

## **Activities accomplished:**

(I) Oral presentations: **22** (+37) = Total **59**

(II) Participation in Conferences and Large Scale RIs meetings: 53 (+26) = Total 79

(III) Scientific publications, in peer-reviewed journals: **29** (+10) = Total **39**

**(IV) Articles in newspapers, journals & newsletters**      5 (+20) =      **Total 25**

Publications in peer-reviewing scientific journals, by SEE-DRUG groups:

1. NMR-based insights into the conformational and interaction properties of Arkadia RING-H2 E3 Ub ligase. Chasapis CT, Kandias NG, Episkopou V, Bentrop D, Spyrouli as roteins. 2012 May;80(5):1484-9. GA. P

2. Hydrogen sulfide and nitric oxide are mutually dependent in the regulation of angiogenesis and endothelium-dependent vasorelaxation. Coletta C, Papapetropoulos A, Erdelyi K, Olah Pan G, Módis K, opoulos P, Asimakopoulou A, Gerö D, Sharina I, Martin E, Szabo C. Proc Natl Acad Sci U S A . 2012 Jun 5;109(23):9161-6.

3. Structural studies of human insulin cocrystallized with phenol or resorcinol via powder diffraction. Karavassili F, Giannopoulou AE, Kotsilitsi E, Knight L, Norrman M, Schluckebier G, Drube L, Fitch AN, Wright JP, Margiolaki I. Acta Crystallogr D Biol Crystallogr. 2012 Dec;68(Pt 12):1632-41

## Journals

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4. [\(1\)H, \(15\)N, \(13\)C assignment and secondary structure determination of two domains of La protein from D. discoideum.](#) Apostolidi M, Vourtsis DJ, **Chasapis CT**, Stathopoulos C, **Bentrop D**, **Spyroulias GA**

*Biomol NMR Assign*

**2012**

Dec 14.

5. [cGMP-dependent protein kinase contributes to hydrogen sulfide-stimulated vasorelaxation.](#) M. Bucci, **A. Papapetropoulos**, V. Vellecco, Z. Zhou, A. Zaid, P. Giannogonas, A. Cantalupo, S. Dhayade, K.P. Karalis, R. Wang, R. Feil, G. Cirino.

*PlosOne*

**2012**

;7(12):e53319.

6. [Selectivity of commonly used pharmacological inhibitors for cystathionine  \$\beta\$  synthase \(CBS\) and cystathionine  \$\gamma\$  lyase \(CSE\).](#) Asimakopoulou A, **Panopoulos P, Chasapis CT**, Coletta C, Zhou Z, Cirino G, Giannis A, Szabo C, **pyroulias GA**, **Papapetropoulos A** **S**

*Br J Pharmacol*

**2013**

;169(4):922-32.

7. Hydrogen sulfide-mediated stimulation of mitochondrial electron transport involves inhibition of the mitochondrial phosphodiesterase 2A, elevation of cAMP and activation of protein kinase A. K. Módis, P. Panopoulos, C. Coletta, **A. Papapetropoulos**, C. Szabo. *Biochem. Pharm*

**2013,**

86:1311-9,

8. [High-resolution powder X-ray data reveal the T\(6\) hexameric form of bovine insulin.](#) Mar giolaki I, Giannopoulou AE, Wright JP, Knight L, Norrman M, Schluckebier G, Fitch AN, Von Dreele RB. *Acta Crystallogr D Biol Crystallogr* **2013** ;69(Pt 6):978-90. doi: 10.1107/S0907444913003867. Epub 2013 May 11.

9. [Genomic variation in the MAP3K5 gene is associated with  \$\beta\$ -thalassemia disease](#)

[severity and hydroxyurea treatment efficacy.](#) Tafrali C, Paizi A, Borg J, Radmilovic M, Bartsakoulia M, Giannopoulou E, Giannakopoulou O, Stojiljkovic-Petrovic M, Zukic B, Poulas K, Stavrou EF, Lambropoulou P, Kourakli A, Felice AE, Papachatzopoulou A, Philipsen S, Pavlovic S, Georgitsi M, Patrinos GP. *Pharmacogenomic* 2013; 14(5):469-83.

