

Research Articles

2017

- The Formation of Chimeric Nanomorphologies, as a Reflection of Naturally Occurring Thermodynamic Processes. N. Naziris, C. Demetzos, *Journal of Physics: Conference Series*, 2017, 931(1), [doi: 10.1088/1742-6596/931/1/012028](https://doi.org/10.1088/1742-6596/931/1/012028)
- Magnetic nanoparticles coated with polyarabic acid demonstrate enhanced drug delivery and imaging properties for cancer theranostic applications. M. Patitsa, K. Karathanou, Z. Kanaki, L. Tzioga, N. Pippa, C. Demetzos, D.A. Verganelakis, Z. Cournia & A. Klinakis, *Scientific Reports*, 2017, 7(1): 1-8, [doi:10.1038/s41598-017-00836-y](https://doi.org/10.1038/s41598-017-00836-y)
- Morphological diversity of blockcopolymer/lipid chimeric nanostructures. N. Naziris, N. Pippa, V. Chrysostomou, S. Pispas, C. Demetzos, M. Libera, B.Trzebicka, *Journal of Nanoparticle Research*, 2017, 19:347, [doi:10.1007/s11051-017-4021-5](https://doi.org/10.1007/s11051-017-4021-5)
- Pharmaceutical care: The driving force for patient-centered healthcare system. A. Siamidi, N. Naziris, N. Pippa, C. Demetzos, *Pharmakeftiki*, 2017, 29(2):34-41
- Physicochemical characteristics of liposomal formulation of Doctor's Formulas' food supplements in biorelevant dispersion media, N. Pippa, N. Fikioris, C. Demetzos, *Advanced Science, Engineering and Medicine*, 2017, 9(8):648-652, [doi:10.1166/ase.m.2017.2048](https://doi.org/10.1166/ase.m.2017.2048)
- Design and development of multi-walled carbon nanotube-liposome drug delivery platform, N.Pippa, D.D. Chronopoulos, D. Stellas, R. Fernandez-Pachero, R. Arenal, C. Demetzos, N. Tagmatarchis, *Int. J. Pharmaceutics*, 2017, 528(1-2):429-439, [doi:10.1016/j.ijpharm.2017.06.043](https://doi.org/10.1016/j.ijpharm.2017.06.043)

- The significance of drug to lipid ratio to the development of optimized liposomal formulation, M. Chountoulesi, N. Naziris, N. Pippa, C. Demetzos, J. Liposome Res, 2017, In press, [doi:10.1080/08982104.2017.1343836](https://doi.org/10.1080/08982104.2017.1343836)
- Innovative drug nanocarriers by incorporating thermoresponsive polymer in phospholipid bilayer, A. Tzani, N. Naziris, N. Pippa, S. Pispas, C. Demetzos, Global Drugs and Therapeutics, 2017, 2(6):1-5, [doi: 10.3109/08982104.2016.1166512](https://doi.org/10.3109/08982104.2016.1166512)
- Advances and perspectives in cancer nanotherapy. The added value of nanocarriers. C. Demetzos, N.Pippa, S. Pispas, Current Nanomedicine, 2017, 7(3):170-190, [doi: 10.2174/2468187307666170411101920](https://doi.org/10.2174/2468187307666170411101920)
- Lipid bilayers incorporated violacein: Differential Scanning Calorimetry as analytical tool for preformulation studies, P. Loukopoulos, N. Pippa, C. Demetzos, A. Kanavouras, Advanced Science, Engineering and Medicine, 2017, 9(3):212-220 [doi:10.1166/ asem.2017.1985](https://doi.org/10.1166/ asem.2017.1985)
- Lysozyme complexes with thermo-and pH-responsive PNIPAM-b-PAA block copolymers, N Pippa, A. Meristoudi, S. Pispas, C. Demetzos, Journal of Nanoparticle Research, 2017, 19(2):76, [doi: 10.1007/s11051-017-3782-1](https://doi.org/10.1007/s11051-017-3782-1)
- Design and development of pH sensitive liposomes by evaluating the thermotropic behavior of their chimeric bilayers. A. Kyrili, M. Chountoulesi, N. Pippa, A. Meristoudi, S. Pispas, C. Demetzos, Journal of Thermal Analysis and Calorimetry, 2017, 127(2):1381-1392, [doi: 10.1007/s10973-016-6069-3](https://doi.org/10.1007/s10973-016-6069-3)
- Pharmaceutical Compounding: Recent Advances, lessons learned and Future Perspectives, A. Siamidi, N. Pippa, C. Demetzos, Global Drugs and Therapeutics, 2017, 2(2):1-3
- Microbial biosensors to monitor the encapsulation effectiveness of Doxorubicin in chimeric advanced Drug Delivery Nano Systems: A calorimetric approach.

Gardikis K., Signorelli M., Ferrario C., Schiraldi A., Fortina M.G., Hatziantoniou S., Demetzos C., Fessas D., International Journal of Pharmaceutics, 2017, 516(1-2):178-18, [doi: 10.1016/j.ijpharm.2016.11.033](https://doi.org/10.1016/j.ijpharm.2016.11.033)

- The modulation of physicochemical characterization of innovative liposomal platforms: The role of the grafted thermosensitive polymers. M. Chountoulesi, A. Kyrili, N. Pippa, A. Meristoudi, S. Pispas, C. Demetzos, Pharmaceutical Development and Technology, 2017, 22(3):330-335, [doi: 10.3109/10837450.2015.1121497](https://doi.org/10.3109/10837450.2015.1121497)
- Evaluation of the physicochemical characteristics of liposomal formulations of Doctor's Formulas food supplements, N. Pippa, N. Fikioris, C. Demetzos, Advanced Science, Engineering and Medicine, 2017, 9(2):148-154, [doi: 10.1166/ asem.2017.1973](https://doi.org/10.1166/ asem.2017.1973)
- Mixed lipid/polymer nanostructures: from advanced materials to drug delivery systems. N. Pippa, A. Skandalis, S. Pispas, C. Demetzos, M. Libera, A. Marcinkowski, B. Trzebicka, Advanced Materials Letters, 2017, 8(4):428-434, [doi: 10.5185/ amlett.2017.1414](https://doi.org/10.5185/ amlett.2017.1414)
- Chronobiotic hormone melatonin: comparative in vitro release studies from matrix tablets and liposomal formulation. A. Zampakola, A. Siamidi, N. Pippa, C. Demetzos, M. Vlachou, Letters in Drug Design and Discovery, 2017, 14(4):476-480, [doi: 10.2174/1570180813666161006162246](https://doi.org/10.2174/1570180813666161006162246)
- Preparation and physicochemical characterization of polyelectrolyte complexes incorporating antitumor peptide. N. Pippa, G. Mountrichas, S. Pispas, G. Sivolapenko, Journal of Nanoscience and Nanotechnology, 2017, 17(7):4901-4906, [doi:10.1166/ jnn.2017.13738](https://doi.org/10.1166/ jnn.2017.13738)

2016

- Chimeric lipid/block copolymer nanovesicles: physicochemical and biocompatibility evaluation, N. Pippa, D. Stellas, A. Skandalis, S. Pispas, C. Demetzos, M. Libera, A. Marcinkowski, B. Trzebicka, *European Journal of Pharmaceutics and Biopharmaceutics*, 2016, 107: 295-309, doi: [10.1016/j.ejpb.2016.08.003](https://doi.org/10.1016/j.ejpb.2016.08.003)
- Stimuli-responsive survey of Hellenic Pharmaceutical Society to detect learning attitudes and needs of Greek pharmacists towards Continuing Professional Development (CPD). C. Demetzos, A. Tsantili, E. Skaltsa, A. Siamidi, G. Koutepas, N. Pippa, K. Gardikis, I. Chinou, O. Tzakou, S. Hantziantoniou, K. Ghirtis. *European Journal of Pharmaceutical Sciences*, 2016, 93:I-IV, doi: [10.1016/S0928-0987\(16\)30365-7](https://doi.org/10.1016/S0928-0987(16)30365-7)
- Stimuli-responsive drug delivery nanosystems: from bench to clinic, N. Naziris, N. Pippa, S. Pispas, C. Demetzos, *Current Nanomedicine*, 2016, 6(3):166-185, doi: [10.2174/2468187306666160712232449](https://doi.org/10.2174/2468187306666160712232449)
- Design and development of pH-responsive HSPC:C₁₂H₂₅-PAA chimeric liposomes. N. Naziris, N. Pippa, A. Meristoudi, S. Pispas, C. Demetzos, *Journal of Liposome Research*, 2017, 27(2):108-117, doi: [10.3109/08982104.2016.1166512](https://doi.org/10.3109/08982104.2016.1166512)
- Innovative Excipients and Formulation Platforms in Cosmetic Product Series for Acne (ACNOFIX®): The Physiochemical Characteristics of Cosmeceutical Vehicle, N. Pippa, I. Tseti, C. Demetzos, *Advanced Science, Engineering and Medicine*, 2016, 8(4):284-289, doi: [10.1166/ asem.2016.1861](https://doi.org/10.1166/ asem.2016.1861)
- Polymer self-assembled nanostructures as innovative drug nanocarrier platforms. N. Pippa, S. Pispas, C. Demetzos, *Curr. Pharm. Des.*, 2016, 22(19):2788-95, doi: [10.2174/1381612822666160217141232](https://doi.org/10.2174/1381612822666160217141232)

