CURRICULUM VITAE

Name **:** **Georgios A. SPYROULIAS**

Date of Birth **:** 16 October 1965, Thessaloniki
Marital Status **:** Married (1 child)
Nationality **:** Greek

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Academic Background :

- *September 1989* **B.Sc. In Chemistry**, Aristotle University of Thessaloniki, **Thessaloniki, Greece**.
- *February 1992* **M.Sc. In Chemistry**, ***(Supervisor Prof. Athanassios Coutsolelos)*** *« Bioinorganic Chemistry of Coordination Compounds »,* Department of Chemistry, University of Crete, **Greece**.
- *June 1995* **Ph.D. In Chemistry**, ***(Supervisor Prof. Athanassios Coutsolelos),*** Department of Chemistry, University of Crete, **Heraklion, Greece**.

Current Professional Status :

- *September 2014* **Professor** University of Patras, Department of Pharmacy, **Patras, GREECE.**
  Design/Simulation of bioactive molecules with pharmacological interest.
- *November 2015* **Head of the Pharmacy Department,** University of Patras (2015-2017 & 2017-2020)

Professional Appointments :

- *July-August 1987* **«EKO» Chemicals, Co.** Department of Chemical Processes, **Thessaloniki, GREECE.**
- *June 1995* **Short-term Post-Doctoral Research (in Prof. I. Bertini's lab,** Universita degli Studi di Firenze, **Firenze, ITALY)**
- *July 1995* **Short-term Post-Doctoral Research (in Prof. R. Poilblanc's lab,** Laboratoire de Chimie de Coordination, C.N.R.S, **Toulouse, FRANCE.)**
- *October 1995* **Post-Doctoral Fellow (in Dr. D. Mansuy's lab,** René Descartes, Paris V, Laboratoire De Chimie et Biochimie, C.N.R.S. URA 400, **Paris, FRANCE.)**
- *January 1997* **Post-Doctoral Fellow (in Prof. I. Bertini's lab,** Università degli Studi di Firenze, Laboratorio di Chimica Inorganica e Bioinorganica, **Firenze, ITALY)**
- *May 2000* **Post-Doctoral Fellow (in Prof P. Kordopatis' lab,** University of Patras, Department of Pharmacy, **Patras, GREECE).**
- *Nov 2001* **Post-Doctoral Researcher, 2001-2003,** Department of Pharmacy, U of Patras, **GREECE.**
- *May 2001* **Research Associate,** University of Patras, Department of Pharmacy, **Patras, GREECE.**
- *August 2003* **Assistant Professor** University of Patras, Department of Pharmacy, **Patras, GREECE.**
- *December 2009* **Associate Professor** University of Patras, Department of Pharmacy, **Patras, GREECE.**

Current Research Activities and Interests:

- **Design/Simulation and Engineering of Bioactive Molecules**, such as bioactive peptides and modified proteins.
- **Structural Bioinformatics,** such as homology modeling, docking and molecular dynamics, *in silico* design and development of combinatorial libraries of compounds and virtual screening process towards the quest of lead-molecules with biological activity towards protein/enzyme targets, etc.
- **Protein preparation for NMR structural studies**: polypeptide overexpression/purification and uniform or selective labeling (^{15}N, ^{13}C, ^{2}H, residue specific labeling, segmental labeling, etc.).
- **Structure-Activity Relationship by NMR** and **Solution Conformational Analysis & 3D Structure determination of Biomolecules,** such as metalloproteins/metalloenzymes (implicated in electron transfer, proteolysis, ubiquitination pathway and NO signaling, viral protein domains implicated in viral replication or suppression of human Innate Immune Response, RNA and nucleotide binding proteins, Protein-protein/RNA/small molecule interaction and complexes, (poly)peptides, etc**. (https://research.upatras.gr/idrymatikes-ypodomes/)**
- **Biophysical Characterization of protein and their complexes** through a number of techniques, such as: (a) UV-visible (**UV-vis**)& Circular Dichroism (**CD**) Spectroscopy for structure and thermal stability analysis, (b) Size Exclusion Chromatography coupled with Multiple Angle Laser Light Scattering (**SEC-MALLS**) to determine protein concentration, shape and oligomerization state, (c) Isothermal Titration Calorimetry (**ITC**) to determine the physicochemical properties and binding kinetics of the association of protein with other molecules**.**
- **NMR metabolomics**: analysis of biological fluids (urine, blood serum & plasma, tissues/cell extracts, etc.) for the identification of biomarkers, metabolic fingerprint and disorders.

Fellowships & Awards:

- **« EMY »** Fellowship for PhD research, Ministry of Education (U of Crete**, GREECE**; 11/1989-10/1994).
- **« ERASMUS »** Grant (Contract N° : ICP-92-G-2002/13. University Paul Sabatier, CNRS, **Toulouse, FRANCE** ; 11/1992-4/1993).
- **« DIGITAL CORPORATION AWARD »** for Achievements in PhD Research (U of Crete, **GREECE**; 1993).
- **« CLAUDE BERNARD Fondation »** Grant (U René Descartes, **Paris, FRANCE** ; 11/1996-12/1996).
- **« Platon » Bilateral Cooperation Scientifique Franco-Hellenique**, REF. PAI/GRC 9508. **1994-1995**, University of Crete, Department of Chemistry, GREECE & Laboratoire de Chimie de Coordination, C.N.R.S, Toulouse, FRANCE.

Participation in Research Programs During Post-Doctoral Research Activities:

1. **Human Capital & Mobility,** Université René Descartes, Paris V, Laboratoire De Chimie et Biochimie, C.N.R.S. URA 400, Paris, **FRANCE :**
   - Contract N° : ERBCHRXCT 9460492, *"Transition Metals In Supramolecular Catalysis"*, **1995-1996**.
2. **Training & Mobility of Researchers,** Università degli Studi di Firenze, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, **ITALY:**
   - Contract N° : CHRX-CT 940540, *"Structure –Function Relationships in Haemoproteins"*, **1997.**
   - Contract N° : FMGE-CT98-0107, *"Development of NMR Instrumentation and Software to Achieve Excitation and Detection of Large Bandwidths and Dipolar Couplings in High Resulotion Spectra at High-Field",* **2000.**

Approved Proposal for Access/Use of Large Scale Facilities/Infrastructures :

1. **FLORMARPARM Large Scale Facility** - Contract N° : ERBCHGECT 940060. **1995,** Universita degli Studi di Firenze, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, **ITALY.**
2. **NMRPARABIO Large Scale Facility** - Contract N° : ERBFMGECT 950033. **1997**, Universita degli Studi di Firenze, Laboratorio di Chimica Inorganica e Bioinorganica, Florence, **ITALY.**
3. **NMRPARABIO Large Scale Facility** - Contract N° : HPRI-CT-1999-00009. **2000-2003**, Center of Magnetic Resonance (CERM), Florence, **ITALY.**
4. **EU-NMR Large Scale Infrastructure** - Contract N° : RII3-026145. **2006-2010**, Center of Magnetic Resonance (CERM), Florence, **ITALY** & RALF-NMR Large-Scale Facility, Lyon, **FRANCE.**

Competitive Research Grants Awarded :

