFT, MAJELLA E. LANE
- 071 **THE EFFECT OF AMORPHOUS AND CRYSTALLINE FORMS OF CLOTRIMAZOLE FOR TOPICAL DRUG DELIVERY**
IRIS PALMER, MARC BROWN, STUART JONES, DARRAGH MURNANE, GARY MOSS, MATTHEW TRAYNOR

8. Vehicles for drug delivery

- 072 **NANOSTRUCTURED LIPID CARRIERS (NLC)-BASED HYDROGEL FORMULATION FOR TOPICAL DELIVERY OF MINOXIDIL**
SILVA, A.C., LOPES, C.M., SANTOS, D., FERREIRA, D.C., SOUTO, E.B.
- 073 **GLYCOLIC ACID HYDROGELS SKIN PERMEATION STUDIES: INFLUENCE OF THICKENERS (HYDROXYETHYLCELLULOSE AND SCLEROTIUM GUM) AND OF A PENETRATION ENHANCER (BISABOLOL)**
ANA RAMALHO, ANTÓNIO NOGUEIRA, LURDES REBELO, HELENA RIBEIRO
- 074 **PERMEATION STUDIES OF EMULSIONS CONTAINING RUTHIN AND QUERCITRIN FROM SPODIAS LUTEA**
VERA B. ISAAC, KAMILA Q. MIGLIOLI, BRUNA G. CHIARI, HÉRIDA SALGADO, RAQUEL MOREIRA ANA SALGADO, HELENA M. RIBEIRO
- 075 **ENCAPSULATION EFFICIENCY, INTEGRITY AND *IN VITRO* SKIN PERMEATION ENHANCEMENT OF DIFFERENT TYPES OF ELASTIC VESICLES**
V. NTIMENOU, S. MOURTAS, S. G. ANTIMISARIS
- 076 **DEVELOPMENT OF A NEW CUTANEOUS DELIVERY SYSTEM: DRUG IN CYCLODEXTRIN IN DEFORMABLE LIPOSOME**
ALINE GILLET, ANGELIKI GRAMMENOS, VERONIQUE TASSIN, BRIGITTE EVRARD, GERALDINE PIEL
- 077 **CHITOSAN/ALPHA-HYDROXY ACIDS HYDROGEL FORMULATIONS WITH ANTIBACTERIAL EFFICACY AGAINST PROPIONIBACTERIUM ACNES AND STAPHYLOCOCCUS AUREUS: EFFECT OF DIFFERENT CELLULOSE POLYMERS**
JOANA MARTO, SARA RAPOSO, AIDA DUARTE, HELENA RIBEIRO, ALEXANDRA N. SILVA
- 078 **INFLUENCE OF ENCAPSULATION ON SKIN PERMEATION AND DISTRIBUTION OF ETHYLHEXYL METHOXYCINNAMATE FROM MULTIPLE SUNSCREEN EMULSIONS**
ESTHER TORRES, ANA CALPENA, LYDA HALBAUT, MONTSERRAT ARÓZTEGUI AND COLOMA BARBÉ

- 079 **DEVELOPMENT OF SOFT NANOCARRIERS FROM NOVEL AMPHIPHILIC HYALURONIC ACID DERIVATIVES TOWARDS (TRANS)DERMAL DELIVERY**
C. EENSCHOOTEN, F. GUILLAUMIE-LONGIN, B. MOELHOLM MALLE, M. BORKOVEC, R. GURNY, K. SCHWACH-ABDELLAOUI

