

# **Curriculum Vitae**

**Ioannis Bratsos**

**JANUARY 2017**

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## PERSONAL INFORMATION

*Surname:* **BRATSOS**  
*Name:* **IOANNIS**  
*Father's Name:* EFTHIMIOS  
*Mother's Name:* CHRYSOULA  
*Date of Birth:* 20-09-1975  
*Place of Birth:* PIRAEUS, ATTIKA, GREECE  
*Nationality:* GREEK  
*Marital Status:* Married/ 2 Children  
*Military obligations:* Accomplished (07/05/2008)



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 NCSR "Demokritos"  
 Patr. Gregoriou E' & Neapoleos  
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*ORCID ID:* [orcid.org/0000-0002-9787-5481](http://orcid.org/0000-0002-9787-5481)

## EDUCATION

*July 11<sup>th</sup>, 2005* **National and Kapodistrian University of Athens**  
 School of Science, Faculty of Chemistry  
 Department of Inorganic Chemistry  
Ph.D in Chemistry, Grade: "Honors"

*April 14<sup>th</sup>, 2003* **National and Kapodistrian University of Athens**  
 School of Science, Faculty of Chemistry  
 Department of Inorganic Chemistry  
M.Sc in Chemistry, Grade: "Honors"

*February 10<sup>th</sup>, 2000* **National and Kapodistrian University of Athens**  
 School of Science, Faculty of Chemistry  
B.Sc in Chemistry, Grade: "Good"

*March 30<sup>th</sup>, 2000* **National and Kapodistrian University of Athens**  
 School of Science, Faculty of Chemistry  
Diploma in Enology training

*1993* **21<sup>o</sup> General Lyceum of Athens (Grava)**  
Graduation Certificate, Grade: "Good"

## FELLOWSHIPS

- ◆ Two-month scholarship by the **University of Trieste** (Italy) at the Department of Chemical Sciences under the supervision of Prof. Enzo Alessio. (06/2009)
- ◆ Two-month scholarship by the **University of Trieste** (Italy) to accomplish the project entitled “*New drugs for the treatment of lung cancer: Clinical evaluation of the Ruthenium compound NAMI-A as model for the design of new molecules*” at the Department of Chemical Sciences under the supervision of Prof. Enzo Alessio. (09/2007)
- ◆ Three-month scholarship by the **University of Trieste** (Italy) to perform part of the Ph.D Dissertation. The research took place at the Department of Chemical Sciences, University of Trieste (Italy), under the supervision of Prof. Enzo Alessio. (04/2003)
- ◆ Three-month Greek-Italian bilateral scholarship by the **Greek Ministry of Education and Religious Affairs** in collaboration with the **Italian Ministry of Foreign Affairs** to perform part of the Ph.D Dissertation. The research took place at the Department of Chemical Sciences, University of Trieste (Italy), under the supervision of Prof. Enzo Alessio. (05/2002)
- ◆ Nine-month Scholarship by the European program “**Marie Curie**” on Medicinal Training Project (Mediciner project: HMPT-CT-2000-00192) to perform part of the Ph.D Dissertation. The research took place at the Gorlaeus Laboratorium, Leiden University, The Netherlands, Department of CBDC, under the supervision of Prof. Dr Jan Reedijk. (10/2001)
- ◆ Four-Year Scholarship by the **National Center of Scientific Research “Demokritos”** (Institute of Physical Chemistry) for graduate studies. (10/1999)

## RESEARCH EXPERIENCE

### Professional

- 10/10/2016 –31/12/2016      **N.C.S.R. “Demokritos”, Institute of Advanced Materials, Nuclear & Radiological Sciences & Technology, Energy & Safety (I.N.R.A.S.T.E.S.)**  
 Research Associate  
 Objective: “*Development of nanoporous materials for gas storage and separations*”  
 Scientific Coordinator: Dr. Nick Kanellopoulos  
 The experimental part of the project was performed at the lab of Dr. Dionisios Vourloumis (Chemical Biology, I.N.N.), whereas the sorption studies were carried out at the lab of Dr. Theodore Steriotis (Membranes and Microporous Materials for Environmental Separations, I.N.N.)
- 1/5/2013 –30/6/2016      **N.C.S.R. “Demokritos”, Institute of Advanced Materials, Nuclear & Radiological Sciences & Technology, Energy & Safety (I.N.R.A.S.T.E.S.)**  
 Research Associate  
 Objective: “*Synthesis and characterization of porous materials as sorbents for gaseous pollutants*”  
 Supervisor: Dr. Konstantinos Eleftheriadis  
 The experimental part of the project was performed at the lab of Dr. Dionisios Vourloumis (Chemical Biology, I.N.N.), whereas the sorption studies were carried out at the lab of Dr. Theodore Steriotis (Membranes and Microporous Materials for Environmental Separations, I.N.N.)