- Efficacy of a new heparan sulfate mimetic dressing in the healing of foot and lower-extremity ulcerations in type 2 diabetes: A case series. N. Papanas, C. Demetzos, N. Pippa, E.Maltezos, N. Tentolouris, *Int. J. Low Extrem. Wounds.*, 2016, 15(1):63-7, [doi: 10.1177/1534734616629302](https://doi.org/10.1177/1534734616629302)
- A dual stimuli-responsive polymer into phospholipid membranes: a thermotropic approach. I. Kolman, N. Pippa, A. Meristoudi, S. Pispas, C. Demetzos. *Journal of Thermal Analysis and Calorimetry*, 2016, 123(3):2257-2271, [doi:10.1007/s10973-015-5080-4](https://doi.org/10.1007/s10973-015-5080-4)
- Preparation and physicochemical characterization of liposomes incorporating flavonoids (quercetin, rutin and genistein). E.G.Angelopoulou, N.Giatagana, S.Xiroudaki, N.Pippa, C.Demetzos, *Pharmakeftiki*, 2016, 28(2):92-100, [doi: 10.4103/2231-4040.184591](https://doi.org/10.4103/2231-4040.184591)
- Cerasomes as innovative excipients in cosmetic product: “Pregnaderm extreme hydration body cream”: a physicochemical study. N. Pippa, G. Mountrichas, I. Tseti, C. Demetzos, *Advanced Science, Engineering and Medicine*, 2016, 8(1):26-30, [doi:10.1166/ asem.2016.1799](https://doi.org/10.1166/ asem.2016.1799)
- Calorimetric study on pH-responsive block copolymer grafted lipid bilayers: Rational design and development of liposomes. N. Pippa, M. Chountoulesi, A. Kyrili, A. Meristoudi, S. Pispas, C. Demetzos, *Journal of Liposome Research*, 2016, 26(3):211-220, [doi:10.3109/08982104.2015.1076464](https://doi.org/10.3109/08982104.2015.1076464)
- Antibody-Drug conjugates: a mini-review. The synopsis of two approved drugs. A. Papachristos, N. Pippa, C. Demetzos, G. Sivolapenko, *Drug Delivery*, 2016, 23(5):1662-1666, [doi: 10.3109/10717544.2014.998323](https://doi.org/10.3109/10717544.2014.998323)

2015

- Delivery nanoparticle platform of liposomes – incorporated dendrimers: physicochemical, and thermotropic characterization, N. Pippa, S. Pispas, C. Demetzos, *Advanced Science, Engineering and Medicine*, 2015, 7(9):805-810, [doi:10.1166/ asem.2015.1761](https://doi.org/10.1166/ asem.2015.1761)
- Complexation of cationic-neutral block polyelectrolyte with insulin and in vitro release studies. N. Pippa, M. Karayianni, S. Pispas, C. Demetzos, *Int. J. Pharm.*, 2015, 491(1-2):136-143, [doi: 10.1016/j. ijpharm.2015.06.013](https://doi.org/10.1016/j. ijpharm.2015.06.013)
- Insulin/Poly(ethylene glycol)-*block*-poly(L-lysine) Complexes: Physicochemical Properties and Protein Encapsulation. N. Pippa, R. Kalinova, I. Dimitrov, S.Pispas, C.Demetzos, *J Phys Chem B*, 2015, 119(22):6813-9, [doi: 10.1021/acs. jpcb.5b01664](https://doi.org/10.1021/acs. jpcb.5b01664)
- Temperature-dependent drug release from DPPC:C₁₂H₂₅-PNIPAM-COOH liposomes: control of the drug loading / release by modulation of the nanocarriers' components. N. Pippa, A. Meristoudi, S. Pispas, C. Demetzos, *International Journal of Pharmaceutics*, 2015, 485(1-2):374-382, [doi: 10.1016/j. ijpharm.2015.03.014](https://doi.org/10.1016/j. ijpharm.2015.03.014)
- Fractal geometry as a new approach for proving nanosimilarity: a reflection note. C. Demetzos, N. Pippa, *International Journal of Pharmaceutics*, 2015, 483(1-2):1-5, [doi: 10.1016/j. ijpharm.2015.02.008](https://doi.org/10.1016/j. ijpharm.2015.02.008)
- Antibiotic prescription practices of pediatricians and pediatric residents in hospital care in Greece. Geitona M., Souliotis K., Saridi M.m Demetzos C. *Current Drug Safety* 2015, 10(3): 221-226, [doi:10.2174/1574886310666150602150619](https://doi.org/10.2174/1574886310666150602150619)
- The metastable phases as modulators of biophysical behavior of liposomal membranes: The role of biomolecular sculpture of polymeric guest. N. Pippa, S.

Pispas, C. Demetzos, *Journal of Thermal Analysis and Calorimetry*, 2015, 120:937-945, [doi: 10.1007/s10973-014-4116-5](https://doi.org/10.1007/s10973-014-4116-5)

- Liposomal forms of anticancer agents beyond anthracyclines: Present and Future perspectives. A. Papachristos, N. Pippa, K. Ioannidis, G. Sivolapenko, C. Demetzos, *Journal of Liposome Research*, 2015, 25(2):166-73, [doi: 10.3109/08982104.2014.950277](https://doi.org/10.3109/08982104.2014.950277)
- Biophysics and Thermodynamics: The Scientific Building Blocks of Bio-inspired Drug Delivery Nano Systems. Demetzos C. *AAPS PharmSciTech*, 2015, 16(3): 491-495, [doi: 10.1208/s12249-015-0321-1](https://doi.org/10.1208/s12249-015-0321-1)
- Advanced drug delivery nanosystems: Perspectives and regulatory issues, Demetzos C. *Advances in Experimental Medicine and Biology* 2015, 822: 195-198, [doi: 10.1007/978-3-319-08927-0_22](https://doi.org/10.1007/978-3-319-08927-0_22)
- The innovations in science and technology as a demand for bio-better medicines in Europe. Demetzos C. *Advances in Experimental Medicine and Biology*, 2015, 822: 203-208, [doi: 10.1007/978-3-319-08927-0_25](https://doi.org/10.1007/978-3-319-08927-0_25)
- The safety of biological medicines for Rheumatoid Arthritis, Papadopoulos I., Demetzos C., Markantoni-Kyroudi S., Souliotis K. *Advances in Experimental Medicine and Biology* 2015, 822: 209-210, [doi: 10.1007/978-3-319-08927-0_26](https://doi.org/10.1007/978-3-319-08927-0_26)
- Characterization of new drug delivery nanosystems using atomic force microscopy. E. Spyratou, E.A. Mourelatou, C. Demetzos; M. Makropoulou, A. A. Serafetinides, *Proc. SPIE 9447, 18th International School on Quantum Electronics: Laser Physics and Applications*, 944714 (8 January 2015); [doi: 10.1117/12.2178483](https://doi.org/10.1117/12.2178483)
- Measurements of liposome biomechanical properties by combining line optical tweezers and dielectrophoresis, Spyratou E., Cunaj E., Tsigaridas G., Mourelatou

E.A., Demetzos, C. , Serafetinides A.A., Makropoulou M., Journal of Liposome Research, 2015, 25(3): 202-210, [doi: 10.3109/08982104.2014.987784](https://doi.org/10.3109/08982104.2014.987784)