9. Dosage forms - Topical drug delivery

- 080 **DEVELOPMENT AND EVALUATION OF DIFFERENT FORMULATIONS FOR DRUG DELIVERY THROUGH THE NAIL PLATE**
JVANA VEJNOVIC, LINDA SIMMLER, GABRIELE BETZ
- 081 **GEL-LIKE MICROEMULSION FOR SIMULTANEOUS DELIVERY OF VITAMINS C AND E FOR SKIN ANTIOXIDANT PROTECTION**
BRANKA ROZMAN, FRANCOISE FALSON, MIRJANA GAŠPERLIN
- 082 **TOPICAL DELIVERY OF METHOTREXATE DEFORMABLE LIPOSOMES**
K. VANAJA, SHOBHA RANI R.H.
- 083 **CHITOSAN-TPP NANOPARTICLES AS POSSIBLE SKIN DRUG DELIVERY SYSTEM FOR ACYCLOVIR WITH ENHANCED STABILITY**
AMRA HASANOVIC, CLAUDIA VALENTA
- 084 **NEW FORMULATIONS FOR THE TREATMENT OF CORNS**
LEVENT ALPARSLAN, EKIN SAVK, ERCUMENT KARASULU
- 085 **TOPICAL DELIVERY OF COSMETIC ACTIVE INGREDIENTS FROM PICKERING EMULSIONS**
JUSTYNA FRELICHOWSKA, MARIE-ALEXANDRINE BOLZINGER, JOCELYNE PELLETIER, YVES CHEVALIER
- 086 **AN ALTERNATIVE APPROACH IN THE TREATMENT OF SCALP DISEASES: DEVELOPMENT OF A PROPELLANT-FREE FOAM FORMULATION**
ALEXANDRA ARZHAVTINA, HARTWIG STECKEL
- 087 **CHEMICAL SUNSCREEN FORMULATIONS STABILITY AND IN VITRO DELIVERY**
MARIA DE LOURDES REBELO, ISABEL REBELO
- 088 **THE EFFECT OF POLY(ETHYLENE GLYCOL) DIACRYLATE HYDROGELS ON THE EX VIVO PERMEATION OF CHITOSAN GELS**
MINE OZYAZICI, IPEK OZCAN, NAZLI SOKMEN, BUKET AKSU, FATMA AYHAN, OZGEN OZER, TAMER GUNERI
- 089 **FORMULATION AND CHARACTERISATION OF AN O/W/O MULTIPLE EMULSIONS WITH A SUNSCREEN**
MIRELA MOLDOVAN, IOAN TOMUTA, CATALINA BOGDAN
- 090 **SOLID LIPID MICROSHERE CARRYING BENZOPHENONE-3 IN SUNSCREEN FORMULATIONS**
C. BAUX, JP MESTRES, L. DURACHER, L VIAN, L. BLASCO, G MARTI-MESTRES
- 091 **OCTYL METHOCYNNAMATE AND QUERCETIN NANOCAPSULES AS PHYSICAL SUNSCREEN: A COMPARATIVE STUDY**
LUANA A. FIEL, MARÍLIA RIZZI, MÁRCIA D. ADORNE, CRISTINA G. VENTURINI, ANDRESSA BERNARDI, ANA M. O. BATTASTINI, SÍLVIA S. GUTERRES, ADRIANA R. POHLMANN
- 092 **DEVELOPMENT OF FORMULATIONS CONTAINING LIPOIC ACID-LOADED NANOCAPSULES FOR CUTANEOUS ADMINISTRATION**
IRENE CLEMES KÜLKAMP, THATIANA FERREIRA TERROSO, ADRIANA RAFFIN POHLMANN, EVELISE RODRIGUES ASSUMPTÃO, SÍLVIA STANISCUASKI GUTERRES
- 093 **LIPOSOMAL TRIAMCINOLONE ACETONIDE HYDROGEL: IN VITRO LIBERATION**
BEATRIZ CLARES, M^o DEL MAR MEDINA, ANA CALPENA, ADOLFINA RUÍZ
- 094 **FORMULATION AND EVALUATION OF A NANOGEL SYSTEM FOR THE SKIN DELIVERY OF HYALURONIDASE**
ALESSANDRA SEMENZATO, MICHELA CASELLATO, GERARDO AMABILE, ANGELA FAGA, ANDREA FRATTER