10. [Insights into soluble guanylyl cyclase activation derived from improved heme-mimetics.](#) von Wantoch Rekowski M, Kumar V, Zhou Z, Moschner J, Marazioti A, Bantzi M, Spyroulias GA, van den Akker F, Giannis A,  
**Papapetropoulos A.**  
*J. Med. Chem*

2013,  
56, 8948-52,

11. [Hydrogen sulfide accounts for the peripheral vascular effects of S-zofenopril independently of ACE inhibition.](#) M. Bucci, V. Vellecco, A. Cantalupo, V. Brancaleone, Z. Zhou, S. Evangelista, V. Calderone,  
**Papapetropoulos**, G. Cirino.  
*Cardiovasc Res*

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102:138-47,

12. [NMR conformational properties of an Anthrax Lethal Factor domain studied by multiple amino acid-selective labeling.](#) Vourtsis DJ, Chasapis CT, Pairas G, Bentrop D, Spyro ulias GA.  
*Biochem Biophys Res Commun*

2014,  
450(1):335-40.

13. [Regulation of Mitochondrial Bioenergetic Function by Hydrogen Sulfide. Part II. Pathophysiological and Therapeutic Aspects.](#) Módis K, Bos EM, Calzia E, van Goor H, Coletta C, Papapetropoulos A, Hellmich MR, Radermacher P, Bouillaud F, Szabo C.  
*Br J pharmacol*

2014  
Apr;171(8):2123-46.

14. [NMR study of non-structural proteins-part II:  \$^1\text{H}\$ ,  \$^{13}\text{C}\$ ,  \$^{15}\text{N}\$  backbone and side-chain resonance assignment of macro domain from Venezuelan equine encephalitis virus](#)

(VEEV). Makryniitsa GI,  
Ntonti D, Marousi  
**s KD**,  
Tsika AC, Lichière J,  
**Papageorgiou N, Coutard B**  
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**Bentrop D**  
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**Spyroulias**  
GA.  
*Biomol NMR Assign*

## 2014

Oct 8. [Epub ahead of print]

15. [Backbone and side chain NMR assignment, along with the secondary structure prediction of RRM2 domain of La protein from a lower eukaryote exhibiting identical structural organization with its human homolog.](#) Argyriou AI, **Chasapis CT**, Apostolidi M, Konstantinidou P, Stathopoulos C,  
**Bentrop D**

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**Spyroulias**

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*Biomol NMR Assign*

## 2015

Apr;9(1):219-22.

16. [NMR study of non-structural proteins--part I: \(1\)H, \(13\)C, \(15\)N backbone and side-chain resonance assignment of macro domain from Mayaro virus \(MAYV\).](#) Melekis E, Tsika AC, Lichière J,  
**Chasapis CT, Margiolaki I, Papageorgiou N, Coutard B, Bentrop D,**  
**Spyroulias**  
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*Biomol NMR Assign*

## 2015

Apr;9(1):191-5.

17. [1 H, 13 C and 15 N backbone and side-chain resonance assignment of the LAM-RRM1 N-terminal module of La protein from Dictyostelium discoideum.](#)

**Chasapis CT**, Argyriou AI, Apostolidi M, Konstantinidou P,  
**Bentrop D**, Stathopoulos C,  
**Spyroulias**  
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*Biomol NMR Assign*

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### 2015

Feb 18. [Epub ahead of print]

18. [Evaluation of the distribution of Paclitaxel by immunohistochemistry and nuclear magnetic resonance spectroscopy after the application of a drug-eluting balloon in the porcine ureter.](#) Liourdi D, Kallidonis P, Kyriazis I, Tsamandas A, Karnabatidis D, Kitrou P, **Spyroulias**

GA, Kostopoulou ON,

**Marousis K,**

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### 2015

May;29(5):580-9.

19. [A Peptide Mimetic of 5-Acetylneuraminic Acid-Galactose Binds with High Avidity to Siglecs and NKG2D.](#) Eggink LL, **Spyroulias GA**, Jones NG, Hanson CV, Hoober JK. *P LoS One*

### 2015

Jun 25;10(6):e0130532. doi: 10.1371/journal.pone.0130532. eCollection 2015.

20. [NMR & Biochemical assays reveal unexpected RNA binding properties of the La motif of \*D. discoideum\* Lupus Antigen protein.](#) A. Argyriou, D. Vourtsis, M. Apostolidi, **C.T.**

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D. Drainas,

**D. Bentrop**

, C. Stathopoulos,

**G.A. Spyroulias**

### (2015)

*to be submitted*

21. [NMR insights on the conformational plasticity and ligase activity of intrinsically dynamical forms of ARKADIA E3 Ubiquitin Ligase.](#) M. Birkou, A. Loutsidou, C.T. Chasapis, D. Bentrop, M. Leli, T. Herrmann, V. Episkopou, **G.**