2014

- The contribution of “omics” to the development of new medicines. N. Pippa, C. Demetzos, *Pharmakeftiki*, 2014, 26, IV, 128-134.
- The alliance between nanotechnology, biosciences and regulatory agencies promotes innovative medicines. The signaling pathways from Greece. C. Demetzos, N. Pippa, *Pharakeftiki*, 2014, 26:57-65
- Special Chapter on Current Advancement of Thermal Analysis with Special Focus on Bio- and Pharmaceutical Researches from the Mediterranians, Demetzos C. *Journal of Thermal Analysis and Calorimetry*, 2014, 116(1):1-3, [doi: 10.1007/s10973-013-3616-z](https://doi.org/10.1007/s10973-013-3616-z)
- Fractal analysis as a complementary approach to predict the stability of drug delivery nano systems in aqueous and biological media: A regulatory proposal or a dream? C. Demetzos, N. Pippa, *International Journal of Pharmaceutics*, 2014, 473(1-2):213-218, [doi: 10.1016/j.ijpharm.2014.07.015](https://doi.org/10.1016/j.ijpharm.2014.07.015)
- Preparation, development and in vitro release evaluation of Amphotericin B-loaded amphiphilic block copolymer vectors. N. Pippa, M. Mariaki, S. Pispas, C. Demetzos, *International Journal of Pharmaceutics*, 2014, 473:80-86, [doi: 10.1016/j.ijpharm.2014.07.001](https://doi.org/10.1016/j.ijpharm.2014.07.001)
- The interplay between the rate of the release from polymer grafted liposomes and their fractal morphology. N. Pippa, A. Dokoumetzidis, S. Pispas, C. Demetzos, *International Journal of Pharmaceutics*, 2014, 465:63-69, [doi: 10.1016/j.ijpharm.2014.02.010](https://doi.org/10.1016/j.ijpharm.2014.02.010)
- The imaging and the fractal metrology of chimeric liposomal Drug Delivery nano Systems: The role of macromolecular architecture of polymeric guest. N. Pippa, S. Pispas, C. Demetzos, *Journal of Liposome Research*, 2014, 24(3):223-9, [doi: 10.3109/08982104.2014.891232](https://doi.org/10.3109/08982104.2014.891232)

- Gradient block copolymer structures as drug nanocarriers. N. Pippa, E. Kaditi, S. Pispas, C. Demetzos, *Advanced Science, Engineering and Medicine*, 2014, 6(6):642-648, [doi: 10.1166/ asem.2014.1554](https://doi.org/10.1166/ asem.2014.1554)
- PEO-b-PCL grafted DPPC liposomes: physicochemical characterization and stability studies of novel bio-inspired advanced Drug Delivery nano Systems (aDDnSs). N. Pippa, E. Deli, E. Mentzali, S. Pispas, C. Demetzos, *Journal of Nanoscience and Nanotechnology*, 2014, 14:5676-5681, [doi: 10.1039/C3SM27447K](https://doi.org/10.1039/C3SM27447K)
- The physicochemical/thermodynamic balance of advanced drug liposomal delivery systems. N. Pippa, K. Gardikis, S. Pispas, C. Demetzos, *Journal of Thermal Analysis and Calorimetry*, 2014, 116(1): 99-105, [doi: 10.1007/s10973-013-3406-7](https://doi.org/10.1007/s10973-013-3406-7)
- Advanced Drug Delivery nano Systems (aDDnSs): A Mini-Review. C. Demetzos, N. Pippa, *Drug Delivery*, 2014, 21(4):250-257, [doi: 10.3109/10717544.2013.844745](https://doi.org/10.3109/10717544.2013.844745)
- Preparation of liposomal nanoparticles incorporating TBH. *In vitro* drug release studies. C.Koutsoulas, N. Pippa, C.Demetzos, M.Zabka, *Journal of Nanoscience and Nanotechnology*, 2014, 14(6): 4529-4533, [PMID: 24738424](https://pubmed.ncbi.nlm.nih.gov/24738424/).

2013

- Advanced nanocarriers for an antitumor peptide. N. Pippa, S. Pispas, C. Demetzos, G. Sivolapenko, J Nanopart Res, 2013, 15(11),2062, [doi: 10.1007/s11051-013-2062-y](https://doi.org/10.1007/s11051-013-2062-y)
- The thermotropic behavior of chimeric liposomes as the mechanistic explanation of drug release. N. Pippa, S. Pispas, K. Gardikis, C. Demetzos, Pharakeftiki, 2013, 25(3): 94-99.
- On the ubiquitous presence of fractals and fractal concepts in Pharmaceutical Sciences: A Review. N. Pippa, A. Dokoumetzidis, C. Demetzos, P. Macheras, International Journal of Pharmaceutics, 2013, 456(2):340-352, [doi:10.1016/j.ijpharm.2013.08.087](https://doi.org/10.1016/j.ijpharm.2013.08.087)
- Advanced therapies: New guidelines and the approval process C. Demetzos, N. Pippa, Y. Tountas, Pharakeftiki, 2013, 25, II, 49-54.
- DPPC/poly(2-methyl-2-oxazoline)-grad-poly(2-phenyl-2-oxazoline) chimeric nanostructures as potential drug nanocarriers. N.Pippa, E. Kaditi, S. Pispas, C. Demetzos, J. Nanopart. Res. 2013. 15,1685, [doi:10.1007/s11051-013-1685-3](https://doi.org/10.1007/s11051-013-1685-3)
- The shape/morphology balance: A study of stealth liposomes via fractal analysis and drug encapsulation. N.Pippa, F. Psarommati, S. Pispas, C. Demetzos, Pharmaceutical Research, 2013, 30(9):2385-95, [doi: 10.1007/s11095-013-1082-8](https://doi.org/10.1007/s11095-013-1082-8).
- Incorporation of dimethoxycurcumin into charged liposomes and the formation kinetics of fractal aggregates of uncharged vectors. M. Hadjidemetriou, N. Pippa, S. Pispas, C. Demetzos, Journal of Liposome Research, 2013, 23(2):94-100, [doi: 10.3109/08982104.2012.747534](https://doi.org/10.3109/08982104.2012.747534)
- PEO-b-PCL/DPPC chimeric nanocarriers: self-assembly aspects in aqueous and biological media and drug incorporation. N.Pippa, E. Kaditi, S. Pispas, C. Demetzos Soft Matter, 2013, 9:4073-4082, [doi: 10.1039/C3SM27447K](https://doi.org/10.1039/C3SM27447K)

- DPPC:MPO_x chimeric advanced Drug Delivery nanosystems (chi-aDDnSs): physicochemical and structural characterization, stability and drug release studies. N.Pippa, M. Merkouraki, S. Pispas, C. Demetzos, International Journal of Pharmaceutics, 2013, 450(1-2),1-10, [doi: 10.1016/j.ijpharm.2013.03.052](https://doi.org/10.1016/j.ijpharm.2013.03.052)

2012

- Fractal analysis of liposomal aggregation, N. Pippa, C. Demetzos, *Pharakeutiki*, 2012, 24,III,57-62.
- The role of ζ -potential on the stability of nanocolloidal systems. C. Koutsoulas, N. Pippa, C. Demetzos, M. Zabka, *Pharmakeftiki*, 24 IV, 106-111, 2012
- The delineation of the morphology of charged liposomal vectors via a fractal analysis in aqueous and biological media: physicochemical and self-assembly studies, N. Pippa, S. Pispas, C. Demetzos, *International Journal of Pharmaceutics*, 2012, 437, 264-274, [doi: 10.1016/j.ijpharm.2012.08.017](https://doi.org/10.1016/j.ijpharm.2012.08.017)
- The fractal hologram and elucidation of the structure of liposomal carriers in aqueous and biological media. N. Pippa, S. Pispas, C. Demetzos, *International Journal of Pharmaceutics*, 2012, 430(1-2):65-73, [doi: 10.1016/j.ijpharm.2012.03.048](https://doi.org/10.1016/j.ijpharm.2012.03.048)
- The Formalism of Fractal Aggregation Phenomena of Colloidal Drug Delivery Systems. N. Pippa, C. Demetzos, E. Danezis, *Journal of Liposomes Research*, 2012, 22(1):55-61, [doi: 10.3109/08982104.2011.590142](https://doi.org/10.3109/08982104.2011.590142)
- Preparation and Thermal Behavior of Liposomal Nanoparticles Incorporating Bioactive Labdane Epimers. N. Pippa, S. Hatziantoniou, E.A. Mourelatou, J. M. Amaro-Luis, D. Villalobos-Osorio, C. Demetzos, *AdvancedScienceLetters*, 2012, 16, 336-341, [doi: 10.1166/asl.2012.3277](https://doi.org/10.1166/asl.2012.3277)
- Biophotonic techniques for manipulation and characterization of drug delivery nanosystems in cancer therapy, Spyratou E., Makropoulou M., Mourelatou E.A., Demetzos C. *Cancer Letters*, 2012, 327(1-2), 111-122, [doi: 10.1016/j.canlet.2011.12.039](https://doi.org/10.1016/j.canlet.2011.12.039)