10. Dosage forms - Transdermal drug delivery

- 095 **PERCUTANEOUS PENETRATION STUDIES OF IBUPROFEN ENCAPSULATED INTO NANOPARTICLES USING DIFFERENT SKIN MEMBRANE MODELS**
CAROLINE DESTREÉ, JOHAN WOUTERS, MAGALI DELEU, MICHEL PAQUOT, MICHEL SALMON, MARC EEMAN
- 096 **TRANSDERMAL DELIVERY SYSTEM BASED ON JOJOBA OIL**
SHEREEN M. ASSAF, BASHAR M. AL-TAANI, AMANI ABU ALHAYYAL
- 097 **TRANSDERMAL DELIVERY OF KETOROLAC FROM MICROEMULSIONS BASED ON JOJOBA OIL**
BASHAR M. AL-TAANI, SHEREEN M. ASSAF, AMANI ABU ALHAYYAL
- 098 **A STUDY OF MICROEMULSION SYSTEMS FOR TRANSDERMAL DELIVERY OF NAPROXEN: EX VIVO**
H. YESIM KARASULU, NESLIHAN ÜSTUNDAG, GÖKHAN ERTAN, TAMER GUNERI
- 099 **MULIPEXED MOLECULAR PENETRATION ENHANCER (MMPET™) SYSTEMS FOR INCREASED DELIVERY OF DICLOFENAC SODIUM**
EDWARD T. KISAK, DOMINIC KING-SMITH, JOHN M. NEWSAM, PANKAJ KARANDE, SAMIR MITRAGOTRI, JAGAT SINGH
- 100 **DEVELOPMENT OF DICLOFENAC SODIUM BIOADHESIVE GEL FOR TOPICAL DELIVERY**
ISKENDER INCE, H. YESIM KARASULU, EVREN GUNDOGDU, ERCUMENT KARASULU
- 101 **CRISTALLIZATION OF MOMETASONE FUROATE: INFLUENCE OF POLYMERS ON IN VITRO PERMEATION STUDIES**
SARA RAPOSO, ANA SALGADO, MANUELA URBANO, HELENA RIBEIRO
- 102 **PERMETION OF IBUPROFEN ACROSS PIG EAR SKIN FROM BIOADHESIVE FILM: EFFECT OF CHEMICAL ENHANCERS AND OCCLUSION**
C. PADULA, M. DORONZIO, S. NICOLI, P. SANTI
- 103 **STUDY OF TRANSDERMAL PENETRATION IN VITRO OF MELATONIN**
BEATRIZ CLARES, ANA CALPENA, ADOLFINA RUÍZ
- 104 **NOVEL VENLAFAXINE PRODRUGS FOR ENHANCED PERCUTANEOUS ABSORPTION**
SHAYI SHALI, KIRSTEN STAFF, GARY MOSS
- 105 **FORMULATION OF TRANSDERMAL SYSTEMS CONTAINING CLOBETASOL PROPIONATE**
SERGIO DEL RIO SANCHO, MARIA ARACELY CALATAYUD PASCUAL, ANDRÉS FEMENÍA-FONT, LUÍS CORBÍ COLOMA, ALICIA LÓPEZ CASTELLANO
- 106 **ELASTIC LIPOSOMES BASED TRANSDERMAL DELIVERY OF MELATONIN**
VAIBHAV DUBEY, DINESH MISHRA, MANOJ NAHAR, N.K.JAIN
- 107 **MICROEMULSION FORMULATIONS FOR THE TRANSDERMAL DELIVERY OF TESTOSTERONE**
RANIA HATHOUT, SAMAR MANSOUR, NAHED MORTADA, AHMED GENEIDI, RICHARD H. GUY