1/1/2012 – 30/4/2013 **N.C.S.R. “Demokritos”, Institute of Advanced Materials, Physicochemical Processes, Nanotechnology and Microsystems, Dept of Physical Chemistry**  
 Laboratory of Chemical Biology of Natural Products and Designed Molecules  
 Associate Researcher  
 Objective: "*Synthesis of novel advanced porous metal-organic frameworks (MOFs) for gas storage and separation*"  
 Supervisor: Dr. Dionisios Vourloumis  
 Joint Project with the lab of Dr. Theodore Steriotis (Membranes and Microporous Materials for Environmental Separations, I.N.N.)

1/8/2009 - 31/7/2011 **Università Degli Studi di Trieste, Dipartimento di Scienze Chimiche, Italy**  
 PostDoc Position  
 Project: "*Development of new ruthenium-porphyrin conjugates with antitumor activity*".  
 Supervisor: Prof. Enzo Alessio

5/9/2005 – 4/11/2007 **Università Degli Studi di Trieste, Dipartimento di Scienze Chimiche, Italy**  
 PostDoc Position  
 Project: "*New drugs for the treatment of lung cancer: Clinical evaluation of the Ruthenium compound NAMI-A as model for the design of new molecules*".  
 Supervisor: Prof. Enzo Alessio

### Postgraduate

1/10/2002 – 7/7/2005 **N.C.S.R. “Demokritos”, Institute of Physical Chemistry**  
 Laboratory of Bioinorganic Materials and Biomolecules  
 Research for Ph.D Dissertation  
 Title: "*Synthesis and characterization of Pt(II) and Ru(II) complexes with biologically relevant ligands*"  
 Supervisor: Dr. Nikos Katsaros

1/10 – 31/12/2002 &  
 1/4 – 30/6/2003 **Università Degli Studi di Trieste,**  
**Dipartimento di Scienze Chimiche, Italy**  
 Research for a part of Ph.D Dissertation  
 Title: "*Synthesis, characterization and toxicity of Ru(II)-DMSO complexes with dicarboxylate ligands* "  
 Supervisor: Prof. Enzo Alessio.

1/10/2001 – 30/6/2002 **Gorlaeus Laboratories, Department of CBAC, Leiden University, The Netherlands**  
 Research for a part of Ph.D Dissertation  
 Title: "*Solid phase synthesis of Carboplatin analogs* "  
 Supervisor: Prof. Dr Jan Reedijk.

1/10/1999 – 30/9/2002 **N.C.S.R. “Demokritos”, Institute of Physical Chemistry**  
 Laboratory of Bioinorganic Materials and Biomolecules  
 Research for a part of M.Sc Dissertation  
 Title: "*Spectroscopic study of the Interaction of Pt(II) and Pd(II) with the anticancer drug Bleomycin* "  
 Supervisor: Dr. Nikos Katsaros

### Undergraduate

1998 – 1999 **National and Kapodistrian University of Athens**  
 School of Science, Faculty of Chemistry  
 Department of Inorganic Chemistry and Technology  
 Research for B.Sc Thesis  
 Title: "*Isolation of Metal Ions from Laterite Ores* "  
 Supervisor: Prof. Andreas Tsatsas

**SHORT TERM SCIENTIFIC MISSIONS**

- 12/04 – 01/05/2010      **University of Ljubljana, Faculty of Chemistry and Chemical Technology (Slovenia)**  
Funding: COST Action D39  
Host-Supervisor: Prof. Iztok Turel
- 10/1 – 18/2/2005      **Callerio Foundation Onlus, Trieste (Italy)**  
Funding: European Science Foundation (ESF), COST D20  
Host-Supervisor: Prof. Gianni Sava
- 3 - 16/5/2004      **Università Degli Studi di Trieste,  
Dipartimento di Scienze Chimiche (Italy)**  
Funding: European Science Foundation (ESF), COST D20  
Host-Supervisor: Prof. Enzo Alessio
- 9 – 20/4/2001      **CERM, Polo Scientifico, University of Firenze (Italy)**  
Funding: Large Scale Facilities (LSF) Program  
Host-Supervisor: Prof. Ivano Bertini.