1. **Marie Curie Research Training Grant (European Union)** - Contract N° : ERBFMBICT 972477. *"NMR Spectroscopy to study the factors controlling the folding/unfolding process in Paramagnetic Metalloproteins"***, 1997-1999**, Department of Chemistry, University of Florence, **ITALY.** Grant Holder
2. **Marie Curie Research Grant (European Union)** - Contract N° : HPMF-CT-1999-00344. *"NMR Structural Studies of Chemically Modified c-Cytochromes as a probe of Protein Folding Pathways",* **2000-2001,** Department of Pharmacy, University of Patras, **GREECE**. Grant Holder
3. **"C. Carathéodory" Research Grant** – Program No 2790, *'Structure-Function Relationship of the blood pressure regulating factors through NMR conformational studies of molecular complexes of Angiotensin Converting Enzyme catalytic sites with vassoactive peptides'*, **2001-2003,** University of Patras, **GREECE**. Principal Investigator.
4. **EMBO Short-term Research Grant**, Center of Magnetic Resonance, Florence, **ITALY**. Principal Investigator.
   - Contract N° : ASTF 53-2003, *"NMR Structure Elucidation of Angiotensin-I Converting Enzyme (ACE) Catalytic Sites and Their Complexes With Angiotensin-I",* **2003.**
   - Contract N° : ASTF 99-2004, *"Mapping the Contact Interface of HIV gp120 V3 and CD4+ T-Cell CCR5 N-terminal Peptides through NMR Spectroscopy : Implications for HIV Inhibitors Design",* **2004.**
5. **IKYDA Bilateral Cooperation Greece-Germany**, *"Interaction between Calmodulin and a Calmodulin Binding Peptide of SK2 Potassium Channels by NMR",* **2003-2005,** University of Patras, **GREECE** & University of Freiburg, **GERMANY**. Principal Investigator.
6. **"PYTHAGORAS" Research Program** (Ministry of Education, GREECE) *"Structural Study of recombinant extracellular domains of Acetylocholine Receptor"* **2004-2005,** University of Patras. Co-Investigator.
7. **EQUAL/eΠΙΜΕΝΩ Program** (Ministry of Occupation, GREECE) *«Enhancement of the capabilities of individuals suffering from Neuromascular diseases through an e-learning program»* **2005-2007**, University of Patras, Co-Investigator.
8. **"PENED 2003" Research Program** (GSRT, Ministry of Development, GREECE) *'Study of Structure-Function Relationship of the growth factor Pleiotropin for the identification of protein fragments with anticancer activity'* **2005-2008**, University of Patras. Co-Investigator.
9. **Spanish Ministry of Education and Science Research Grant** - CTQ2005-00360/BQU, "*Caracterizacion Mediante Resonancia Magnetica Nuclear del Extremo C-terminal del Receptor Vaniloide Y de Proteinas Helice-Lazo-Helice Implicadas en el Crecimiento del Sistema Neuronal"*, **2006-2008**, University of Patras, **GREECE** & Universidad Miguel Hernández, Alicante, **SPAIN**. Collaborating Researcher.
10. **"INNO-FARM – Joint Research & Technological development Programm of West Greece"** (GSRT, Ministry of Development, GREECE) *'Design, Evolution and Therapeutic Development of New Biomolecules'* University of Patras (Total budget: 500 K€; Team budget 70 K€), **2006-2008**. Co-Investigator.
11. **"Greek-Spanish Joint R+T Collaboration Program – ΕΠΑν Μ.4.3.6.1.ε"** (GSRT, Ministry of Development, GREECE) *'Determination of the Key Residues Implicated in the Stability of the Blue Copper Protein Rusticyanin and in the Electron Transfer'* - University of Patras (Total budget: 11 K€), **2005-2007**. Principal Investigator.
12. **"FP6-2005-LIFESHEALTH. Life Sciences, genomics & biotechnology for health" (European Union)** *"Applied Venomics of the Cone Snail Species Conus Consors for the Accelerated, Cheaper, Safer and More Ethical Production of Innovative Biomedical Drugs (CONCO)"*. ContractN° 037592, www.conco.eu, **2005-2010.** University of Patras, Partner #9, Co-Investigator
13. **"C. Carathéodory" Research Grant,** *'NMR Structural Study of HDM2 & HDMX Ring Finger Domains, regulators of tumor-suppressor protein p53'* Program C.181, **2007-2010,** University of Patras (Total budget: 28 K€). Principal Investigator.
14. **"FP7-HEALTH-2007-2.1.1-5. Structure-function analysis of membrane-transporters and channels for the identification of potential drug target sites." (European Union)** *'NEUROCYPRES: Neurotrasmitter Cys-loop receptors: structure, function and disease ()',* CP-Collaborative Project, Contract N° HEALTH-F4-2008-202088, www.neurocypres.eu, **2008-2012.** University of Patras (Total budget: 589 K€), Partner #15, Principal Investigator

15. **"FP7-INFRA-2008-1.1.1. Capacities – Research Infrastructures" (European Union),** *"EAST-NMR: Enhancing Access and Services To East European users towards an efficient and coordinated pan-European pool of NMR capacities to enable global collaborative research and boost technological advancements"*, Integrated Activities, Contract N° CP-CSA-Infra-228461, www.east-nmr.eu, **2009-2013.** University of Patras (Total budget: 91 K€), Partner #12, Principal Investigator

16. **Internal Networks of University of Patras**, Collaborating Researcher in **three** networks
    - Program No C.766, *"METSNET: A network for the study of the molecular mechanisms implicated in various factors of Metabolic Syndrome"*, **2009-2012.**
    - Program No C.787, "*Network for the development and biological Evaluation of potent anti-inflammatory and anti-microbial pharmaceutical products",* www.multipotentdrugs.upatras.gr, **2009-2012.**
    - Program No C.851, "*PHARMANET: Network of Structural and Functional Studies of Molecules with Pharmaceutical value",* www.pharmanet.upatras.gr, **2009-2012**.

17. **"Greek-Turkish (GSRT-TUBITAK) Joint R+T Collaboration Program"** (GSRT, Ministry of Development, GREECE), *"Structure-Function Relationship of a new RING finger E3 ubiquitin ligase, a dominant regulator of TGF-b signaling pathway and TGF-b-dependent tumor suppression"* **2010-2012,** University of Patras (Total budget: 15 K€). Principal Investigator.

18. **«HERACLITUS II: Reinforcing the Human Research Potential through Graduate Research »** (Greek Ministry of Education, GREECE), **"***Expression, Characterization and Structural Investigation through Nuclear Magnetic Resonance (NMR) of the Bacillus anthracis Anthrax Lethal Factor Zn-protease Catalytic Site"*, **2011-2014.** University of Patras (Total budget: 45 K€), Principal Investigator.

19. **"GSRT- THALIS: Reinforcing the Human Research Potential through Graduate Research"** (GSRT, Greek Ministry of Education, GREECE), **"***Hydrogen sulfide, a new endogenous regulator of angiogenesis: signaling, physiology/pathophysiology and development of pharmacological inhibitors"*, **2011-2015.** (Coordinator: Lab. of Mol. Pharmacology, Dept. of Pharmacy), Co-Investigator.

20. **"FP7-REGPOT-2011-1. Capacities – Research Potential" (European Union),** *"SEE-DRUG: Establishment of Centre of Excellence for Structure-Based Drug Target Characterization: Strengthening the Research Capacity of South-Eastern Europe"*, Coordination & Support Actions, Contract N° CT-2011-285950, www.seedrug.upatras.gr, **2012-2015.** University of Patras (Total budget: 3.2 M€), Coordinator.

21. **"K. Caratheodory 2013" Research Program for Post-Doctoral Research**, Program No 2013-6661, *«Urine Metabolite analysis through high-resolution homo-/hetero-nuclear NMR-based metabolomics»*, **2014-2016.** University of Patras, Budget 51,5 K€ Principal Investigator.

22. **"GSRT - ARISTEIA II"**, Program No 4659, *«Biophysics-DRUGS: Diffraction and NMR experimental platform for drug screening»*, **2014-2015.** University of Patras (PI Dr. Irene Margiolaki), Team Budget ~45 K€, Co-Investigator.

23. **National Greek Roadmap of Research Infrastructure –** GSRT, Greek Ministry of Education
    - ***Research Infrastructure "INSPIRED" MIS 5002550*** – Coordinator of "UPAT-RISF" core facility of INSIPRED RI (Budget 1,57 M€)
    - ***Research Infrastructure "OMIC-ENGINE" MIS 5002636*** – PI of UPAT Team & Research Coordinator (Budget 600 K€)

24. **H2020-BG-2014-2,** BG-03-2014 - Novel marine derived biomolecules and industrial biomaterials **(European Union),** *"MARISURF: Novel, Sustainable marine Bio-surfactant / Bio-emulsifiers for commercial exploitation"*, Contract No 635340, http://www.marisurf.eu/project-partners/university-of-patras/, **2015-2020.** University of Patras (Total budget: 571 K€), Partner #11. Principal Investigator

25. **H2020-INFRAIA-2014-2015** - Integrating and opening existing national and regional research infrastructures of European interest **(European Union),** *"iNEXT: Infrastructure for NMR, EM and X-ray crystallography for translational research"*, Contract No 653706, http://www.inext-eu.org/department/22-upat/, **2015-2020.** University of Patras (Total budget: 31.5 K€), Partner #22. Principal Investigator.

26. **COST Action – CA15133 — FesBioNET, 2014-2015** - **(European Union),** *"The Biogenesis of Iron-sulfur Proteins: form Cellular Biology to Molecular Aspects",* Contract No 653706, **2015-2020.** University of Patras (http://www.fesbionet.eu/index.php). UPAT Team Leader & Vice-Chair of the action.