11. Dermal / Topical permeation

- 108 **CUTANEOUS PENETRATION OF A PHOTO-PROTECTIVE COMPOUND TARGETING DEEP SKIN LAYERS**
PATRICK LAFITTE, THIERRY HOARAU, JEAN-FRANÇOIS NICOLAY
- 109 **TOPICAL DELIVERY OF 5-AMINOLEVULINIC ACID AND PREFORMED PHOTOSENSITISERS: IN INTRO AND IN VIVO STUDIES**
MORROW DJJ, MCCARRON PA, O'MAHOONEY C, JUZENAS P, IANI V, MOAN J, DONNELLY RF
- 110 **ENCAPSULATION OF QUERCETIN IN LIPID MICROPARTICLES: EFFECT ON PHOTOSTABILITY AND SKIN PENETRATION**
SANTO SCALLA, MATTEO MEZZENA
- 111 **DIFFERENT APPROACHES FOR IMPROVING SKIN ACCUMULATION OF CLOBETASOL-17-PROPIONATE**
TANER SENYIGIT, CRISTINA PADULA, ÖZGEN ÖZER, PATRIZIA SANTI

- 112 **MICROBIAL PENETRATION ACROSS MICRONEEDLE ARRAY-TREATED PORCINE SKIN – AN EX VIVO STUDY**
T. R. R. SINGH, MCCARRON PA, WOOLFSON AD, CONOR O'MAHONEY, DONNELLY RF
- 113 **CAFFEINE LOADED MICROSPHERES FOR SKIN TARGETING**
S. BOURGEOIS, M.A. BOLZINGER, J. PELLETIER, J.P. VALOUR, S. BRIANÇON
- 114 **SKIN PENETRATION OF CAFFEINE FROM THREE MICROEMULSIONS WITH DIFFERENT MICROSTRUCTURES**
W. NAOUL, M.-A. BOLZINGER, C. BATTIE, R. KALFAT, Y. CHEVALIER
- 115 **IN VITRO SKIN PENETRATION OF BETAMETHASONE-17-VALERATE FROM SOLID LIPID NANOPARTICLES**
LOUISE BASTHOLM JENSEN, HANNE MØRCK NIELSEN, CHARLOTTE VERMEHREN, KARSTEN PETERSSON
- 116 **THE EFFECT OF PENETRATION ENHANCERS AND SKIN MEMBRANE TYPE ON THE PERMEATION OF NAPROXEN FROM POLY(N-ISOPROPYLACRYLAMIDE) MICROGELS**
AYSU YURDASIPER, GOKHAN ERTAN, CHARLES M. HEARD
- 117 **SKIN DISPOSITION OF TERPENES AFTER APPLICATION OF COMMERCIAL PREPARATIONS**
KRZYSZTOF CAL
- 118 **IN VITRO RELEASE OF BIOADHESIVE GEL INCLUDED KETOPROFEN SOLID DISPERSION**
MINE OZYAZICI, SEDA UYSAL RENCBER, TAMER GUNERI
- 119 **TOPICAL DELIVERY OF GA(III) COMPLEXES – THE EFFECT OF META COORDINATION UPON HUMAN SKIN PERMEATION**
K. STAFF, M.B. BROWN, S.A. JONES
- 120 **INVESTIGATION OF THE DYNAMICS OF WATER AND LIDOCAINE IN A TRANSDERMAL PATCH: QENS AND IN VITRO PERMEATION**
C. PADULA, S. BARBIERI, F. SONVICO, C. CHIAPPONI, M.T. DI BARI, A. DERIU, P. SANTI
- 121 **UNDERSTANDING VEHICLE EFFECTS ON PENETRATION ENHANCEMENT USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED (ATR-FTIR) SPECTROSCOPY AND MEMBRANE DIFFUSION STUDIES**
S.J. CHAVDA, M.E. LANE, J. HADGRAFT
- 122 **PENETRATION OF STRATUM CORNEUM BY DOUBLE-LABELLED ULTRADEFORMABLE LIPOSOMES EMPLOYING A NON-OCCLUSIVE TECHNIQUE**
JORGE A. M. MONTANARI, LEANDRO A. LADO, LEONARDO RIVADENEYRA, MARIA J. MORILLA, EDER L. ROMERO
- 123 **IN VITRO SKIN PERMEATION OF A NANOENCAPSULATED CHEMICAL SUNSCREEN INCORPORATED IN DIFFERENT SEMI-SOLID VEHICLES**
KARINA PAESE, NATALY MACHADO SIQUEIRA, LUANA DE ALMEIDA FIEL, ADRIANA RAFFIN POHLMANN, SÍLVIA STANIĆUASKI GUTERRES
- 124 **POLYELECTROLYTE COMPLEXES AS POTENCIAL TRANSDERMAL DELIVERY SYSTEMS**
C. VITORINO, C.L. SILVA, A. A. C. C. PAIS, J. J. SOUSA
- 125 **NYSTATIN PERMEATION STUDIES OF THREE DIFFERENT FORMULATIONS THROUGH BUCCAL PORCINE MUCOSA**
ANA CALPENA, ESTHER TORRES, MARTA BARTRÉS, JOSÉ LUIS PARRA, CRISTINA ALONSO, ERIKA PALLARÉS
- 126 **INFLUENCE OF THREE ABSORPTION ENHANCERS: PROPYLENE GLYCOL, ISOPROPYL MYRISTATE AND SUCROSE STEARATE ON THE IN VITRO PERCUTANEOUS PERMEATION OF CAFFEINE, HYDROCORTISONE AND TESTOSTERONE**
ALESANDRO MARANGON, MONIKA KACA, UDO BOCK, ROLF DANIELS, ELEONORE HALTNER-UKOMADU
- 127 **ON THE UTILITY OF MACHINE LEARNING METHODS TO QUANTIFY PERCUTANEOUS ABSORPTION**
LUN TAK LAM, MARC BROWN, MARIA PRAPOPOULOUN, NEIL DAVEY, YI SUN, GARY MOSS
- 128 **VARIATION OF PREDICTED PERMEABILITY: A COMPARISON OF QUANTITATIVE MODELS FOR SKIN ABSORPTION**
DARREN GULLICK, PAUL COX, JOHN PUGH, GARY MOSS