- Dendrimers and the development of new complex nanomaterials for biomedical applications, K. Gardikis, M. Micha-Skretta, C. Demetzos, B. Steele, *Current Medicinal Chemistry*, 2012, 19(29):419-28, doi: [10.2174/0929867311209024913](https://doi.org/10.2174/0929867311209024913)
- Amphiphilic gradient copolymers of 2-methyl- and 3-phenyl-2-oxazoline: self-organization in aqueous media and drug encapsulation, Y. Milonaki, E. Kaditi, S. Pispas, C. Demetzos, *Journal of Polymer Science Part A: Polymer Chemistry*, 2012, 50(6):1226-1237, doi: [10.1002/pola.25888](https://doi.org/10.1002/pola.25888)
- Biophotonic techniques for manipulation and characterization of drug delivery nanosystems in cancer therapy, E. Spyratou, M. Makropoulou, E. Mourelatou, C. Demetzos, *Cancer Letters*, 2012, 327(1-2):111-122, doi: [10.1016/j.canlet.2011.12.039](https://doi.org/10.1016/j.canlet.2011.12.039)
- Effect of phosphorus dendrimers with lipid membranes, M. Ionov, D. Wrobel, K. Gardikis, S. Hatziantoniou, C. Demetzos, J.P.Majoral, B. Klajnert, M. Bryszewska, *Chemistry of Physics and Lipids (CPL)*, 2012, 165(4):408-413, doi: [10.1016/j.chemphyslip.2011.11.014](https://doi.org/10.1016/j.chemphyslip.2011.11.014)
- In vitro activity of dietary flavonol congeners against human cancer cell lines, C. Tsimplouli, C. Demetzos, M. Hadzopoulou-Cladara, P. Pantazis, K. Dimas, *European Journal of Nutrition*, 2012, 51(2):181-90, doi: [10.1007/s00394-011-0204-5](https://doi.org/10.1007/s00394-011-0204-5)
- Chimeric advanced drug delivery nanosystems for shikonin combining dendritic and liposomal technology, K. Kontogiannopoulos, A. Assimopoulou, S. Hatziantoniou, K. Karatasos, C. Demetzos, V.P. Papageorgiou, *International Journal of Pharmaceutics* in press, 2012, 422(1-2):381-9, doi: [10.1016/j.ijpharm.2011.09.031](https://doi.org/10.1016/j.ijpharm.2011.09.031)

2011

- The labdane diterpene sclareol induces apoptosis in human tumor cell lines and suppression of tumor growth in vivo via a p53-independent mechanism action, L.G.Mahaira, C. Tsimplouli, N. Sakellaridis, K. Alevizopoulos, C. Demetzos, Z. Han, P. Pantazis, K.Dimas, *European Journal of Pharmacology*, 2011, 666(1-3):173-182, [doi: 10.1016/j.ejphar.2011.04.065](https://doi.org/10.1016/j.ejphar.2011.04.065)
- Type and location of interactions between hyperbranched polymers and liposomes as composites of a new advanced drug delivery nanosystem (aDDnS), E. Mourelatou, D. Libster, I. Nir, S. Hatziantoniou, A. Aserin, N. Garti, C. Demetzos, *Journal of Physical Chemistry B*, 2011, [doi: 10.1021/jp1123458](https://doi.org/10.1021/jp1123458)
- Interactions of phosphorus-containing dendrimers with liposomes, D. Wrobel, M. Ionov, K. Gardikis, C. Demetzos, J.P.Majoral, B.Palecz, B. Klajnert, M. Bryszewska, *BBA-MOLECULAR AND CELL BIOLOGY OF LIPIDS*, 2011, 1811: 221-226, [doi: 10.1016/j.bbalip.2010.11.007](https://doi.org/10.1016/j.bbalip.2010.11.007)
- A new chimeric advanced drug delivery nanosystem (aDDnS) composed of PAMAM G 3.4 dendrimer and liposomes as doxorubicin's carrier. In vitro pharmacological studies, K. Gardikis, D. Fessas, M. Signorelli, K. Dimas, C. Tsimplouli, M. Ionov, C. Demetzos, *Journal of Nanoscience and Nanotechnology*, 2011, 11: 1-9, [doi: 10.1166/jnn.2011.3847](https://doi.org/10.1166/jnn.2011.3847)
- Interaction of cationic phosphorus dendrimers (cpd) with charged and neutral lipid membranes, M. Ionov, D. Wrobel, K. Gardikis, S. Hatziantoniou, H. Mourelatou, J.P. Majoral, M. B. Klajnert, M. Bryszewska, C. Demetzos, *Colloids and Surfaces B: Biointerfaces*, 2011, 82: 8-12, [doi: 10.1016/j.colsurfb.2010.07.046](https://doi.org/10.1016/j.colsurfb.2010.07.046)

2010

- Thermodynamic and structural characterization of liposomal – locked in-dendrimers as drug carriers, K. Gardikis, S. Hatziantoniou, M. Signorelli, M. Pusceddu, M. Micha-Screttas, A. Schiraldi, C. Demetzos, D. Fessas, *Colloids and Surfaces B: Biointerfaces*, 2010, 81 (1): 11-19, [doi: 10.1016/j.colsurfb.2010.06.010](https://doi.org/10.1016/j.colsurfb.2010.06.010)
- New chimeric advanced drug delivery nanosystems (chi-aDDnSs) as doxorubicin carriers, K. Gardikis, C. Tsimplouli, K. Dimas, M. Micha-Skretta, C. Demetzos, *International Journal of Pharmaceutics* 2010, 402: 231-237, [doi: 10.1016/j.ijpharm.2010.10.007](https://doi.org/10.1016/j.ijpharm.2010.10.007)
- Preparation and characterization of lyophilized EGGpc liposomes incorporating curcumin and evaluation of its activity against colorectal cancer cell lines, M. Pandelidou, K. Dimas, A. Georgopoulos, S. Hatziantoniou, C. Demetzos, *Journal of Nanoscience and Nanotechnology*, 2010, 10: 1-8, [doi: 10.1166/jnn.2011.3093](https://doi.org/10.1166/jnn.2011.3093)
- β -lactam functionilized poly(isoprene-b-ethylene oxide) amphiphilic block copolymer micelles as a new nanocarrier system for curcumin, K. Gardikis, K. Dimas, A. Georgopoulos, S. Pispas, E. Kaditi, C. Demetzos, *Current Nanoscience*, 2010, 6 (3):277-284, [doi: 10.2174/157341310791171090](https://doi.org/10.2174/157341310791171090)
- New drug delivery nanosystem combining liposomal and dendrimeric technology (liposomal locked-in dendrimers) for cancer therapy, K. Gardikis, S. Hatziantoniou, M. Bucos, D. Fessas, M. Signorelli, T. Felekis, M. Zervou, C. Skrettas, B. Steele, M. Ionov, M. Micha-Skretta, B. Klajnert, M. Bryszewska, C. Demetzos *Journal of Pharmaceutical Sciences*, 2010, 99(8): 3561-71, [doi: 10.1002/jps.22121](https://doi.org/10.1002/jps.22121)
- Development and characterization of oligonucleotide-tagged dye encapsulating EPC/DPPG liposomes. E. Mourelatou, E. Spyratou, A. Georgopoulos, M. Makropoulou, E. Liandris, M. Gazouli, J. Ikonopoulos, C. Demetzos, *Journal*

of Nanoscience and Nanotechnology, 2010, 10 (9): 5548-5556, [doi: 10.1166/jnn.2010.2474](https://doi.org/10.1166/jnn.2010.2474)

- Mitochondria-targeted liposomes improve the apoptotic and cytotoxic action of sclareol, N. R. Patel, S. Hatziantoniou, A. Georgopoulos, C. Demetzos, V. Torchillin, V. Weissig, G.G.M. Souza *Journal of Liposome Res.*, 2010, 20(3), 244-9, [doi: 10.3109/08982100903347931](https://doi.org/10.3109/08982100903347931)
- New alternatives to cosmetics preservation, S. Papageorgiou, A. Varvaressou, E. Tsihrivas, C. Demetzos, *J. Cosmetic Science*, 61, 1-7, 2010, [EID: 2-s2.0-77953298691](https://doi.org/10.3109/08982100903347931)
- Methods of simultaneous analysis of liposome components using HPTLC/FID, S. Hatziantoniou, C. Demetzos, *Methods Mol Biol.*, 606, 363-8, 2010, [EID: 2-s2.0-77649195968](https://doi.org/10.3109/08982100903347931)
- Effect of amyloid beta peptides A β 1-28 and A β 25-40 on model lipid membranes, M. Ionov, B. Klajnert, K. Gardikis, S. Hatziantoniou, B. Palecz, B. Salakhutdinov, J. Cladera, M. Zamaraeva, C. Demetzos, M. Bryszewska, *J. Thermal Analysis and Calorimetry*, 99, (3) 741-747, 2010, [doi: 10.1007/s10973-009-0405-9](https://doi.org/10.1007/s10973-009-0405-9)
- The effect of aminoglycoside antibiotics on the thermodynamic properties of liposomal vesicles, YiMei Jia, H. Joly, D.M.Leek, C. Demetzos, A. Omri, *Journal of Liposomes Research*, 20 (1), 84-96, 2010, [doi: 10.3109/08982100903103896](https://doi.org/10.3109/08982100903103896)