27. **EDMB34 - «Supporting Research teams with emphasis in the support of Young Investigators », ESPA 2014-2020**: *"The role of the catalytic domain of the E3 Ubiquitin Ligase Arkadia in enzyme's function regulation and in diagnosis",* **2018-2019,** University of Patras, (Total Budget: 56.5 K€), Principal Investigator.
28. **HFRI (ELIDEK) Program «Supporting Post-Doctoral Researchers», «***ECHNO: **E**nlightening the **C**onformational Changes of **HNO**X domain of soluble guanylate cyclase (sGC) by discrimination of diatomic gases»,* **2018-2021,** (Grant Holder: Dr. Aikaterini Zompra, Total Budget: 180 K€), PI of the Coordinating Organization.
29. **H2020-MSCA-IF-2017** - MARIE SKŁODOWSKA-CURIE ACTIONS **(European Union)**, *"**NMRSIGN**: **NMR** insights on the soluble Guanylyl Cyclase conformational dynamics to illuminate the **SIGN**aling pathway*" Contract No 795175, **2018-2020,** (Grant Holder: Dr. George Dalkas, Total Budget: 165 K€), PI of the Coordinating Organization.
30. **Region of Western Greece –** *"Supporting the Greek National Research Infrastructures of Western Greece", Total Budget 1.78* M€, Coordinator Prof. G. Angelopoulos, Dept of Chemical Engineering; Scientific Responsible for the Dept of Pharmacy: Prof. G.A. Spyroulias, Budget 550 K€.
31. **RESEARCH–CREATE-INNOVATE, MIS 5067545** (GSRT), *"POLYPEPPHARM: Improved generic polypeptide drugs with innovative pharmaceutical forms - T2ΕΔΚ-00996",* **2020-2023, (**Total Budget: 130 K€), Co-Investigator.
32. **HORIZON-INFRA-2021-DEV-01 (European Union) – "***Remote NMR (**R-NMR**): Moving NMR infrastructures to remote access capabilities",* (https://r-nmr.eu/) GA 101058595, **2022-2025***,* University of Patras (Team budget: 94K€), Partner #6. PI & Member of the Steering Board.
33. **HORIZON-WIDERA-2022-TALENTS-01 ERA Chairs (European Union) – "ESPERANCE:** *the **E**RA Chair Life **S**ciences **P**rogram to **E**mpowe**R** molecul**A**r a**N**d stru**C**tural biology initiativ**E**s at UPAT*", (https://era-esperance.eu/) GA 101087215 (DOI 10.3030/101087215), **2023-2028***,* University of Patras (Total budget: 2,5M€, UPAT's Budget 1,93M€), Coordinator.
34. **HORIZON-MSCA-2022-SE-01 (MSCA STAFF EXCHANGE, European Union) – "RIA4FOOD:** *Multi-Actor Research and Innovation Approaches for Functional Foods",* (https://ria4food.eu/) GA 101131479**, 2023-2027,** University of Patras (Team Budget: 191k€), Partner #2. PI & WP Leader.
35. **HORIZON-CL6-2022-CIRCBIO-02-two-stages (B.3 Biodiversity, Circular Economy and Environment, European Union)** - *"**TOLERATE:** Adaptation to climate change in the rhizosphere across the millennia",* (https://tolerate-eu-project.com/), GA 101082049 (DOI 10.3030/101082049), **2023-2027**, University of Patras (Team Budget: 277k€), Partner #7. PI & Team Leader.
36. **HORIZON-WIDERA-2023-ACCESS-04 (Pathways to Synergies, European Union) – "MILESTONE:** *UpstreaM synergies to overcome Locked-in effects in widEning regions and broaden internationalization pathwayS for susTainable innOvatioN and compEtitive grant applications",* (https://milestone-he.eu/), GA 101159708 (DOI: https://doi.org/10.3030/101159708), **2024-2027,** University of Patras (Total budget: 1,2M€, UPAT's Budget 477K€), Coordinator.
37. **GREEK FLAGSHIP ACTIONS in interdisciplinary scientific areas with a special interest in connection to the productive network (ID16618; MIS TA 5149305) GSRI –** *"Bridging big omic, genetic and medical data for Precision Medicine implementation in Greece",* TAEDR-0539180, http://gomedprecision.gr/ (Team Budget 48K€, PI Prof. Z. Lygerou), **2023-2025**, Collaborator.
38. **HFRI (Hellenic Foundation for Research & Innovation, Greece), 2nd H.F.R.I. Call for the Procurement of High-value Research Equipment – "iMELODY - iM***plementation of n**E**w too**L**s to b**O**ost the **D**rug discover**Y** pipeline at the Department of Pharmacy/UPAT*", Proposal ID 18879. (Total budget 445k€, PI Prof. E. Papadimitriou). Collaborator (Scientist in charge of the Microscale Thermophoresis "Monolith X" equipment and applications).
39. **EMBO Advanced Excellence Grant – "***Elucidating the activation mechanism of human soluble Guanylate Cyclase enzyme by potential drugs",* Proposal ID 11278, **2025.** (Total Budget 25K€).
40. **HFRI (Hellenic Foundation for Research & Innovation, Greece), 3rd Call for H.F.R.I.'s Research Projects to Support Faculty Members & Researcher – "TALENT:** *Novel Soluble Guanyla**T**e Cyclase Stimul**A**tors: Rationa**L** Design-Driven Optimization and Charact**E**rization of their Unique Mecha**N**ism of Ac**T**ion".* Proposal ID 26699, **2025-2028,** (Total Budget 300k€) PI & Coordinator.
41. **HORIZON-MSCA-2024-SE-01 (MSCA STAFF EXCHANGE, European Union) – "GuardAgents:** *Study of Novel Generation nanobodies for agri-food applications",* GA 101236168**, 2025-2029,** University of Patras (Team Budget: 531k€), Partner #2. PI & WP Leader.

Supervisor on Independent Competitive Research Grants (fellowships, training grants) Awarded to group members :

1. HFRI - Hellenic Foundation for Research and Innovation, **PhD Fellowship** Awarded to

- **Aikaterini Tsika** (BSc. Pharmacy, MSc, PhD Candidate), *"Structural framework study of the function of protein domains belonging to alphaviruses' replication complex via NMR spectroscopy*", (no 2430) **2017-2019.**
- **Styliani Chasapi** (BSc. Chemistry, MSc, PhD Candidate), *"Analysis and study of biomolecules and biomarkers in biofluids through NMR Spectroscopy"* (no. 1019) **2019-2021**
- **Maria Politi** (BSc. Biology, MSc, PhD Candidate), *"Expression, isolation and physicochemical characterization and Structure-Activity study of recombinant polypeptides of the transcription complex of Hepatitis 1 virus (HEV1)",* (no. 663) **2019-2022**.

2. IKY PhD-Research Scholarships "MIS 5000432", awarded to:

- **Garyfallia Makrynitsa** *"Conformational study and dynamics of HNOX proteins and their complexes with signaling molecules"* **2018-2021.**

3." IKY Post-Doctoral Research Grants, 2019", awarded to:

- **Dr. Aikaterini Argyriou** *"Study of the structural and physicochemical determinants for the recognition and binding Hepatitis C RNA molecules by La protein, through NMR Spectroscopy",* (no. 18646) **2020-2022.**
- **Dr. Maria Birkou** *"Study of the mechanism of action of Arkadia RING Domain E3 Ubiquitin Ligase in ubiquitination pathway"* (no 16984) **2020-2022.**
- **Dr. Minos-Timotheos Matsoukas** *"Allosteric targeting, structural studies and molecular basis of activation of the type 1 corticotropin-releasing factor receptor (CRF1R)",* (no 17071) **2020-2022.**

Facilities & Institutional Infrastructures:

- **Protein Production: (a)** a **Cold room** equipped with AKTA START GO FPLC system, **(b)** INFORS **Bioreactor** (bacteria and yeast), 3x Refrigerated **Incubation Shakers** & autoclave **(c) 3x UV-Visible** Spectrometers (Jasco V-630iRM Quawell Q5000 // Q9000), **(d)** AKTApurifier 10, AKTA PURE M25 & AKTA START **FPLC** systems, **(e)** Millipore Direct Q3-UV, **(f)** 2xPCR, **(g)** 5 refrigerated **centrifuges/supercentrifuge** (10-45.000rpm) & 7 rotors, **(h)** Electrophoresis systems, Analytical Balances, incubators, powerful sonicator system, water baths, -86^{o}C and -20^{o}C refrigerators, peristaltic pumps etc.
- **Imaging facility**: imager with visible light (RGB) and far red/near infrared (FR/NIR) fluorescence and chemiluminescence detection and all general gel documentation applications for stain-free imaging.
- **Structural Biology & Biophysics** : **(i)** High-field & high-definition **Bruker 700MHz NMR**, equipped with a cryogenically cooled probe for enhanced sensitivity and 4-channels (^{1}H/^{2}H/^{13}C/^{15}N), **(ii) Circular Dichroism qChirascan** Spectrometer **(iii) SEC-MALS**: Size Exclusion Chromatography coupled with Multiple Angle Light Scattering system, **(iv) micro-ITC:** Micro Isothermal Titration Calorimetry, **(v) MST – Monolith X** for protein interaction and ligand screening
  https://research.upatras.gr/idrymatikes-ypodomes/

Teaching Experience & Educational Activities in post-Graduate Programs :

- *November*	*1989*	-	*February 1994:*	***Department of Chemistry – University of Crete***
		-	*General Chemistry*	- Course & Lab training
		-	*Organic Chemisry*	- Laboratory training
		-	*Inorganic Chemistry*	- Course & Lab training
- *June*	*2000*	-	*July 2004:*	***Greek Open University***
		-	*Principles of General & Inorganic Chemistry*	- Course
- *August*	*2003*	-		***Department of Pharmacy – University of Patras***
	2003	-	*General & Analytical Chemistry*	- Laboratory Training
	2003	*-2006*	*Isolation/Purification of Natural Products*	- Laboratory Training
	2003	-	*Instrumental Analysis (NMR Spectroscopy)*	- Course
	2003	-	*Biochemistry*	- Course
	2006	-	*Informatics*	- Course
	2008	-	*Bioinorganic Chemistrsy – Molecular Simulations*	- Course & Lab Training
	2003	-2012	*Chemistry of Aminoacids, Peptides and Proteins*	– **Graduate** Course
	2003		*Drug Design*	– **Graduate** Course
	2003	-2018	*Conformational Analysis of Biomacromolecules*	– **Graduate** Course
	2003	-2012	*Protein Biochemistry*	– **Graduate** Course
	2012	-	Biomolecular NMR	– **Graduate** Course

Teaching activities to various Inter-departmental or Inter-University Graduate Studies Programs since 2003.

Training activities in Graduate Research Programs & Supervision of Experienced Researchers (since 2003)

Supervised 11 Post-Docs, 11 PhDs, >50 Masters and >120 Degree Thesis.

Advisory Committee in 20 Masters, 12 Ph.D. and Examination Committee in 21 Ph.D.

Currently: Supervision of 6 Doctoral, 8 Masters and 12 Diploma Theses.

Professional Memberships:

- Greek Chemists Association,
- Marie-Curie Fellowship Association (Hellenic MCFA, Vice-Chair, 2006- 2008),
- European Peptide Society (Greek Effective Member in EPS, 2014-),
- Ampere Committee Member (2016-)
- Hellenic Society for Biochemistry & Molecular Biology
- Hellenic Society for Computational Biology and Bioinformatics
- Hellenic Crystallographic Association

Languages:

Greek (Native), English, French, Italian.