**TEACHING AND SUPERVISORY EXPERIENCE****Tutor of undergraduated and postgraduated students**

- 2009-2011      **Università Degli Studi di Trieste, Dipartimento di Scienze Chimiche (Italy)**
- Tutor of three undergraduate (I. Albini, A. Beltram, G. Ragazzon) and three postgraduate (C. Simonin, E. Mitri, S. Calmo) students for their experimental thesis.
  - Tutor of a visiting PhD student (A. Rilak) from the University of Kragujevac (Serbia) hosted to the lab (Trieste) for one year period.
- 2005-2007      **Università Degli Studi di Trieste, Dipartimento di Scienze Chimiche (Italy)**
- Tutor of three undergraduate students (G. Birarda, N. Kulisic, F. Ravalico) for their experimental thesis.

**Co-advisor**

- Salvatore Simone Calmo (E. Alessio, I. Bratsos), "*Nuovi derivati carbonilici di Rutenio e Osmio*", **2011**, Università Degli Studi di Trieste, Facoltà di Scienze Matematiche, Fisiche e Naturali, Italy. (Tesi di Laurea Specialistica in Chimica; M.Sc. dissertation)
- Alessandro Beltram (E. Alessio, I. Bratsos), "*Sintesi di nuovi complessi di Osmio strutturalmente simili a composti antitumorali di rutenio*", **2011**, Università Degli Studi di Trieste, Facoltà di Scienze Matematiche, Fisiche e Naturali, Italy. (Tesi di Laurea triennale in Chimica, B.Sc. thesis)
- Elisa Mitri (E. Alessio, I. Bratsos), "*Sviluppo di nuovi complessi half-sandwich di Rutenio come potenziali agenti antitumorali*", **2010**, Università Degli Studi di Trieste, Facoltà di Scienze Matematiche, Fisiche e Naturali, Italy. (Tesi di Laurea in Chimica; M.Sc. dissertation)
- Camilla Simonin (E. Alessio, I. Bratsos), "*Studio della reattività di composti antitumorali di Rutenio con geometria half-sandich*", **2009**, Università Degli Studi di Trieste, Dipartimento di Scienze Chimiche, Facoltà di Scienze MM.FF.NN., Italy. (Corso di Laurea Specialistica in Scienze Chimiche, Tesi sperimentale in Chimica; M.Sc. dissertation)
- Irene Albini (T. Gianferrara, T. Da Ros, I. Bratsos), "*Nuovi Coniugati Rutenio(II)-Fullerene con Potenziali Applicazioni in Terapia Fotodinamica*", **2009**, Università Degli Studi di Trieste, Dipartimento di Scienze Farmaceutiche, Facoltà di Farmacia, Italy. (Corso di Laurea Specialistica in Farmacia, Tesi sperimentale in Chimica Farmaceutica, B.Sc. thesis)

- Giovanni Birarda (E. Alessio, E. Zangrando, I. Bratsos), "*Sintesi e caratterizzazione di Nuovi Complessi di Rutenio(II)-dmsO con Leganti Dicarbossilati*", **2006**, Università Degli Studi di Trieste, Dipartimento di Scienze Chimiche, Italy. (Laurea in Chimica; M.Sc. dissertation)

### **Teaching**

2015 -

#### **New York College (Athens, Greece)**

*Bsc (Hons) in Biomedical Sciences (University of Greenwich)*

Vocational training educator

#### Courses

- 2016 - **Practical and Professional Skills** – Year 1
- 2015 - **Chemistry Laboratory Skills** – Foundation (Year 0).
- 2016 - **Biology Laboratory Skills** – Foundation (Year 0).