2009

- Line optical tweezers: a tool to induce transformation in stained liposomes and to estimate shear modulus, E. Spyratou, E. Mourelatou, M. Makropoulou, A.A. Serafinides, A. Georgopoulos, C. Demetzos, *Colloid and Surfaces A : Physicochemical and Engineering Aspects*, 349, (1-3), 35-42, 2009, [doi: 10.1016/j.colsurfa.2009.07.049](https://doi.org/10.1016/j.colsurfa.2009.07.049)
- Atomic force microscopy (afm): a tool to study the structure, dynamics and stability of liposomal drug delivery systems, E. Spyratoy, E. Mourelatou, M. Makropoulou, C. Demetzos *Experts Opinion on Drug Delivery Systems*, 6, (3), 305-317, 2009, <https://doi.org/10.1517/17425240902828312>
- Solid lipid nanoparticles and nanoemulsions containing ceramides: preparation and physicochemical characterization, G. Deli, S. Hatziantoniou, Y. Nikas, C. Demetzos, *Journal of Liposome Res.*, 19, (3), 180-188, 2009, <https://doi.org/10.1080/08982100802702046>.
- Self-preserving cosmetics, A. Varavaressou, S. Papageorgiou, E. Tsirivas, E. Protopapa, H. Kintziou, V. Kefala, C. Demetzos, *International Journal of Cosmetics Sciences*, 31(3), 163-75, 2009, <https://doi.org/10.1111/j.1468-2494.2009.00492.x>

2008

- Nanoliposomes and Food Nanotechnology, R. Mozafari, C. Johnson, S. Hatziantoniou, C. Demetzos, *Journal of Liposome Res.*, 18(4), 309-27, 2008, <https://doi.org/10.1080/08982100802465941>
- Differential scanning calorimetry (DSC): A tool to study the thermal behavior of lipid bilayers and the liposomal stability, C. Demetzos, *J. Liposome Res.*, 18, 159-173, 2008, <https://doi.org/10.1080/08982100802310261>
- Transcription analysis approaches for the isolation of trichome-specific genes from the medicinal plant *Cistus creticus* subsp. *creticus*, Falara, V. Fotopoulos, T. Margaritis, T. Anastasaki, I. Petraki, A. Bosabalidis, D. Kafetzopoulos, C. Demetzos, E. Pichersky, A. Kanellis, *Plant Mol. Biol.*, 68, 633-651, 2008, V., <https://doi.org/10.1007/s11103-008-9399-0>
- Dendrimers as biopharmaceuticals: synthesis and properties. B. Villalonga-Barber, M. Micha-Skretta, B.R. Steele, A. Georgopoulos, C. Demetzos, *Current Topics in Medicinal Chemistry*, 8, 1294-1309, 2008, <https://doi.org/10.2174/156802608785849012>

2007

- Scanning Electron Microscopy study on nanoemulsions and solid lipid nanoparticles containing high amounts of ceramides, *Micron*, 38, 819-823, 2007, S. Hatziantoniou, G. Deli, Y. Nikas, C. Demetzos, G.Th. Papaioannou, <https://doi.org/10.1016/j.micron.2007.06.010>
- Photostability of retinoids: the influence of the container, *Journal of Clinical Pharmacology and Pharmacokinetics. International edition*, 21, 49-53, 2007, S. Papageorgiou, A. Varvaresou, S. Hatziantoniou, E. Tsirivas, C. Demetzos, G. Papaioannou EID: 2-s2.0-34248210135
- Molecular interactions between dimethoxycurcumin and PAMAM dendrimer carriers, *Int J Pharm*, 339 (1-2), 231-236, 2007, E. Markatou, V. Gionis, G.D. Chryssikos, S. Hatziantoniou, A. Georgopoulos, C. Demetzos, <https://doi.org/10.1016/j.ijpharm.2007.02.037>
- Visualisation of liposomes prepared from skin and stratum corneum lipids by Transmission Electron Microscopy, *Micron* , 38 (8), 777-781, 2007, S. Hatziantoniou , I.P. Nezis , L.H. Margaritis, C. Demetzos, <https://doi.org/10.1016/j.micron.2007.06.005>
- Sclareol induces apoptosis in human HCT116 colon cancer cells in vitro and suppression of HCT116 tumor growth in immunodeficient mice, K. Dimas, S. Hatziantoniou, S. Tseleni, H. Khan, A. Georgopoulos, K. Alevizopoulos, J. H. Wyche, P. Pantazis, C. Demetzos, *Apoptosis*, 12 (4), 685-694, 2007, <https://doi.org/10.1007/s10495-006-0026-8>
- Effect of the nature of the 3b-substitution in manoyl oxides on the thermotropic behavior of DPPC lipid bilayers and on DPPC liposomes, C. Matsingou, C. Demetzos, *Journal of Liposome Res.* 17 (2), 89-105, 2007, <https://doi.org/10.1080/08982100701375076>

- Calorimetric study on the induction of interdigitated phase in hydrated DPPC lipid bilayers by bioactive labdanes and correlation to their liposome stability. The role of chemical structure. C. Matsingou, C. Demetzos, *Chemistry and Physics of Lipids (CPL)*, 2007, 145, 45-62, <https://doi.org/10.1016/j.chemphyslip.2006.10.004>
- The perturbing effect of cholesterol on the interaction between labdanes and DPPC bilayers, C. Matsingou, C. Demetzos, *Thermochimica Acta*, 2007, 452, 116-123, <https://doi.org/10.1016/j.tca.2006.10.015>
- Liposomes modify the subcellular distribution of sclareol uptake by HCT-116 cancer cell lines. A. Paradissis, S. Hatziantoniou, A. Georgopoulos, A.M. Psara, K. Dimas, C. Demetzos, *Biomedicine and Pharmacotherapy* 61 (2-3), 120-4, 2007, <https://doi.org/10.1016/j.biopha.2006.10.006>

2006

- Qualitative and quantitative one step analysis of lipids and encapsulated bioactive molecules in liposome preparation by HPTLC/FID (IATROSCAN), S. Hatziantoniou, C. Demetzos, Journal of Liposome Research, 2006, 16, 321-330, <https://doi.org/10.1080/08982100600992278>
- The role of the anticancer drug vinorelbine in lipid bilayers using Differential Scanning Calorimetry and Molecular Modeling, C. Koukoulitsa, I. Kyrikou, C. Demetzos, T. Mavromoustakos, Chemistry and Physics of Lipids (CPL), 2006, 144, 85-95, <https://doi.org/10.1016/j.chemphyslip.2006.07.002>
- Phase transition of lipids and liposomes, UserCom, Mettler-Toledo, S. Hatziantoniou, C. Demetzos, M. Wagner, 2005, 1, 16-19
- A DSC and RAMAN spectroscopy study on the effect of PAMAM dendrimer on DPPC model lipid membranes. K. Gardikis, S. Hatziantoniou, K. Viras , M. Wagner, C. Demetzos, Int. J Pharm, 2006, 318, 118-123, doi: [10.1016/j.ijpharm.2006.03.023](https://doi.org/10.1016/j.ijpharm.2006.03.023)
- Design and development of liposomes incorporating a bioactive labdane – type diterpene. In vitro inhibiting and cytotoxic activity against human cancer cell lines, C. Matsingou, K. Dimas, C. Demetzos, Biomedicine and Pharmacotherapy, 2006, 60, 191-199, <https://doi.org/10.1016/j.biopha.2006.03.007>
- Effect of a bioactive curcumin derivative on dppc membrane: a dsc and raman spectroscopy study, K. Gardikis, S. Hatzianatoniou, K. Viras, C. Demetzos, Thermochemica Acta , 2006, 447, 1-4, <https://doi.org/10.1016/j.tca.2006.03.007>
- Dendrimers as drug carriers. a new approach to increase the potential of bioactive natural products, C. Demetzos, Natural Product Communications (NPC), 2006, 7, 593-600, EID: [2-s2.0-84892677764](https://doi.org/10.1016/j.npc.2006.03.007)
- Labd-14-ene-8,13-diol (sclareol) induces cell cycle arrest and apoptosis in human breast cancer cells enhances the activity of anticancer drugs, K. Dimas, M. Papadaki, C. Tsimplouli, S. Hatziantoniou, K. Alevizopoulos, P. Pantazis, C.