Oral Presentations & Seminars :

(1) 05/09/1991 - *«Synthesis and Physicochemical Characterization of porphyrinic dimers with light Lanthanide ions».* **13th Greek Chemistry Conference,** Athens, GREECE.

(2) 10/07/1995 - *«Synthesis and Spectroscopy of Lanthanide Mono- and Bis- Porphyrinates».* **Invited by Prof. René Poilblanc.** Laboratoire de Chimie de Coordination, C.N.R.S, Toulouse, FRANCE.

(3) 23/04/1996 - *«Lanthanide Sandwich-like Porphyrin Complexes with Strong π-π Interactions. Synthesis, Structure and Properties».* **Invited by Prof. Jean-Claude Marchon.** Laboratoire de Chimie de Coordination. CNRS N°1194, CEA/Grenoble-DRFMC/SCIB, 17, Grenoble, France.

(4) 12/11/1999 - *«Solution Structure of Horse Heart Cytochrome c. Monitoring the Redox State-dependent Structural changes».* Department of Chemistry, University of Crete, GREECE.

(5) 23/12/1999 - *«3-D Solution Structure of Fe(III) and Fe(II) Cytochrome c through NMR Spectroscopy».* Department of Chemistry, National Kapodistrian University. Athens, GREECE**.**

(6) 02/03/2001 - *«Conformational Analysis of Biomolecules in Solution: NMR - 3D Structures - Biological Implications»* **2nd Conference in Medicinal Chemistry,** Patras, GREECE.

(7) 16/05/2001 – *«3D Solution Structure Of CRH Synthetic Analogues through NMR Spectroscopy»* **4th Chemistry Congress,** University of Ioannina, May 16th **2001,** Ioannina, GREECE.

(8) 05/12/2001 - *«Experimental Studies of Biomolecular Systems»* Department of Material Science, University of Patras, December 5th **2001,** Patras, GREECE.

(9) 8/03/2002 - *«Folding and Redox-State Dependent Structural Changes of Electron Transfer Haem Proteins»* **3rd Conference in Medicinal Chemistry: Drug Design & Development,** Patras, GREECE.

(10) 12/04/2002 - *«Conformational Analysis of Synthetic Peptides as Models of Angiotensin Converting Enzyme Active Sites»* 3rd **Hellenic Forum on Bioactive Peptides.**, Patras, GREECE.

(11) 08/11/2002 - *«Structural Features Analysis of Angiotensin-I Converting Enzyme Catalytic Sites»* **19th Hellenic Chemistry Conference,** Heraklion Crete, GREECE.

(12) 14/03/2003 - *«NMR Models of Angiotensin-I Converting Enzyme Catallytical Sites»* **4th Conference in Medicinal Chemistry : Drug Design & Development**. Patras, GREECE.

(13) 11/02/2003 - *«Design/Simulation of Bioactive Compounds of Pharmaceutical Interest»* Department of Pharmacy, University of Patras, Patras, GREECE.

(14) 12/06/2003 - *«NMR Models of the Angiotensin-I Converting Enzyme Zn(II) Catalytic Sites : The basis for a structural study on the enzyme-substrate interaction»* **7th FIGIPS (Invited Lecture),** Lisbon, PORTUGAL.

(15) 11/03/2004 - *«Monitoring the interaction between the HIV-1 gp120 V3-loop and the N-terminal CCR5 peptide constructs through NMR Spectroscopy»* **5th Conference in Medicinal Chemistry,** Patras, GREECE.

(16) 10/05/2004 - *«Solid-phase synthesis and Conformational Properties of peptide models that represents the active sites of Angiotensin-I Converting Enzyme»* **9th Naples Workshop – Peptides as therapeutics diagnostics & vaccines,** Anacapri, ITALY.

(17) 10/03/2005 - *«Molecular Modeling & NMR conformational Analysis applied in the study of Zn(II) binding sites of Biomolecules»* **6th Conference in Medicinal Chemistry,** Patras, GREECE.

(18) 09/03/2006 - *« Structure and Dynamics of E3 Ubiquitin Ligases Hdm2 & Hdmx tumor-suppressor protein p53 regulators »* **7th Conference in Medicinal Chemistry: Drug Design & Development,** Patras, GREECE.

(19) 16/05/2006 - *«NMR Study of Angiotensin-I Converting Enzyme (ACE) Synthetic Peptide-based Catalytic Site Maquettes (CSM) and CSM–Substrate/Inhibitor Interaction»* 5th **Hellenic Forum on Bioactive Peptides,** Patras, GREECE.

(20) 25/10/2006 – *«Laptop Molecular Modelling – In silico polypeptide folding into three-dimesnional and functional structure»* **Welcome Ceremony for the 1st year Undergraduate Pharmacy Students,** Patras, GREECE.

(21) 16/03/2007 - *«Study of Anthrax Lethal Factor – peptide substrate Interaction: Implications for Structure-Guided Design of Bioactive Molecules»* **8th Conference in Medicinal Chemistry,** Patras, GREECE.

(22) 26/06/2007 - *«Anthrax Lethal Factor catalytic domain: A Platform for Structure-Guided Design of Bioactive Molecules»* Invited by **Dr. Nikos Oikonomakos,** National Hellenic Research Foundation Institute of Organic & Pharmaceutical Chemistry, Athens, GREECE.

(23) 20/10/2007 - *«Protein Data Bank and Structure Quality Assessment»* **Workshop on "Bioinformatics - "Computational Methods in Biological Data Mining", 5th General Meeting of the International Proteolysis Society (IPS2007)**, Patras, GREECE.

(24) 15/11/2007 - *«A residue specific view of Anthrax Lethal Factor – peptide substrate Interaction: Implications for Structure-Guided Design of Bioactive Molecules»* Invited by **Prof. Morten Grötli,** University of Göteborg, Department of Chemistry, Medicinal Chemistry, Göteborg, SWEDEN.

(25) 14/03/2008 - *«An Atomic Level Insight into Anthrax Lethal Factor (LF) Substrate Selectivity » Invited by* ***Organizing Committee,*** **13th Hellenic Symposium on Medicinal Chemistry (HSMC-13)**, Athens, GREECE.

(26) 21/05/2008 *«Conformational properties of Proteins & Biomolecular Simulations»*, **Workshop - 4th CONCO Consortium Meeting**, Patras, GREECE.

(27) 04/06/2008 - *« NMR-based structure determination of biomolecules – Part I & II » & « Practical session: Analysis of 2D Homonuclear NMR Data» Invited by* ***Organizing Committee,*** **1st Workshop on Structure-Based Drug Design**, Athens, GREECE.

(28) 26/09/2008 - *«NMR insights into the concerted action of a Sco1 and a putative copper chaperone to the CuA assembly mechanism» Invited by* ***Organizing Committee,*** **4th Conference of the Hellenic Crystallographic Association**, Athens, GREECE.

(29) 30/10/2008 - *«Docking and Molecular Dynamics Simulations to gain an atomic level insight into Anthrax Lethal Factor (LF) Substrate interaction»* **3rd Conference of the Hellenic Society for Computational Biology and Bioinformatics HSCBB08,** EKETA, Thassaloniki, GREECE.

(30) 30/10/2008 - *«Conformational Plasticity of Ring finger E3 Ubiquitin ligases of p53 tumor suppressor protein»* **3rd Conference of the Hellenic Society for Computational Biology and Bioinformatics HSCBB08,** EKETA, Thassaloniki, GREECE.

(31) 30/01/2009 – *«Computational Insights into the conformational dynamics of nAChr 5mer and α1-toxin complexes – Preliminary NMR studies of nAChR subunits»* **1st Annual meeting - EU FP7 Neurocypres.** Hellenic Pasteur Institute, Athens, GREECE.

(32) 31/01/2009 - *«Preliminary NMR studies of a Cys-loop family prokaryotic homologue»* **1st Annual meeting - EU FP7 Neurocypres.** Hellenic Pasteur Institute, Athens, GREECE.

(33) 01/02/2009 - *«1. NMR Screening of ligand-AChR interaction, first results; 2. Virtual screening of 400 di-peptides on nAChR»* **1st Annual meeting - EU FP7 Neurocypres.** Hellenic Pasteur Institute, Athens, GREECE.

(34) 18/03/2009 – *«Structure-Activity Relationship in Biomolecules through NMR»* Invited by **Prof. K. Kypraios**, Department of Medicine, University of Patras, GREECE.

(35) 30/03/2009 – «*Structural bioinformatics at University of Patras. Biomolecular simulations & NMR applications to study protein architecture and socialization***» HSCBB – GSRT – ELIXIR meeting,** National Hellenic Research Foundation Institute, Athens, GREECE.

(36) 08/05/2010 – « *NMR Studies of GLIC prokaryotic AChR homologue and Current Progress in Labeling Strategies towards a Complete Resonance Assignment and Structure Determination »* **2nd Annual meeting - EU FP7 Neurocypres.** Marseille, FRANCE.

(37) 17/06/2010 – «*Bioinorganic Chemistry of Zinc(II): NMR study of the Structure-Activity Relationship of oncoproteins and tumor suppressors»* **Department of Chemistry, University of Patras,** 17 June 2010, Patras, GRRECE.