- 129 **PERMEATION OF NSAID-DRUGS THROUGH SHED SNAKE SKINS**
MONT KUMPUGDEE-VOLLRATH, HILAL BILEK, TANASAIT NGAWHIRUNPAT
- 130 **ENHANCEMENT EFFECT OF PEG-STEARATES ON KETOPROFEN OR NAPROXEN SKIN PERMEABILITY THROUGH HAIRLESS MOUSE AND HUMAN SKIN**
ANTONELLA CASIRAGHI, MAURIZIO DI GRIGOLI, PAOLA MINGHETTI, FRANCESCO CILURZO, LUISA MONTANARI

12. In vitro - in vivo correlations, bioavailability and bioequivalence and theoretical models

- 131 **DERMATOPHARMACOKINETICS: DRUG CLEARANCE FROM THE STRATUM CORNEUM**
SARA NICOLI, ANNETTE L. BUNGE, M. BEGONA DELGADO-CHARRO, RICHARD H. GUY
- 132 **MODELIZATION OF THE EFFECTS OF A MIXTURE OF PRESERVATIVES IN A TOPICAL EMULSION**
YOUNES RAHALI, ANNE-MARIE PENSÉ-LHÉRITIER, CHRISTINE MIELCAREK, YAHYA BENSOUDA
- 133 **VALIDATION OF THE RECONSTRUCTED HUMAN EPIDERMIS (RHE) SKIN IRRITATION ASSAY FOR FULL REPLACEMENT OF THE DRAIZE**
C TORNIER, MH ROUX, E SACHE, JI PACHOT, C AMSELLEM, I GOULET, N ALÉPÉE, JR MEUNIER, A DE BRUGEROLLE
- 134 **TRANSDERMAL FLUX PREDICTIONS FOR HIGHLY LIPOPHILIC COMPOUNDS: COMPARISON WITH EXPERIMENTAL RESULTS**
SEVGI GUNGOR, M. BEGOÑA DELGADO-CHARRO, VALÉRIE MASINI-ETEVE, RUSSELL O. POTTS, RICHARD H. GUY
- 135 **DEVELOPMENT OF PAMPA MODEL FOR SKIN PENETRATION OF DRUGS**
BÁLINT SINKÓ, ALEX AVDEEF, KRISZTINA TAKÁCS-NOVÁK