Demetzos, *Biomedicine and Pharmacotherapy*, 2006, 60, 127-133, <https://doi.org/10.1016/j.biopha.2006.01.003>

- Preparation and characterization of lyophilized liposomes with incorporated quercetin, Alexopoulou, A. Georgopoulos, K. A. Kagkadis, C. Demetzos, *Journal of Liposome Research*, 2006, 16, 17-25, <https://doi.org/10.1080/08982100500528594>
- Antitumor activity of doxorubicin encapsulated in hexadecylphosphocholine (HePC) liposomes against human xenografts on scid mice, A. Papagiannaros, S. Hatziantoniou, I.E. Lelong-Rebel, G. Papaioannou, K. Dimas, C. Demetzos, *In vivo*, 2006, 20, 129-136, [EID: 2-s2.0-30844473097](https://doi.org/10.1080/08982100500528594)
- Cytotoxic and antitumor activity of liposome – incorporated sclareol against cancer cell lines and human colon cancer xenografts, S. Hatziantoniou, K. Dimas, A. Georgopoulos, N. Sotiriadou, C. Demetzos, *Pharmacological Res.* 2006, 53, 80-87, <https://doi.org/10.1016/j.phrs.2005.09.008>
- A liposomal formulation of doxorubicin, composed of hexadecylphosphocholine (HePC): Physicochemical characterization and cytotoxic activity against human cancer cell line, A. Papagiannaros, S. Hatziantoniou, K. Dimas, G. Papaioannou, C. Demetzos, *Biomedicine and Pharmacotherapy* 2006, 60, 36-42, <https://doi.org/10.1016/j.biopha.2005.09.001>
- Labdane-type diterpenes: Thermal effects on phospholipid bilayers, incorporation into liposomes and biological activity, C. Matsingou, S. Hatziantoniou, A. Georgopoulos, K. Dimas, A. Terzis, C. Demetzos, *Chemistry of Physics and Lipids (CPL)* 2006, 138, 1-11, <https://doi.org/10.1016/j.chemphyslip.2005.07.006>
- Synthesis, liposomal formulation and thermal effects on phospholipid bilayers of leuprolide, V. Saroglou, S. Hatziantoniou, M. Smyrniotakis, I. Kyrikou, T. Mavromoustakos, A. Zompra, V. Magafa, P. Cordopatis, C. Demetzos, *J. Peptide Science* 12: 43-50, 2006, <https://doi.org/10.1002/psc.681>

2005

- Antileishmanial and trypanocidal activities of new miltefosine liposomal formulations, A. Papagiannaros, C. Bories, C. Demetzos, P.M. Loiseau, *Biomedicine and Pharmacotherapy* 2005, 59, 545-550, <https://doi.org/10.1016/j.biopha.2005.06.011>
- Doxorubicin-PAMAM dendrimer complex attached to liposome and cytotoxic studies against human cancer cell lines, A. Papagiannaros, K. Dimas, G. Papaioannou, C. Demetzos, *Int J Pharm* 2005, 302, 29-38, <https://doi.org/10.1016/j.ijpharm.2005.05.039>
- Lipid analysis of greek broad bean oil: preparation of liposomes and physicochemical characterization, A. Paradissis, S. Hatziantoniou, A. Georgopoulos, C. Demetzos, *European Journal of Lipid Science and Technology* 107, 2005, 799-804, <https://doi.org/10.1002/ejlt.200501148>
- Development of simple thiol-reactive liposome formulation, one step analysis and physicochemical characterization, E. Kaurma, S. Hatziantoniou, A. Georgopoulos, A. Kolokouris, C. Demetzos, *Journal of Pharmacy and Pharmacology* 2005, 57 (4), 527-532, <https://doi.org/10.1211/0022357055830>
- Sesquiterpene lactones from *Centaurea spinosa* and their antibacterial and cytotoxic studies, V. Saroglou, A. Karioti, C. Demetzos, K. Dimas, H. Skaltsa, *J. Natural Products* 68: 1404-1407, 2005, <https://doi.org/10.1021/np058042u>
- Induction of apoptosis in human colon cancer HCT116 cells treated with an extract of the plant product Chios mastic gum, K. Balan, C. Demetzos, J. Prince, K. Dimas, M. Cladaras, Z. Han, J. Wyche, P. Pantazis, *In Vivo*, 2005, 19(1), 93-102, [EID: 2-s2.0-16244417191](https://doi.org/10.1007/s12076-005-0119-1)
- The effect of solution conductivity on the volatile constituents of *Origanum dictamnus* L. in nutrient film culture, C. Ekonomakis, A. Karioti, H. Skaltsa, D.

Perdetzoglou, C. Demetzos, Journal of Agricultural food Chemistry, 53, 1656-1660, 2005, <https://doi.org/10.1021/jf040365t>

- A comparative study of the effects of cholesterol and sclareol, a bioactive labdane type diterpene, on phospholipid bilayers I. Kyrikou, A. Georgopoulos, S. Hatziantoniou, T. Manromoustakos, C. Demetzos, Chemistry and Physics of Lipids, 133 (2), 125-34, 2005, <https://doi.org/10.1016/j.chemphyslip.2004.09.021>

2004

- Correction of the structure of a new sesquiterpene from *Cistus creticus*. K. Hatzellis, G. Pagona, A. Spyros, C. Demetzos, H. Katerinopoulos, J. Nat. Products 67 (12): 1996-2001, 2004, <https://doi.org/10.1021/np0498556>
- Encapsulation of naturally occurring flavonoids into liposomes. Studies of their physicochemical properties and their biological activity against human cancer cell lines, M. Goniotaki, S. Hatziantoniou, K. Dimas, M. Wagner, C. Demetzos, Journal of Pharmacy and Pharmacology 56:1217-1224, 2004, <https://doi.org/10.1211/0022357044382>
- Improvement of encapsulation efficiency of diclofenac sodium into uncoated and chitosan coated liposomes, H. Maswadeh, A. Abdulhalim, C. Demetzos, Indian Journal of Pharmaceutical Sciences 66 (5): 607-612 (2004), [EID: 2-s2.0-70350112345](https://doi.org/10.1007/s12247-004-70350112345)
- Liposomal formulations from phospholipids of greek almond oil. Properties and biological activity, F. Malisiova, S. HatzianoniouA, D. Klestas, K. Dimas, C. Demetzos, Z. Naturforschung, Bioscience, 59: 330-334 (2004), [EID: 2-s2.0-3042847654](https://doi.org/10.1007/s12247-004-3042847654)
- In vitro percutaneous absorption of pine bark extract (Pycnogenol) in human skin, V. Sarikaki, M. Rallis, H. Tanojo, I. Panteri, I. Dotsikas, G. Loukas, C. Demetzos, J. of Toxicology-Cutaneous and Ocular Toxicology, 23:149-158 (2004), <https://doi.org/10.1081/CUS-200035353>
- The modulation of thermal and dynamic properties of vinblastine by cholesterol in membrane bilayers, I. Kyrikou, I. Daliani, T. Mavromoustakos, H. MaswadehASWADEH, C. Demetzos, S. Hatziantoniou, S. Giatrallis, G.