(38) 24/09/2010 – *«Structure-Activity Relationship of Arkadia Ring finger E3 ubiquitin ligase through NMR spectroscopy»* **18th Euro QSAR,** 19-24 September 2010, Rhodes, GREECE.

(39) 01/10/2010 – *«NMR-Based Residue Specific Insights into the Structure-Function Correlation of Arkadia E3 Ubiquitin Ligase Ring Finger Domain»* **EAST-NMR 1st Young Investigators Meeting,** 29 September to 1 October 2010, Istanbul, TURKEY.

(40) 02/11/2010 – *« NMR insights into the conformational dynamics of native and engineered forms of Arkadia E3 Ubiquitin ligase C-terminal Domain»* **"NMR in Life Sciences" – 3rd International Symposium on Organic Chemistry,**

30th October to 2nd November, Sofia, BULGARY.

(41) 17/01/2011 – «*Conformation, Dynamics and Interaction of peptides and proteins observed through NMR Spectroscopy»* **Department of Pharmacy, University of Patras,** 17 January 2011, Patras, GRRECE.

(42) 19/09/2011 – «*NMR Structural Biology at University of Patras»* **GREEK NMR Users Meeting** organized by BRUKER Biospin & FP7 EAST-NMR**,** 19-20 September 2011, Athens, GREECE.

(43) 8/10/2011 – «*NMR-driven docking of protein partners involved in ubiquitination pathway*»**, 6th Conference of the Hellenic Society for Computational Biology and Bioinformatics - HSCBB11,** University of Patras, 08 October 2011, Patras, GREECE.

(44) 17/10/2011 – «*Expression, characterization and NMR studies of RING domain of Arkadia tumor suppressor»**,** *Invited by* ***Prof. C. Kalofonos***, Department of Medicine, Oncology Sector, University of Patras, GREECE.

(45) 04/11/2011 – *«Structural Biology Through Biomolecular NMR»* Invited by **Dr. E Tsilibary,** Director of Institute of Biology, N.C.S.R. "Demokritos", 04 November 2011, Athens, GREECE.

(46) 07/11/2011 – «*NMR Structural Biology at University of Patras – The SEE-DRUG project*» **Structure– & Computer– Aided Design Workshop: Bioactive Molecules & Materials** & **INSTRUCT-EL Meeting,** National Hellenic Research Foundation, 07-11 November 2011, Athens, GREECE.

(47) 11/12/2011 – «*Solution NMR study of the monomeric extracellular domain of a nAChR prokaryotic homologue»* **62nd EEBMB Conference,** 9-11 December 2011, Athens, GREECE.

(48) 11/01/2012 – «*Conformational plasticity of polypeptides through Biomolecular NMR Spectroscopy»* Invited by **Prof. T. Mavromoustakos,** Department of Chemistry, University of Athens, Athens, GREECE.

(49) 17/04/2012 – «*NMR study of Arkadia E3 ubiquitin ligase domain to correlate Zn(II) coordination with protein architecture, dynamics and function»* **12th EURASIA Conference in Chemical Sciences,** 17-21 April 2012, Corfu GREECE.

(50) 19/05/2012 – *«Conformational Dynamics and Drug Design Approaches through NMR - Basics and Applications »* **2nd Summer School of Proteins,** Invited by **Prof. C. Vorgias,** Department of Biology, University of Athens, 18-20 May 2012, Athens, GREECE.

(51) 26/05/2012 – «*Identifying functionally important residues of Arkadia E3 Ubiquitin Ligase RING Domain in E2 Recruitment and E3-E2 Interaction »* **15th Symposium on Medicinal Chemistry,** 25-27 May 2012, Athens, GREECE.

(52) 28/05/2012 – *«NMR Conformational Dynamics and SAR studies of biologically relevant macromolecules»* **3rd ARCADE Workshop,** National Hellenic Research Foundation, 28-30 May 2012, Athens GREECE.

(53) 04/06/2012 – *«The SEE DRUG Project at University of Patras»* **WIRE2012 – Week of Innovative Regions in Europe,** Invited by the **WIRE2012 Organizing Committee & REGPOT Program Officer,** 03-05 June 2012, Krakow, POLLAND.

(54) 09/06/2012 – *«Insights on the conformational exchange properties of GLIC ECD by solution NMR - Implications on 5/6mer subunit socialization».* **4th Annual meeting - EU FP7 Neurocypres,** 07-10 June 2012, Vienna, AUSTRIA.

(55) 22/06/2012 – *«Elucidating the intrinsic plasticity of the extracellular domain of a prokaryotic nAChR homologue by solution NMR - implications on 5/6mer subunit socialization»*, Invited by **Prof. Anna-Maria Papini**, Department of Chemistry, University of Florence, ITALY.

(56) 04/09/2012 – *«Selective amino acid isotope labeling strategies for solution NMR studies of high-molecular-weight protein drug-targets»* **32nd European Peptide Symposium,** 04 September 2012, Athens, GREECE.

(57) 29/09/2012 – *«NMR-driven Structure Function Correlation studies of Arkadia E3 Ubiquitin Ligase RING domain»*, **6th Conference of the Hellenic Crystallographic Association**, 28-29 September, Athens, GREECE.

(58) 09/11/2012 – *«Conformational Dynamics & Function of Proteins by Solution NMR»*, Invited by **Prof. Michael Orfanopoulos**, Department of Chemistry, University of Crete, GREECE.

(59) 10/11/2012 – *«NMR Insights on the functional modulation of the RING domain of Arkadia tumor suppressor»*, **63rd EEBMB Conference,** 9-11 November 2012, Heraklion Crete, GREECE.

(60) 15/11/2012 – *«NMR Structural Biology at University of Patras & the SEEDRUG Project »*, **3rd EAST-NMR Anual User Meeting,** 13-16 November 2012, Lasko, SLOVENIA.

(61) 08/12/2012 – *«Solution NMR Studies of E3 Ub Ligase RING and Alphaviruses MACRO Domains»*, **Turkish NMR Meeting,** 07-09 December 2012, Istanbul, TURKEY.

(62) 19/03/2013 – *«Conformational Dynamics of Proteins, Biomolecular Interactions and Drug Design Efforts using NMR»*, Invited by Assoc Prof. S. Taraviras, **Department of Medicine, University of Patras**, GREECE.

(63) 12/04/2013 – *«State-of-the-art NMR instrumentation & modern NMR applications in the service of Life Sciences»*, **1st Forum of Health,** Patras, GREECE.

(64) 31/05/2013 – *« High-resolution analysis of protein structure, dynamics and interaction through Biomolecular NMR »*, **«NANOTHEO» Workshop, University of Patras,** GREECE.

(65) 24/09/2013 – *« NMR conformational dynamics of proteins & protein complexes »*, IAEA Meeting, **University of Patras,** GREECE.

(66) 26/09/2013 – *«Conformational Dynamics and Drug Design Approaches through NMR»,* **5th BBBB International Conference 2013, 26-28 September, Athens,** GREECE.

(67) 11/10/2013 – *«SEEDRUG Biomolecular 700MHz NMR Facility»*, **Inauguration of the SEEDRUG Biomolecular NMR Facility,** Rion, GREECE.

(68) 06/04/2014 - *«Structural Biology by NMR: Knowledge transfer form EU RIs to Greece»*, **ICRI-2014 – *Strategic pipeline planning: from sample preparation to 3D structure determination with bio SAXS and other biophysical techniques*,** National Hellenic Research Foundation, Athens, GREECE.

(69) 20/05/2014 - *«Insights on the conformational plasticity of drug-target proteins»* **32nd Cyprus – Noordwijkerhout – Camerino Symposium – Trends in Drug Research**, May 18-23, 2014, Limassol, CYPRUS.

(70) 28/05/2014 - *«Atomic-level investigation of Structure, Dynamics & Interactions of proteins, through Biomolecular NMR»,* Invited by Assoc Prof. D. Leonidas, **Department of Biochemistry & Biotechnology, University of Thessaly,** Larissa, GREECE.

(71) 21/09/2014 - *«NMR Conformational Dynamics of La and RRM1 Motifs of La Protein»,* **CTSB & HeCrA7,** FORTH-IMBB, Heraklion Crete, GREECE.

(72) 10/10/2014 - *«Application of NMR Spectroscopy to the study of biomolecules and pharmaceutical targets»,* **2nd Conference of Pharmaceutical Sciences,** University of Patras, GREECE.

(73) 13/10/2014 - *«Atomic-level investigation of Structure, Dynamics & Interactions of proteins, through Biomolecular NMR»,* **Greek NMR Users Meeting,** Athens, GREECE.

(74) 13/02/2015 - «*Conformation, Plasticity and Socialization of biomolecules through NMR »* invited by Dr. Iro Georgoussi**, NCSR Demokritos,** Institute of Biosciences & Applications, Athens, GREECE.

(75) 26/04/2015 – «*Biomolecular NMR methods for the study of biologically relevant macromolecules and their complexes»* University of Thrace**,** Alexandroupoli, GREECE.

(76) 27/05/2015 – «*NMR insights into the Conformational Dynamics and interaction of biomolecules with therapeutic interest»* invited by the Organizing Committee of the **1st International Conference of Controlled Release Society,** Athens, GREECE.

(77) 26/06/2015 – «*High Resolution solution NMR studies of Biomacromolecules»* In Memorial Event for the Late Prof Giannis Elemes (1962-2014), Department fo Chemistry, University of Ioannina. GREECE

(78) 09/10/2015 – «*NMR Spectroscopy Applications to study biomolecules and biomolecular drug targets»*, **17th Greek National Pharmaceutical Conference**, Athens.