13. Novel activated permeability devices

- 136 **ELECTROCHEMICALLY CONTROLLED TRANSDERMAL DELIVERY OF FENTANYL: SELECTION AND TIME OF VOLTAGE APPLICATION**
BRITTA SCHRÖDER, THOMAS BECKERT, ULRICH NICKEL, GEOFFREY LEE
- 137 **IONTOPHORESIS OF RANITIDINE: AN OPPORTUNITY IN PAEDIATRIC DRUG THERAPY**
ASMA DJABRI, M. BEGOÑA DELGADO-CHARRO, RICHARD H. GUY
- 138 **TRANSUNGUAL IONTOPHORESIS IN VIVO: EFFECT OF CURRENT APPLICATION ON IONIC TRANSPORT AND TRANSONYCHIAL WATER LOSS**
JULIE DUTET, M. BEGOÑA DELGADO-CHARRO
- 139 **ELECTROMAGNETOPHORESIS: POTENTIAL FOR ENHANCED SKIN PENETRATION OF DRUGS AND COSMETICS**
HEATHER AE BENSON, JEFFREY EDWARDS, GAYATHRI KRISHNAN, SARIKA NAMJOSHI
- 140 **ELECTROMAGNETOPHORESIS: POTENTIAL FOR ENHANCED SKIN PENETRATION OF PEPTIDES**
SARIKA NAMJOSHI, YAN CHEN, JEFFREY EDWARDS, HEATHER AE BENSON
- 141 **ACTIVE TRANSDERMAL PROTEIN DELIVERY THROUGH PHOTOINDUCED PRESSURE WAVES**
CARLOS SERPA, GONÇALO F. F. SÁ, LUIS G. ARNAUT
- 142 **ENHANCED TRANSDERMAL DELIVERY OF NADOLOL BY CONSTANT-CURRENT IONTOPHORESIS**
M.A. CALATAYUD-PASCUAL, C.E. SERNA-JIMENEZ, C. BALAGUER-FERNÁNDEZ, A. FEMENÍA-FONT, V. MERINO, A. LÓPEZ-CASTELLANO
- 143 **LIPID EMULSION STABILIZED BY DIFFERENT PECTINS AS A TRANSDERMAL DELIVERY**
MONT KUMPUGDEE-VOLLRATH, MAHIR DOGANGUEZEL, KANOKPORN BURAPAPADH, PORNSAK SRIAMORNSAK

14. Wound care formulation design

- 144 **COMPARISON OF TWO SEMI-OCCLUSIVE WOUND DRESSINGS OVER THE EPIDERMAL BARRIER RECOVERY**
MARIA MADALENA PEREIRA, LUÍS MONTEIRO RODRIGUES
- 145 **NOVEL CHITOSAN-HONEY OINTMENT FOR CONTROLLED RELEASE IN WOUND HEALING AND SKIN BURN**
RAM GAUD, PRAVIN SHENDE
- 146 **OPTIMIZATION AND EVALUATION OF CHITOSAN-METHYL AND ETHYL CHITOSAN COMPOSITE FILM AS SUBSTITUTE OF HUMAN BURNED SKIN**
BEHZAD SHARIF MAKHMAL ZADEH, HOSSIN AHMAD NEJAD, MOHAMMAD REZA AVADI