Nounesis, *Biochemical Biophysica Acta BBA-Biomembranes*, 1661, 1-8, 2004, <https://doi.org/10.1016/j.bbamem.2003.11.021>

- Rapid alterations of serum fatty acids with the intravenous administration of an arachidonate solution, S. Hatziantoniou, E. Giamarellos-Bourboulis, S. Skiathitis, C. Demetzos, I. Donta, G. Papapioannou, A. Dionisiou-Asteriou, P. Karagiannakos, H. Giamarello, *Prostaglandis Leukotriens and Essential Fatty Acids*, 70: 465-468 (2004), <https://doi.org/10.1016/j.plefa.2003.09.002>

2003 and Past

- Effect of the nitrogen concentration of the nutrient solution on the volatile constituents of the leaves of *Salvia fruticosa* Mill. in solution culture, *Journal of Agricultural food Chemistry*, 51: 6505-6508 (2003), A. Karioti, C. Demetzos, D. Perdetzoglou, C. Ekonomakis, A. Salem
- Essential oil analysis and antimicrobial activity of eight *Stachys* species from Greece, *Phytochemistry*, 2003, 64 (3), 743-52, H.D. Skaltsa, C. Demetzos, D. Lazari, P. Sokovic
- Lipid peroxidation by *Pseudomonas aeruginosa* in the pathogenesis of nosocomial sepsis, *J. Postgraduate Medicine*, 49: 11-16 (2003), E. Giamarellos, S. Skiathitis, A. Dionisiou-Astariou, S. Hatziantoniou, C. Demetzos, I. Dontas, G. Papaioannou, G. Karatzas, H. Giamarellou 19
- Effects of *Cupressus semprevirens* cone extract on lipid parameters in wistar rats, *In Vivo* 17: 101-104 (2003), S. Karkabounas, D.N.Kiortis, J. Zelovitis, P. Skafida, C. Demetzos, M. Malamas, M. Elisaf, A. Evangelou
- A molecular basis explanation of the dynamic and thermal effects of vinblastine sulfate upon dipalmytoylphosphadylcholine bilayer membrane *Biochemical Biophysica Acta (BBA)*, 2002 , 1567, 49-55, H. Maswadeh, C. Demetzos, I. Daliani, T. Mavromoustakos, A. Tsortsos, G. Nounesis
- Effect of phosphorus concentration of the nutrient solution on the volatile constituents of leaves and bracts of *Origanum dictamnus*, *Journal of Agricultural food Chemistry*, 2002, 50, 6276-6280, C. Ekonomakis, H. Skaltsa, C. Demetzos, M. Sokovic, C.A. Thanos

- Rapid alterations of serum oxidant and antioxidant status with the intravenous administration of N-6-polyunsaturated fatty acids Prostaglandins Leukot. Essent. Fatty Acids 2002, 67 (1), 57-62. N. Giamarellos, S. Skiathitis, A. Dionisiou-Asteriou, I. Donta, S. Hatziantoniou, C. Demetzos, G. TH. Papaioannou, G. Karatzas, H. Giamarellou
- Bioactive sesquiterpene lactones from *Centaurea* species and their cytotoxic/cytostatic activity against human cell lines in vitro, *Planta Med.* 2002, 68, 647-649, E. Koukoulitsa, H. Skaltsa, A. Karioti, C. Demetzos, K. Dimas
- The effects of vinblastine sulfate on Dipalmytoylphosphatidylcholine single and multiple bilayers membranes, *Bioactive molecules in Drug Design Medical Aspects*, Vol II, IOS Press, 2002, p.125-130, H. Maswadeh, C. Demetzos, I. Daliani, T. Mavromoustakos, A. Tsortsos, G. Nounessis
- Stealth liposomal Vinca alkaloids (Vinorelbine and Vinblastine) and in vitro studies on release by buffer and rat plasma, *Bioactive molecules in Drug Design Medical Aspects*, Vol II, IOS Press, 2002, p.131-141, C. Demetzos
- A comparative study of the essential oils of *Cistus salvifolius* in several populations of Crete (Greece) *Biochemical Systematic and Ecology* 2002, 30, 651-665. C. Demetzos, D. Angelopoulou, D. Perdetzoglou
- A Chemometric interpopulation study of the essential oils of *Cistus creticus* L. growing in Crete (Greece) *Z. Naturforsch. C* 2002, 57c, 89-94, C. Demetzos, T. Anastasaki, D. Perdetzoglou
- In vitro Cytotoxic/Cytostatic activity of anionic liposomes containing vinblastine against leukemic human cell lines, *Journal of Pharmacy and Pharmacology* 2002,

54, 189-196, H. 18 Maswadeh, C. Demetzos, K. Dimas, Y.L.Loukas, A. Georgopoulos, T. Mavromoustakos, G.Th. Papaioannou

- Lipid analysis of Greek walnut oil IPID (*Juglans regia* L). *Z. Naturforsch. C* 2002, 57c, 51-56, G. Tsamouris, S. Hatziantoniou, C. Demetzos
- Chemical and antibacterial activity of *Acinos suaveolens* (Sibth. and Sm.) G. Don Fil. From Greece, *Journal of Ess. Oil Res.* 2002, 14, 139-140, M. Couladis, O. Tzakou, C. Demetzos, D. Perdetzoglou
- Chemical analysis and antimicrobial activity of *Hallimium voldi*, *Z. Naturforsch. C* 2001, 56c, 979-982, C. Demetzos, D. Perdetzoglou, K. Tan
- Diurnal and seasonal variation of the essential oil labdanes and clerodanes from *Cistus monspeliensis* L. leaves, *Biochemical Systematic and Ecology* 2002, 30, 189-203, D. Angelopoulou, C. Demetzos, D. Perdetzoglou
- A simple and rapid method for differentiation C-13 manoyl oxide epimers in biologically important samples using GC-MS analysis supports with NMR spectroscopy and computational chemistry results, *Bioorganic Medicinal Chemistry Letters (BMCL)*, 2002, 12, 3605-3609, C. Demetzos, A. Kolokouris, T. Anastasaki
- “Labdane type diterpenes: Chemistry and Biological Activity”, Series of Books ‘Studies in Natural Product Chemistry’ Vol.25, 2001 ELSEVIER Lt., C. Demetzos and K. Dimas

- Composition and antimicrobial studies of the oils of *Origanum calganum* Juss. and *O. Scabrum* Boiss. et Held. from Greece, *Journal of Ess. Oil Res.* 2001 13, 460-462, C. Demetzos, D. Perdetzoglou, K. Tan
- An interpopulation study of the essential oils of *Crithum maritimum* L. growing in Amorgos (Greece). *Journal of Ess. Oil Res.* 2001, 13, 303-308, E. Katsouri, C. Demetzos, D. Perdetzoglou, A. Loukis
- Accumulation of vinblastine into transfersomes and liposomes in response to a transmembrane ammonium sulfate gradient and their cytotoxic/cytostatic activity in vitro *Anticancer Res.* 2001, 21: 2577-2584, H. Maswadeh, C. Demetzos, K. Dimas, S. Hatziantoniou, A. Georgopoulos, M. Rallis, P. Dallas.
- Cytotoxic and antiinflammatory activity of labdane and cis-clerodane type diterpenes, *Planta Med.* 2001, 67, 614-618, C. Demetzos, K. Dimas, S. Hatziantoniou, T. Anastasaki, D. Angelopoulou
- Structure elucidation, conformational analysis and thermal effects on membrane bilayers of and antimicrobial myricetin ether derivative, *Journal of Heterocyclic Chemistry* 2001, vol. 38 703-710, C. Demetzos, D. Angelopoulou, A. Kolokouris, I. Daliani, T. Mavromoustakos
- Structure elucidation and conformational properties of a novel bioactive clerodane diterpenes using a combination of high field NMR spectroscopy, computational analysis and X-Ray diffraction, *Bioorganic Medicinal Chemistry Letters* 2001, 11(6): 837-840, A. Kolokouris, T. Mavromoustakos, C. Demetzos, A. Terzis, S. Grodolik

- Ether phospholipid-azt conjugates possessing anti-HIV and antitumor cell activity. Synthesis, conformational analysis and study of their thermal effects on membrane bilayers, *Journal of Medicinal Chemistry*, 2001, 24:44(11) 1702-9, T. Mavromoustakos, T. Kalogeropoulou, M. Koufaki, A. Kolokouris, I. Daliani, C. Demetzos, Z. Meng, A. Makrigiannis, J. Belzarini, E. Clerq
- Labdane type diterpenes down-regulate the expression of c-myc protein but not of bcl-2 in human leukemia T-cells undergoing apoptosis *Leukemia Res.* 2001, 25(6): 21-25, K. Dimas, C. Demetzos, V. Vaos, P. Ioannidis, T. Trangas
- Encapsulation of vinblastine into new liposome formulation prepared from *Triticum RITICUM* (Wheat Germ) lipids and its activity against human leukemic cell lines *Anticancer Res.* 2001, 20: 4385-4390, H. Maswadeh, S. Hatziantoniou, C. Demetzos, K. Dimas, A. Georgopoulos, M. Rallis
- An interpopulation study of the essential oils of *Cistus parviflorus* L. growing in Crete (Greece) *Biochemical Systematic and Ecology* 2001, 29 (4), 405-415. D. Angelopoulou, C. Demetzos, D. Perdetzoglou
- Essential oils and hexane extracts from leaves and fruits of *Cistus monspeliensis*. Cytotoxic activity of ent-13-epi-manoyl oxide and its isomers. *Planta Med.* 2001, 67:168-171, D. Angelopoulou, C. Demetzos, C. Dimas, D. Perdetzoglou, A. Loukis
- Biological activity of Myricetin and its derivatives against human leukemic cell lines in vitro *Pharmacological Res.* 42 (5) 475-8, 2000, K. Dimas, C. Demetzos, D. Angelopoulou, A. Kolokouris, T. Mavromoustakos