(79) 21/04/2016 – «*NMR Insights on the conformational plasticity and interaction of biomolecules»*, **REGPOT-InnovCrete Seminars**, FORTH-IMBB, University of Crete, Heraklion, Crete, Greece

(80) 14/05/2016 – "*NMR Applications on the study of the biomolecules as potential drug target",* **2nd Greek Conference of Applied Pharmacy**, Thessaloniki, Greece

(81) 21/05/2016 – «*Biomolecular NMR methods for the study of biologically relevant macromolecules and their complexes»* University of Thrace**,** Alexandroupoli, GREECE.

(82) 08/06/2016 – « *NMR conformational dynamics & RNA recognition properties of La protein domains La, RRM1 and RRM2»,* **Chianti Workshop 2016,** June 5-10, 2016, Grosetto, Italy

(83) 23/06/2016 – «*NMR insights into the Conformational Dynamics and interaction of biomolecules with therapeutic interest»* invited by the Organizing Committee of the **2nd International Conference of Controlled Release Society,** Athens, GREECE.

(84) 02/12/2016 – "*Solution NMR Spectroscopy to study the conformation, the dynamics and the interaction of biomolecules*", invited by Assoc. Prof. Leufkothea Papadopoulou, **Department of Pharmacy,** Aristotle University of Thessaloniki**,** December 2, GREECE.

(85) 03/12/2016 – *"NMR in Chemistry, Biology, Drug Design & Diagnostics",* **22nd PanHellenic Conference of Chemistry,** December 2-4, Thessaloniki, GREECE.

(86) 18/02/2017 – *"The role of Biomolecular NMR on Health Sciences",* **3rd Conference of Pharmaceutical Sciences,** 18-19 February, Thessaloniki.

(87) 12/03/2017 – «*Applications of NMR Spectroscopy in the study of biomolecules and pharmaceutical targets»,* **U of Thrace Graduate Studies Program "Translational Research in Biomedicine",** Department of Molecular Biology & Genetics**, University of Thrace,** Alexandroupoli, Greece.

(88) 27/04/2017 – *"Targeting the architecture, the plasticity and the socialization determinants of biomolecules with pharmaceutical interest by NMR",* Invited by Prof. Steve Euston, **Heriot-Watt University, Edinburgh, UK.**

(89) 05/05/2017 – *"NMR Approaches in Structural Biology & Drug Design",* **Meeting on "Biochemistry & Health: From the cell to the therapy",** University of Thessaly, Larissa, Greece.

(90) 6/05/2017 – *"Modern NMR methods in Drug Design and Metabolomics",* **3rd Greek Conference of Applied Pharmacy**, Thessaloniki, Greece.

(91) 20/05/2017 – *«NMR Application in Biomedicine»*, **5th Forum of Health,** Patras, Greece.

(92) 26/06/2017 – *"NMR studies of RNA and ADP-ribose binding proteins",* Invited by Prof. Michael Sattler, Chair for Biomolecular NMR Spectroscopy, **Technical University of Munich, STB Institute of Structural Biology,** Bavarian NMR Center (BNMRZ), Munich, Germany.

(93) 02/10/2017 – *"Gas sensing in a heme protein monitored through NMR*", **2nd COST "FesBioNet" Meeting**, Trest 1-4 October 2017, Czech Republic.

(94) 04/05/2018 – *"NMR Applications in Metabolomic Analysis of Bio-fluids/tissues and Diagnostics",* **4th Greek Conference of Applied Pharmacy**, Thessaloniki, Greece.

(95) 21/05/2018 – *"NMR Studies of Heme Proteins",* **2nd Synthetic & Medicinal Chemistry Symposium,** Department of Pharmacy, U of Patras, Greece

(96) 30/05/2018 – «*Gas-inflow triggered stimulation of a heme enzyme monitored by NMR»,* **EMBO Workshop - Challenges for magnetic resonance in life sciences,** 27-31 May 2018, Grosseto, Italy.

(97) 22/09/2018 – "*Studies of Heme Proteins"* Invited Lecture, **"Chemistry at the interface of Biology and Medicine"**, 21-25 September 2018, Heraklion - Crete, Greece

(98) 06/10/2018 – *"NMR conformational Dynamics of RNA- and nucleotide- binding proteins",* Invited Lecture **HeCrA9,** 6-8 October, Patras, Greece

(99) 25/11/2018 – *"The structural and dynamic basis for the function of biological molecules through solution NMR spectroscopy",* Invited Lecture, **69th Conference of the Hellenic Society of Biochemistry & Molecular Biology** November 23-25, 2018 Hotel Imperial, Larissa, Greece

(100) 14/12/2018 – *«NMR Conformational Dynamics of soluble Guanylate Cyclase (sGC) bacterial homologues – Implication for enzyme activation»*, Invited by Assoc. Prof. Lefkothea Papadopoulou, Department of Pharmacy, Aristotle University of Thessaloniki, Greece.

(101) 13/02/2019 – *«Modern research Approaches in Biosciences»*, **Diakideios School of Patras,** Patras, Greece.

(102) 15/03/2019 - *«NMR Conformational Dynamics of soluble Guanylate Cyclase (sGC) bacterial homologues – Implication for enzyme activation»*, Invited by Assoc. Prof. Aglaia Pappa, Department of Molecular Biology & Genetics, **Democritus University of Thrace**, Alexandroupoli, Greece.

(103) 04/09/2019 – *"NMR insights on the activation mechanism of a heme enzyme"* Invited Lecture, **Central European NMR Symposium & Bruker users meeting,** University of Belgrade, Faculty of Chemistry, 04-05 September 2019, Serbia

(104) 17/09/2019 – *"NMR studies of RNA- and nucleotide- binding proteins*", **4nd COST "FesBioNet" Meeting**, Gdansk 16-19 September 2019, Poland.

(105) 12/10/2019 – *"NMR studies of RNA- and nucleotide-binding proteins",* **Hellenic Bioinformatic Conference 2019,** Heraklion Crete, 10-13 October, Greece.

(106) 24/09/2020 - «*The structural and dynamic basis for the function of biological molecules through solution NMR spectroscopy»* **Adriatic NMR Conference** 2020, May 26-28, Peroj, Croatia, 2020

(107) 25/02/2021 – *"NMR Structural biology of SARS-CoV-2 nsP3 proteins; new targets for viral replication inhibition"*, **18th Hellenic Symposium on Medicinal Chemistry,** *On-line Symposium,* 25-27 February, 2021.

(108) 23/05/2021 – *"New SARS-CoV-2 protein targets for Remdesivir – A potential new approach against COVID-19",* **7th Greek Conference of Applied Pharmacy**, Thessaloniki, Greece

(109) 16/03/2021 – *"Structural Biology of SARS-CoV-2 nsP3 proteins; New targets for viral replication inhibition"* **COVID19-NMR Meeting,** Virtual Meeting, Hosted by Prof. Harald Schwalbe, Goethe University of Frankfurt, GERMANY

(110) 21/05/2022 – *"BioNMR in Life Sciences and Magnetic Resonance Diagnostics",* **8th Greek Conference of Applied Pharmacy**, Thessaloniki, Greece

(111) 21/06/2022 – "*NMR Structural biology of SARS-CoV-2 nsP3 proteins; new targets for viral replication inhibition".* **Chianti Workshop 2022,** June 18-24, 2022, Grosetto, Italy

(112) 21/10/2022 - "*Exploiting NMR conformational and functional dynamics in drug design efforts". **CAPSTONE Workshop,* National Kapodistrian University of Athens**, Department of Biology, Athens, Greece

(113) 24/02/2023 – *"The ESPERANCE ERA Chair program at UPAT and its links with EU & National RIs". Invited presentation* in "Greek WIDERA-RI national info day", **Virtual Meeting, organized by the Greek National Contact Point in WIDERA program,** Athens, Greece

(114) 07/05/2023 – «*Biomolecular NMR application in metabolomics and diagnostics"*, May 7, 2023, University of Thrace, Alexandrouplolis, Greece

(115) 16/05/2023 - "*Study of human and viral proteins implicated in immune response"***, 9th Greek Conference of Applied Pharmacy**, Thessaloniki, Greece

(116) 13/06/2023 – *"NMR monitoring of heme enzyme's functional dynamics and their role in the activation mechanism",* **16th ISABC (International Symposium in Applied Bioinorganic Chemistry),** 11-14 June, 2023, Ioannina, Greece.

(117) 23/06/2023 – *"NMR investigation of human and viral protein homologues implicated in immune response*", **2023 BRUKER Greek NMR Users Meeting**, June 23, 2023, Athens, Greece.

(118) 22/10/2023 – *"NMR investigation of human and viral protein homologues implicated in immune response*", **11th HECRA Conference**, October 22, 2023, Larissa, Greece.

(119) 01/02/2024 – *"NMR investigation of protein "players" in the ADP-ribosylation pathway*", **Goethe University of Frankfurt, BMRZ Center,** Invited by Prof. Harald Schwalbe, February 01, 2024, Frankfurt, GERMANY.

(120) 08/04/2024 – *"NMR investigation of protein "players" in the ADP-ribosylation pathway*", **The Netherland Cancer Institute,** Invited by Prof. Anastassis Perrakis, April 08, 2024, Amsterdam, THE NETHERLANDS.