**A. Spyroulias.**

### (2015)

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22. [Role of cGMP in hydrogen sulfide signaling.](#) SI Bibli, G. Yang, Z. Zhou, R. Wang, **S.**

**Topouzis,**

**A. Papapetropoulos**

*NO Journal*

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23. [Extending the translational potential of targeting nitric oxide/cGMP-regulated pathways in the cardiovascular system](#) . **A. Papapetropoulos**, A. J. Hobbs, **S. Topouzis**. *Br. J. Pharmacol*

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## Journals

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24. [Direct proof of the in vivo pathogenic role of the AChR autoantibodies from myasthenia gravis patients.](#) Kordas G, **Lagoumintzis** G, Sideris S, **Poulas K**, Tzartos SJ. *PLoS One* . 2014 Sep 26;9(9):e108327.
25. [Scale up and safety parameters of antigen specific immunoabsorption of human anti-acetylcholine receptor antibodies.](#) **Lagoumintzis** G, Zisimopoulou P, Trakas N, Grapsa E, **Poulas K**, Tzartos SJ. *J Neuroimmunol.*
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Feb 15;267(1-2):1-6.
26. [Non-contact current transfer induces the formation and improves the X-ray diffraction quality of protein crystals.](#) Boltsis I, **Lagoumintzis G**, Chatzileontiadou DSM, Giastas P, Tzartos SJ, D. Leonidas D, **Poulas K.** *Journal of Crystal Growth and Design* , 2014, 14(9): 4347-4354.
27. [ATP-Sensitive Potassium Channel Activation Induces Angiogenesis In Vitro and In Vivo.](#) Umaru B, Pyriochou A, **Kotsikoris V**, **Papapetropoulos A**, **Topouzis S**. *J Pharmacol Exp Ther* .  
**2015**  
, Jul;354(1):79-87.
28. [Guanylyl cyclase activation reverses resistive breathing-induced lung injury and inflammation.](#) Glynnos C, Toumpanakis D, Loverdos K, Karavana V, Zhou Z, Magkou C, Dettoraki M, Perlikos F, Pavlidou A, **Kotsikoris V**, **Topouzis S**, Theocharis SE, Brouckaert P, Giannis A, **Papapetropoulos A**, Vassilakopoulos T. *Am J Respir Cell Mol Biol.*  
**2015**  
Jun;52(6):762-71.
29. [Mechanoresponses of human primary osteoblasts grown on carbon nanotubes.](#) Kroustalli A, **Kotsikoris** V, Karamitri A, **Topouzis S**, Deligianni D. *J Biomed Mater Res A*.  
**2015**  
Mar;103(3):1038-44.

30. [Mast cells mediate malignant pleural effusion formation.](#) Giannou AD, Marazioti A, Spella M, Kanellakis NI, Apostolopoulou H, Psallidas I, Prijovich ZM, Vreka M, Zazara DE, Lilis I, Papaleonidopoulos V, Kairi CA,

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*J Clin Invest.*

**2015**

Jun 1;125(6):2317-34.

31. [Geminin deletion increases the number of fetal hematopoietic stem cells by affecting the expression of key transcription factors.](#) Karamitros D, **Patmanidi AL**, Kotantaki P,

Potocnik AJ, Bähr-Ivacevic T, Benes V,

**Lygerou Z,**

Kioussis D,

**Taraviras S.**

*Development*

**2015**

Jan 1;142(1):70-81.

32. [“Human Insulin Polymorphism upon Ligand Binding and pH variation: The Case of 4-ethylresorcinol.”](#) S. Fili, A. Valmas, M. Norrman, G. Schluckebier, D. Beckers, T.

Degen, J. Wright, A. Fitch, F. Gozzo, A. E. Giannopoulou, F. Karavassili,

**I. Margiolaki.**

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33. [“Novel crystalline phase and first-order phase transitions of human insulin complexed with two distinct phenol derivatives”.](#) Valmas, A., Magioud, K., Fili, S., Norrman, M.,

Schluckebier, G., Beckers, D., Degen, T., Wright, J.P., Fitch, A. N., Gozzo, F., Giannopoulou, A.E., Karavassili, F.

**Margiolaki I.** *Acta Cryst. 2015,*

D71, 819-828.

34. [“The power of Powders”](#), Article on *ESRFnews magazine*, (vol. 69, page 18).

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**argiolaki, I.,**

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35. [Utilizing the virus-induced blocking of apoptosis in an easy baculovirus titration method.](#)

A. Niarchos,  
**G. Lagoumintzis**  
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*In press*  
, Scientific Reports, Nature Publishing Group,  
**2015**