- Chemical analysis and antimicrobial studies on three species of *Ferulago* from Greece, *Planta Med.* 2000, 66, 560-563, C. Demetzos, D. Perdetzoglou, M. Gazouli, K. Tan, C. Ecomonakis
- Pharmacological activity of natural lipids on skin barrier disruption, *Pharmacological Res.* 2000, 42(1), 55-59, S. Hatziantoniou, M. Rallis, C. Demetzos, G. Papaioannou
- Cytotoxic activity and antiproliferative effects of a new semisynthetic derivative of ent-3 β -hydroxy-13-epi-manoyl oxid on human leukemic cell lines, *Anticancer Res.* 1999, 19, 4065-4072. K. Dimas, C. Demetzos, S. Mitaku, B. Vaos, M. Marsellos, T. Tzabararas, D. Kokkinopoulos
- Cytotoxic activity of two kaempferol glycosides against human leukemic cell lines *Pharmacological Res.* 1999, 41 (1), 85-88, K. Dimas, C. Demetzos, S. Mitaku, M. Marsellos, T. Tzavararas, D. Kokkinopoulos
- Analysis of labdane-type diterpenes from *Cistus* L., (i.e. subsp. *creticus*, subsp. *eriocephalus*) by GC and GC-MS. *Planta Med.* 1999, 65, 735-739, T. Anastasaki, C. Demetzos, D. Perdetzoglou, M. Gazouli, A. Loukis, A. Harvala
- Cytotoxic and antiproliferative effects of heptaacetyltilirosid in human leukemic cell lines *Leukemia Res.* 1999, 23, 1021-1033, K. Dimas, D. Kokkinopoulos, C. Demetzos, B. Vaos, M. Marsellos
- Chemotaxonomic survey of wild and cultivated *Cistus* L., species., *Plant Biosystems* 1999, 133 (3) 251-254, C. Demetzos, D. Perdetzoglou

- Volatile compounds of leaves and bracts of wild and cultivated *Origanum dictamnus* L.. *Planta Med.* 1999, 65, 189-191, C. Ekonomakis, C. Demetzos, T. Anastassaki, V. Papapzoglou, M. Gazouli, A. Loukis, C. Thanos, C. Harvala
- Chemical compositions and antimicrobial activity of the resin LADANO of its Ess. Oil and the isolated compounds *Planta Med.* 1999 , 65, 76-78, C. Demetzos, B. Stahl, T. Anastassaki, M. Gazouli, L. Tzouvelekis, M. Rallis 16
- The effect of sclareol in the growth of cell cycle progression, *Leukem. Res.* 1999 23, 217-234, K. Dimas, D. Kokkinopoulos, C. Demetzos, T. Tzavaras, B. Vaos, M. Malalmas, M. Marsellos
- Composition of the essential oil of *Camomilla recutita*(L.) Rausch., grown in Greece, *J. Ess. Oil Res.* 1998 10, 635-636., V.Papazoglou, T. Anastassaki, C. Demetzos, A. Loukis
- Antiviral in vitro activity of *Hypericum perforatum* L. extract on the human cytomegalovirus (HCMV). *Phytoterapy Res.* 1998, 12, 507-511, Axarlis, C. Demetzos, S. Mitaku, A.L. Skaltsounis, A. Mentis, M.Malamas, M. Marselos
- Cytotoxic activity of labdane type diterpenes against human leukemic cell lines in vitro, *Planta Med.* 1998, 64 (3) 208-211, K. Dimas, * C. Demetzos, M. Marsellos, R. Sotiriadou, M. Malamas, D. Kokkinopoulos
- Compositons and antimicrobial activity of the essential oil of *Cistus creticus* subsp. *eriocephalus* *Planta Med.* 1997, 63 477-479, C. Demetzos, H.Katerinopoulos, A. Kouvarakis, N. Stratigakis, A. Loukis, C. Ekonomakis, V. Spiliotis, J. Tjaknis

- Biotransformation of the flavonoid tiliroside to 7-Methylether tiliroside: bioactivity of this metabolite and its acetylated derivative Cellular and Molecular Life Science (CMLS) (formerly experientia) 1997, 53, 587-592, C. Demetzos, P. Magiatis, M.A. Typas, C. Dimas, R. Sotiriadou, S. Perez, D. Kokkinopoulos
- Unduloside, a new irioid glucoside from *Verbascum undulatum*, J. Nat. Prod. 1996, 59, 673, A. L. Skaltsounis, E. Tsitsa-Tzardi, C. Demetzos, C. Harvala
- Composition and antimicrobial activity of the Ess. Oil of *Cistus creticus* L., J. Ess. Oil Res., 1995, 7, p.407., C. Demetzos, A. Loukis, V. Spiliotis, N. Zoakis, N. Stratigakis, H. Katerinopoulos
- Natural metabolites of manoyl oxide and other cytotoxic diterpenes from the resin LADANO of *Cistus creticus*, *Planta Med.* 1994, 60, 590., C. Demetzos, S. Mitaku, M. Couladis, C. Harvala, D. Kokkinopoulos
- Diterpnes esters of malonic acid from the resin LADANO of *Cistus creticus*, *Phytochemistry* 1994, 35(4) 979., C. Demetzos, S.Mitaku, A.L.Skaltsounis, M.Couladis, C.Harvala, F. Libot
- Synthesis of quercetin-3-o-b-d-glucopyranosyl (1-2) b-d-xylopyranoside via orthoester methodology, J. Nat. Prod. 1994, 57 (9)1234, C. Demetzos, A.L. Skaltsounis, B. Razanamahefa, F. Tillequin
- A new drimate sesquiterpene, manoyl oxide isomer and other volatile compounds from the resin LADANO from *Cistus incanus* subsp. *creticus* (L) Heywood., J. Ess. Oil Res. 1994, 6, 37, C. Demetzos, S. Mitaku, A. Loukis, C. Harvala, A. Gally

- Cytotoxic and antibacterial activity of labdane type diterpenes from the leaves of *Cistus inca*
- Bioactive compounds from the buds of *Platanus orientalis* L. and isolation of a new kaempferol glucoside, *Planta Med.* 1993, 59, 517, D. Mitrokotsa, S. Mitaku, C. Demetzos, C. Harvala, A. Mentis, S. Perez, D. Kokkinopoulos
- Structures and synthesis of quercetin glucoside from *Kalanchoe prolifera* (Raym-Hamet), *Heterocycles* 1994, 38(2) p.357., B. Razanamahera, C. Demetzos, A.L. Skaltsounis, M. Antriantisiferana, F. Tillequin .
- Synthesis and biological activity of 3-deamino-haloanthracyclines, *Anti Cancer Drug Design* 1994, 9, 129., C. Demetzos, A.L. Skaltsounis, S. Michel, F. Tillequin, M. Koch, M. Anset, A. Pierre, G.H. Atassi
- Phase-transfer catalysed synthesis of flavonoid glycosites, *Carbohydrate Res.* 1990, 207, p.131., C. Demetzos, A.L. Skaltsounis, F. Tillquin, M. Koch
- A new labdane-type diterpene and other compounds from the leaves of *Cistus creticus* subsp. *Creticus* (L.) HEYWOOD., *J. Nat. Prod.* 1990, 53, p.1365, C. Demetzos, C. Harvala, S.M. Philianos, A.L. Skaltsounis
- The Ess. Oil of *Cistus parviflorus* and a comparative study of its antimicrobial activity of *Cistus monspeliensis*, *Fitoterapia* 1990, p.439, C. Demetzos, J. Hinou, C. Harvala, V. Homatidou
- Heterosides polyphenoliques des feuilles de *Cistus creticus* L., *Ann. Pharm. Fr.* 1989, 4, p.314, C. Demetzos, S. Mitaku, F. Hotellier, C. Harvala

- Cytotoxic and antimicrobial principles from the of *Aristolochia longa*, Int. J. Grude Drug Res. 1989, 27, p.34, J. Hinou, C. Demetzos, C. Harvala, C. Roussakis
- Iridoides de *Scaevola Montana*, Ann. Pharm. Fr. 1989, 47, p. 249, A.L.Skaltsounis, S.Sbahi, C. Demetzos, J.Pusset
- Polyphenolic compounds of *Myrtus communis* L., Fitoterapia, 1989 Vol LX, 1, p. 94., J. Hinou, C. Demetzos, C. Harvala