(121) 18/04/2024 – *"NMR investigation of protein "players" in the ADP-ribosylation pathway*", **University of Crete**, April 18, 2024, Herakleion, GREECE.

(122) 18/05/2024 - "*Structural Biology to explore biological processes at molecular level"***, 10th Greek Conference of Applied Pharmacy**, Thessaloniki, GREECE

(123) 24/05/2024 – *"NMR investigation of protein "players" in the ADP-ribosylation pathway*", **Department of Chemistry,** Aristotle University of Thessaloniki, Invited by Prof. Vasiliki Sarli, May 24, 2024, Thessaloniki, GREECE.

(124) 26/05/2024 – *"NMR investigation of protein "players" in the ADP-ribosylation pathway*", **PESFFA Conference (5th Greek Scientific Conference of Pharmacy Students,** Aristotle University of Thessaloniki, May 24, 2024, Thessaloniki, GREECE.

(125) 26/09/2024 – *"NMR investigation of protein "players" in the ADP-ribosylation pathway*", **29th Panhellenic Chemistry Conference**, September 25-28, 2024, National Kapodistrian University of Athens, GREECE.

(126) 13/11/2024 – *"Integrative Structural Biology of human and viral protein "players" in the ADP-ribosylation pathway*", **Autonomous University of Barcelona,** Invited by Prof. Ester Boix Borras, November 13, 2024, Barcelona. SPAIN

(127) 08/12/2024 – "*Integrative Structural Biology at University of Patras - Building Research Infrastructure & Careers: A Personal Perspective",* **GPSF Career Month,** December 08, 2024, U of Patras, GR

(128) 08/04/2025 – *"Integrative Structural Biology to study human & viral proteins "players" in ADP-ribosylation pathway",* **Medical School**, U of Patras, GR

(**129) 09-11/04/2025** –"*NMR evaluation of ligand binding among protein players in the ADP-ribosylation pathway",* **European Conference on Allostery in Drug Discovery,** 9-11 April, 2025, BRFAA, Athens, Greece.

(130) 11/05/2025 - "*NMR evaluation of ligand binding among protein players in the ADP ribosylation pathway"* **FEBS Advanced Course: PARP2025: from molecular aspects to clinical applications",** 11-15 May, 2025, Illkirch, Strasbourg, FR

(131) 03/07/2025 – *"Integrative structural biology to study ADP-ribose binding proteins and ADP-ribose hydrolases",* **1st International Meeting on RNA & RNases,** 3-4 July, 2025, Barcelona, Spain.

Journal Publications in peer-reviewed scientific journals (as corresponding author: underlined) :

1. A.G. Coutsolelos, **G.A. Spyroulias.** *Dysprosium Metallation to Substituted Tetraaryl-porphyrin Complexes ; Synthesis and Spectroscopic Characterization*.
   Polyhedron, *13*, 647-653 **(1994)**.
2. E.M. Davoras, **G.A. Spyroulias,** E. Mikros, A.G. Coutsolelos. *^{1}H NMR Spectroscopic Elucidation of Stereochemical Effects of Substituted Cerium Porphyrin Double-Deckers*.
   Inorganic Chemistry, *33*, 3430-3434 **(1994).**
3. **G.A. Spyroulias,** A.G. Coutsolelos. *Synthesis and Spectroscopic studies of Lanthanide monoporphyrinates with meso-tetra-aryl porphyrinate Bearing Bromides on β -Pyrrole Positions or Fluorides on phenyl groups.*
   Polyhedron, *14*, 2483-2490 **(1995).**
4. **G.A. Spyroulias,** A.G. Coutsolelos, C.P. Raptopoulou, A. Terzis. *Synthesis, Characterization, and X-ray Study of Sm(III) Heteroleptic Porphyrin Double-Decker.*
   Inorganic Chemistry, *34*, 2476-2479 **(1995).**
5. **G.A. Spyroulias,** M.P. Sioubara, A.G. Coutsolelos. *Cationic Lanthanide Monoporphyrinates with Sm, Eu, Gd and Tb. Synthesis and Spectroscopic Properties in Aqueous and Non Aqueous Media.*
   Polyhedron, *14*, 3563-3571 **(1995).**
6. **G.A. Spyroulias,** A.G. Coutsolelos. *Evidence of Protonated and Deprotonated Forms of Symmetrical and Asymmetrical Lutetium(III) Porphyrin Double-Deckers by ^{1}H NMR Spectroscopy.*
   Inorganic Chemistry, *35*, 1382-1385 **(1996).**
7. **G. A. Spyroulias,** A.G. Coutsolelos, D. de Montauzon, R. Poilblanc. *Electrochemical Studies of Protonated and Deprotonated Forms of Heteroleptic and Homoleptic Europium and Dysprosium Porphyrin Double-Deckers.*
   Journal of Coordination Chemistry, *39*, 89-96 **(1996).**
8. I. Bertini, A.G. Coutsolelos, A. Dikiy, C. Luchinat, **G.A. Spyroulias,** A. Troganis. *Structural and Dynamic Information on Double-Decker Yb^{3+} and Dy^{3+} Porphyrin Complexes in Solution through ^{1}H NMR*.
   Inorganic Chemistry, *35*, 6308-6315 **(1996).**
9. P. Battioni, E. Cardin, M. Louloudi, B. Schöllhorn, **G.A. Spyroulias,** D. Mansuy, T.G. Traylor. *«Metalloporphyrinosilicas» : A New Class of Hybrid Organic-Inorganic Materials Acting as Selective Biomimetic Oxidation Catalysts.*
   J. Chem. Soc., Chemical Communication, 2037-2038 **(1996).**
10. **G.A. Spyroulias,** A.P. Despotopoulos, C.P. Raptopoulou, A. Terzis, A.G. Coutsolelos. *First X-ray Crystal Structure of a Non-Planar Lanthanide(III) Monoporphyrinate.*
    J. Chem. Soc., Chemical Communication, 783-784 **(1997).**
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Deposited Structural and NMR data- Atomic Coordinates of NMR models & Chemical Shifts :

PDB – Protein Data Bank (http://www.rcsb.org/pdb/)

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(4) **1GOE** Monitoring the structural consequences of Phe12->Dphe12 and Leu15->Aib15 substitution in h/r Corticotropin Releasing Hormone: Implications for design of CRH antagonists, NMR 40 models **(2001)**
(5) **1MNY** Dimethyl propionate ester heme-containing cytochrome b5 **(2002)**
(6) **1N9U** Differences and Similarities in Solution Structures of Angiotensin I & II: Implication for Strucure-Function Relationship (Angiotensin-I), NMR 21 structures **(2003)**
(7) **1N9V** Differences and Similarities in Solution Structures of Angiotensin I & II: Implication for Strucure-Function Relationship (Angiotensin-II), NMR 21 structures **(2003)**
(8) **1YL8** 3D Solution Structure of [Tyr3]Octreotate derivatives in DMSO, NMR 21 Structures **(2005)**
(9) **1YL9** 3D Solution Structure of [Tyr3]Octreotate derivatives in DMSO, NMR 21 Structures **(2005)**
(10) **1YY1** NMR Conformational Analysis of LHRH and its analogues, NMR 21 Structures **(2006)**
(11) **1YY2** NMR Conformational Analysis of LHRH and its analogues, NMR 21 Structures **(2006)**
(12) **2GCF** Solution structure of the N-terminal domain of the copper(I) ATPase PacS in its apo form, **(2006)**
(13) **2K6W** Solution structures of apo PCuA (*trans* conformation of the peptide bond involving the nitrogen of P14) **(2008)**
(14) **2K70** Solution structures of copper loaded form PCuA (*cis* conformation of the peptide bond involving the nitrogen of P14), NMR 31 Structures **(2008)**
(15) **2K6Y** Solution structures of apo form PCuA (*cis* conformation of the peptide bond involving the nitrogen of P14), NMR 31 Structures **(2008)**
(16) **2K6Z** Solution structures of copper loaded form PCuA (*trans* conformation of the peptide bond involving the nitrogen of P14)**,** NMR 31 Structures **(2008)**
(17) **2K6V** Solution structures of apo Sco1 protein from *Thermus Thermophilus*, NMR 31 Structures **(2008)**
(18) **2KIZ** Solution structure of Arkadia RING-H2 finger domain, NMR 31 Structures **(2009)**
(19) **2L0R** NMR structure of the C-terminal Catalytic core domain of Anthrax Lethal Factor, 31 models **(2010)**
(20) **2M5W** NMR Solution structure of the La motif of *Dictyostelium discoideum* La protein, 31 models **(2013)**
(21) **5IQ5** NMR solution structure of Mayaro virus macro domain, 21 models **(2016)**
(22) **5ISN** NMR solution structure of macro domain from Venezuelan equine encephalitis virus, 21 models **(2016)**
(23) **5LG0** Solution NMR structure of Tryptophan to Alanine mutant of Arkadia RING domain, 31 models **(2016)**
(24) **5LG7** Solution NMR structure of Tryptophan to Arginine mutant of Arkadia RING domain, 31 models **(2016)**
(25) **5MQX** NMR solution structure of macro domain from Venezuelan equine encephalitis virus (VEEV) in complex with ADP-ribose, 21 models (**2016)**
(26) **6XXU** Solution NMR structure of the native form of UbcH7 (UBE2L3) **(2019)**
(27) **7P27** NMR solution structure of from Chikungunya virus macro domain **(2021)**
(28) **7P2K** Solution NMR Structure of Arginine to Cysteine mutant of Arkadia RING domain **(2021)**
(29) **7P2O** NMR solution structure of SUD-C domain of SARS-CoV-2 **(2021)**
(30) **7P2K** Solution NMR Structure of Arginine to Cysteine mutant of Arkadia RING domain **(2021)**
(31) **9QYD** PARP9 Macro domain 1, Free form **(2025)**
(32) **9QYE** PARP9 Macro domain 1 in complex with ADPr **(2025)**
(33) **9QYF** PARP9 Macro Domain 2 in complex with ADPr **(2025)**
(34) **9QYG** PARP9 Macro Domain 2 Free form **(2025)**
(35) **9QYH** PARP9 Macro Domain 2 in complex with NAD+ **(2025)**