2008-2009

#### **40<sup>th</sup> High School of Athens (Grava)**

Hourly waged teacher of Chemistry (1<sup>st</sup> and 2<sup>nd</sup> Class)

### **PROFESSIONAL EXPERIENCE**

Summer 1996  
and 1997

#### **ATHENIAN BREWERY S.A.**

Quality Control Department: Chemistry Laboratory

Summer training interships

### **KNOWLEDGE**

*Languages:*

English: Very Good

Italian: Basic

Greek: Native language

*Computers:*

- Skilled in the use of:

- The Internet in search and use of pertinent information.
- Microsoft Office 2010/2013 (Word, Excel, PowerPoint)
- Origin – Statistical analysis programs
- ChemDraw, DS Viewer, HyperChem, WinGX, CCP4, Mercury, ORTEP, MestReNova etc – Chemistry related softwares
- Photoshop, CorelDraw – graphics related softwares

- Holder of **ECDL Progress Certificate** (Microsoft Word, Microsoft Excel, Internet Explorer – Outlook Express)

### **CONTINUOUS EDUCATION**

#### **Summer Schools**

- **XII School on Synchrotron Radiation: Fundamentals, Methods and Applications**  
Italian Society of Synchrotron Radiation (Società Italiana di Luce di Sincrotrone, SILS)  
Grado, ITALY, 16 – 27 September 2013

### **FIELDS OF RESEARCH**

The field of research interest and experience is focused mainly on **Inorganic Chemistry**:

- ◆ Study of the interaction of metal ions with organic molecules and characterization of the formed complexes by means of various spectroscopic methods.

- ◆ Synthesis and characterization of complexes of transition metals, in particular from the group of platinum (Pt(II), Pd(II), Ru(II/III), Os(II)) appropriately designed with specific properties for various applications.
- ◆ Synthesis of coordination compounds with various biologically relevant ligands and characterization of their structure by means of various spectroscopic methods.
- ◆ Design, synthesis and characterization of Pd(II) and Pt(II) based complexes for their use as building units for the construction of metal-organic frameworks (MOF's) or Covalent Organic Framework (COF's).
- ◆ Studies on the kinetics (aquation, anation, reaction with biological relevant molecules) and mechanisms of reaction.

and **Bioinorganic Chemistry:**

- ◆ Synthesis of organic ligands, peptides and metal complexes via solid phase approach.
- ◆ Study of the interaction of metal ions with biological molecules, such as DNA, oligonucleotides, nucleobases etc., by means of various spectroscopic methods.
- ◆ Synthesis of porphyrin-Ru conjugates with potential antitumor activity.
- ◆ Study of the pharmacokinetic properties and cytotoxicity of Platinum (Pt) and Ruthenium (Ru) based complexes.

Current interest also in **Materials:**

- ◆ Synthesis and characterization of novel advanced microporous MOF's and COF's for gas storage and separation.

Good experience also in **Organic Synthesis:**

- ◆ Synthesis of small organic molecules as linkers or ligands for metal complexes.
- ◆ Synthesis of peptides via solid phase synthesis.
- ◆ Separation and purification techniques of organic compounds

## RELEVANT SCIENTIFIC TECHNIQUES AND SKILLS

### Techniques of synthesis:

- Solution-phase and Solid-phase synthesis.
- Synthesis under inert atmosphere (Schlenk techniques).
- Hydrothermal / Solvothermal Synthesis.

### Techniques of Structural Characterization:

- **X-Ray** Crystallography.
  - Large experience in crystallization methods (More than 50 solved structures).
  - Powder X-Ray Diffraction. User of: RIGAKU RU-H3R
  - Single crystal X-Ray Diffraction. User in Synchrotrons: BESSY (Berlin, Germany), Elettra (Trieste, Italy), ALBA (Barcelona, Spain), Diamond (Oxford, UK).
- 1D και 2D Nuclear Magnetic Resonance (**NMR**). User of: Bruker (500 MHz, Avance), Varian (500 MHz, Varian 500) και Jeol (400 MHz, Eclipse 400FT).
- Ultraviolet-Visible Spectroscopy (**UV-Vis**). User of: Jasco (V-500 UV-Vis spectrophotometer), Perkin-Elmer (Lambda 35) και Thermo Spectronic (Helios Alpha).
- Cyclic Dichroism (**CD**) Spectroscopy. User of: Jasco (V-715).