15. In vitro and in vivo formulation performances

- 147 **IN VITRO AND IN VIVO SKIN PERMEATION OF GLYCOLIC ACID**
V. IANNUCELLI, S. SCALIA, A. BELLINI, S. SERGI, G. COPPI
- 148 **ANTI-AGING AND ANTI-INFLAMMATORY PROPERTIES OF LOW MOLECULAR HYALURONAN**
OLIVIER PAQUATTE
- 149 **MUCOADHESIVE CHITOSAN PARTICLES AS A DELIVERY SYSTEM FOR SUBLINGUAL ALLERGY VACCINES**
NATHALIE SAINT-LU, SOPHIE TOURDOT, ALAIN RAZAFINDRATSITA, LAURENT MASCARELL, NATHALIE BERJONT, HENRI CHABRE, ANNE LOUISE, LAURENCE VAN OVERTVELT, PHILIPPE MOINGEON
- 150 **COMPLETE CHARACTERIZATION OF THE EFFECT OF A MOISTURIZER DESIGNED FOR ICHTYOSIS-PRONE SKIN**
CATARINA ROSADO, ANA LOURENÇO, PEDRO PINTO, LUÍS MONTEIRO RODRIGUES
- 151 **THE ANTI-INFLAMMATORY ACTIVITY STUDIES OF A W/O EMULSION PREPARED WITH OSTRICH OIL**
SAKINE TUNCAI, HÜSEYİN A. KARAVANA, SINEM Y. KARAVANA, AHMET ASLAN, TAMER GÜNERİ, ÖZGEN ÖZER
- 152 **FORMULATIONS EFFICACY AS TOPICAL SKIN PROTECTANTS AGAINST ORGANOPHOSPHORUS COMPOUNDS**
JOSSE DENIS, MILLERIOUX JENNIFER, CRUZ CATHERINE, BIFARELLA ROSELYNE, BAZIRE ALEXANDRE, KSOURY ZAKARIA, LEFEUVRE LUC
- 153 **EVALUATION OF ANTI-INFLAMMATORY EFFECT OF NAPROXEN MICROGELS IN RATS IN VIVO AND ON CYCLOOXYGENASE-2 IN PORCINE SKIN EX VIVO**
A.YURDASIPER, N. ABDELOUAHAB, G. ERTAN, C. M. HEARD
- 154 **COMPARISON OF THE IN VITRO RELEASE OF THE DRUG & THE BIOLOGICAL ACTIVITY OF TOPICAL FORMULATIONS CONTAINING LIPOSOME ENCAPSULATED IB**
NEFISE OZLEN SAHIN, ABDELWAHAB OMRI, WITOLD BRNIAK, TADEUSZ LIBROWSKI, SEMA ALTAN
- 155 **SKIN PERFORMANCE OF LACTOBIONIC AND GLYCOLIC ACIDS FROM EMULSION AND GEL VEHICLES: SHORT- AND LONG-TERM APPLICATION STUDIES**
MILICA LUKIC, IVANA JAKSIC, SNEZANA SAVIC
- 156 **THE COMAPRATIVE EFFECTS OF LACTOBIONIC AND GLYCOLIC ACID: AN OBJECTIVE ASSESSMENT OF SKIN PERFORMANCE UNDER OCCLUSION**
MILICA LUKIC, IVANA JAKSIC, SNEZANA SAVIC
- 157 **IN VIVO STUDY OF THE EFFECT OF COSMETIC CREAMS ON HUMAN SKIN HYDRATION KINETIC**
AMALIA M^e RODRÍGUEZ BAYÓN, AINHOA ERDOCIA ARCE
- 158 **A NOVEL APPROACH FOR INVESTIGATIONS INTO SKIN BARRIER FUNCTION AND DRUG PENETRATION**
MANFRED BODENLENZ, L.SCHAUPP, C.HÖFFERER, R.SCHALLER, F.FEICHTNER, C.MAGNES, M.SUPPAN, K.PICKL, F.SINNER, A.WUTTE, S.KORSATKO, G.KÖHLER, F.J.LEGAT, Y.HJAZI, D.NEDDERMANN, T.JUNG, T.R.PIEBER