BMRB – Biological Magnetic Resonance Bank (http://www.bmrb.wisc.edu/)

(1) **4189** Cytochrome c reduced (from Horse heart) **(1999)**

(2) **20015** NMR evidence of charge-dependent interaction between various PND V3 and CCR5 N-terminal peptides, SF2, NMR 21 structures **(2008)**

(3) **20019** NMR evidence of charge-dependent interaction between various PND V3 and CCR5 N-terminal peptides, MN, NMR 21 structures **(2008)**

(4) **20020** NMR evidence of charge-dependent interaction between various PND V3 and CCR5 N-terminal peptides, LAI, NMR 21 structures **(2008)**

(5) **20062** 3D Solution Structure of MBP83-99 peptide in DMSO, NMR 21 structures (**2008)**

(6) **15948** ^{1}H, ^{13}C, and ^{15}N Chemical Shift Assignments for the RING finger of the E3 ubiquitin ligase *Arkadia* (RNF111) **(2008)**

(7) **16735** NMR resonance assignment of the apo C-terminal polypeptide of the *Anthrax Lethal Factor* catalytic domain **(2010)**

(8) **17695** Backbone Chemical Shift Assignments of the Extracellular domain of *GLIC*, a prokaryotic nAChR homologue **(2011)**

(9) **18620** NMR Chemical Shift Assignments of N terminal RRM domain of La protein from *Dictyostelium Discoedium* **(2012)**

(10) **18621** NMR Chemical Shift Assignments of N terminal La motif domain of La protein from *Dictyostelium Discoedium* **(2012)**

(11) **19803** NMR resonance assignment of the N-terminal polypeptide of the *Anthrax Lethal Factor* **(2014)**

(12) **19927** 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) **(2014)**

(13) **19967** NMR Chemical Shift Assignments of C terminal RRM domain of La protein from *Dictyostelium Discoedium* **(2014)**

(14) **25132** NMR study of non-structural proteins – Part II. ^{1}H, ^{13}C, ^{15}N backbone and side-chain resonance assignment of macro domain from *Venezuelean Equine Encephalitis* virus (VEEV) **(2014)**

(15) **25239** NMR Chemical Shift Assignments of LAM-RRM1 of La protein from *Dictyostelium Discoedium* **(2014)**

(16) **25248** ^{1}H, ^{13}C, and ^{15}N Chemical Shift Assignments for the W972R mutant of Arkadia (RNF111) E3 RING domain **(2014)**

(17) **25249** ^{1}H, ^{13}C, and ^{15}N Chemical Shift Assignments for the W972A mutant of Arkadia (RNF111) E3 RING domain **(2014)**

(18) **25351** ^{1}H, ^{13}C and ^{15}N Chemical Shift Assignments for the H962C mutant of Arkadia (RNF111) E3 RING domain **(2014)**

(19) **25392** ^{1}H, ^{13}C and ^{15}N Chemical Shift Assignments for the H965C mutant of Arkadia (RNF111) E3 RING domain **(2014)**

(20) **26748** NMR study of Met-1 *Human* Angiogenin - ^{1}H, ^{13}C, ^{15}N backbone and side chain resonance assignment **(2016)**

(21) **26753** NMR study of non-structural proteins - ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *Venezuelean Equine Encephalitis* virus (VEEV) in complex with ADP-ribose **(2016)**

(22) **26048** ^{1}H, ^{13}C, ^{15}N backbone and side-chain resonance assignment of *Nostoc sp.* C139A variant of the heme–nitric oxide/oxygen binding (H-NOX) domain **(2016)**

(23) **27158** NMR study of non-structural proteins – Part III. ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *Chikungunya* virus (CHIKV) **(2017)**

(24) **30043** NMR solution structure of Mayaro virus macro domain **(2017)**

(25) **27612** NMR study of non-structural proteins - ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *Mayaro virus* (MAYV) in complex with ADP-ribose **(2018)**

(26) **28028** ^{1}H, ^{13}C, ^{15}N backbone and side-chain assignment of the native form of UbcH7 (UBE3L2) **(2019)**

(27) **28118** ^{1}H, ^{13}C, ^{15}N backbone and side-chain resonance assignment of Nostoc sp. C139A variant of the heme nitric oxide/oxygen binding (H-NOX) domain in complex with cinaciguat **(2020)**

(28) **50448** ^{1}H-^{13}C-^{15}N SARS Unique Domain CoV-2 (nsp3c) N-terminal domain **(2020)**

(29) **50516** ^{1}H-^{13}C-^{15}N SARS Unique Domain CoV-2 (nsp3c) M (middle) domain **(2020)**

(30) **50517** ^{1}H-^{13}C-^{15}N SARS Unique Domain CoV-2 (nsp3c) C-terminal domain **(2020)**

(31) **50969** ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *SARS-CoV* in complex with ADP-ribose **(2021)**

(32) **50970** ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *MERS-CoV* **(2021)**

(33) **50971** ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *MERS -CoV* in complex with ADP-ribose **(2021)**

(34) **50993** ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain from *SARS-CoV* in the free state **(2021)**

(35) **50985** ^{1}H, ^{13}C and ^{15}N Chemical Shift Assignments of the R957C mutant from Arkadia (RNF111) E3 RING domain in solution **(2021)**

(36) **51189** ^{1}H, ^{13}C and ^{15}N Chemical Shift Assignments for Arkadia 2C (RNF165) E3 RING domain **(2021)**

(37) **51398** ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain 2 from PARP14 **2022)**

(38) **51399** ^{1}H, ^{13}C, ^{15}N resonance assignment of macro domain 2 from PARP14 in complex with ADP-ribose **(2022)**

(39) **51470** ^{1}H, ^{13}C, ^{15}N resonance assignment of apo macro domain of Hepatitis E virus **(2022)**

(40) **51471** ^{1}H, ^{13}C, ^{15}N resonance assignment of ADPr bound macro domain of Hepatitis E virus **(2022)**

(41) **51495** Backbone and side chain NMR assignment of the heme-nitric oxide/oxygen binding (H-NOX) domain from Nostoc punctiforme **(2022)**

(42) **51713** Solution NMR assignment of RRM2 Cterminal of human La protein **(2022)**

(43) **52869** ^{1}H, ^{13}C and ^{15}N chemical shift assignments of Rubella virus macro domain in the free state **(2025)**

(44) **52870** ^{1}H, ^{13}C and ^{15}N chemical shift assignments of Rubella virus macro domain in the ADPr bound state **(2025)**

(45) **34984** Solution NMR structure of Arkadia 2 RING domain

Other Publications : (A) Book Chapters

A1. A. Coutsolelos, **G.A. Spyroulias.** ***"Chapter 4:*** *NMR of Organozinc compounds - ^{67}Zn NMR, a tool for coordination chemistry problems."* In **"*The Chemistry of Organic Zinc Compounds"***, Zvi Rappoport (Editor), Ilan Marek (Editor), John Wiley & Sons, Ltd., 2006.

A2. T. Mavromoustakos, S. Golic Grdadolnik, M. Zervou, P. Zoumpoulakis, C. Potamitis, A. Politi, E. Mantzourani, J. A. Platts, C. Koukoulitsa, P. Minakakis, G. Kokotos, T. Tselios, J. Matsoukas, S. Durdagi, M.G. Papadopoulos, D.P. Papahatjis, Z.S. Spyranti, G.A. Dalkas, **G.A. Spyroulias**. ***Chapter 7:*** *Putative Bioactive Conformers of Small Molecules: A Concerted Approach Using NMR Spectroscopy and Computational Chemistry.*

In ***"Medicinal Chemistry Research progress",*** Editors: Giulia P. Colombo and Sofia Ricci, Nova Science Publishers, Inc., **2008**.

A3. G.A. Spyroulias. *Peptide substrate selectivity and Dual Inhibitors of ACE and NEP vasopeptidases*

In ***"Essays on Contemporary Peptide Science***": 75-94 ISBN: 978-81-308-0428-6**.** Editor: Paul Cordopatis, **2011.**

A4. Makrynitsa, Garyfallia I; Lykouras, Michail; Spyroulias, Georgios A; and Matsoukas, Minos-Timotheos (August 2018)**,** *In silico Drug Design*. In: **eLS.** John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0028112

A5. Chasapi, Styliani; Mantzarapi, Konstantina; Karagkouni, Evdokia; Varvarigou, Natassa; Spyroulias Georgios A. *NMR and Metabollomics.* In **eLS** John Wiley & Sons, Ltd: Chichester.

Participation in Congresses and Conferences :

Participation to **>100** Scientific Congresses and Conferences (**60** International and **40** National – Greek) with a total number of >**300** Communications, Abstracts and Short papers