- Infrared (**IR**) Spectroscopy. User of: Perkin-Elmer (2000 NIR FT-Raman, 983G spectrometer and Spectrum 100).
- Electronic Paramagnetic Resonance (**EPR**)
- High Performance Liquid Chromatography (**HPLC**)
- Mass Spectroscopy (**MS**)

## INTERNATIONAL RECOGNITION

### Participation in international scientific commissions - Evaluations

- Reviewer for international journals:
  - Elsevier :               **Coordination Chemistry Reviews**  
**Inorganica Chimica Acta**  
**Inorganic Chemistry Communications**
  - ACS :                       **Organometallics**  
**Inorganic Chemistry**
  - RSC:                       **Dalton Trans.**  
**New Journal of Chemistry**
  - Wiley:                   **International Journal of Chemical Kinetics**
  - Bentham Science: **Mini Reviews in Medicinal Chemistry**
  - Taylor & Francis: **Journal of Coordination Chemistry**
  - MDPI:                   **Molecules**
  - Serbian Chem. Soc.: **Journal of the Serbian Chemical Society.**
- Referee for international funded research projects:  
**Genesis Oncology Trust** (New Zealand).

### Citation Index

- The published articles have been cited:
  - **seven hundred thirty eight (738)** times up to now (or **613** excluded self-citations of all authors). (Source 24/01/2017: Scopus)
  - **eight hundred thirty two (832)** times. (Source 24/01/2017: Google Scholar)
- *h* index = **13** (Source 24/01/2017: Scopus)  
           = **16** (Source 24/01/2017: Google Scholar)

## COLLABORATIONS

### Inorganic Chemistry

- ◆ **Assoc. Prof. Enzo Alessio**, Dipartimento di Scienze Chimiche e Farmaceutiche, Università Degli Studi di Trieste, Italy. ([web](#), e-mail: [alessi@units.it](mailto:alessi@units.it))
- ◆ **Prof. Dr. Iztok Turel**, Chair of Inorganic Chemistry, Faculty of Chemistry and Chemical Technology (FCCT), University of Ljubljana, Slovenia. ([web](#), e-mail: [iztok.turel@fkkt.uni-lj.si](mailto:iztok.turel@fkkt.uni-lj.si))
- ◆ **Prof. Dr. Živadin D. Bugarčić**, Faculty of Science, Department of Chemistry, University of Kragujevac, Serbia ([web](#), e-mail: [bugarcic@kg.ac.rs](mailto:bugarcic@kg.ac.rs))

### Organic Chemistry

- ◆ **Assoc. Prof. Dr. Janez Košmrlj**, Chair of Organic Chemistry, Faculty of Chemistry and Chemical Technology (FCCT), University of Ljubljana, Slovenia. ([web](#), e-mail: [Janez.Kosmrlj@fkkt.uni-lj.si](mailto:Janez.Kosmrlj@fkkt.uni-lj.si))
- ◆ **Dr. Dionisios Vourloumis**, Laboratory of Chemical Biology of Natural Products and Designed Molecules, I.N.N., Dept of Physical Chemistry, N.C.S.R. "Demokritos", Athens, Greece. ([web](#), e-mail: [d.vourloumis@inn.demokritos.gr](mailto:d.vourloumis@inn.demokritos.gr))

Material Sciences

- ◆ **Dr. Theodore Steriotis**, Membranes and Microporous Materials for Environmental Separations, I.N.N., Dept of Physical Chemistry, N.C.S.R. "Demokritos", Athens, Greece. ([web](#), e-mail: [t.steriotis@inn.demokritos.gr](mailto:t.steriotis@inn.demokritos.gr))
- ◆ **Assoc. Prof. Pantelis N. Trikalitis**, Materials Chemistry & Development Group, Department of Chemistry, University of Crete, Heraklion, Greece. ([web](#), e-mail: [ptrikal@chemistry.uoc.gr](mailto:ptrikal@chemistry.uoc.gr))

Crystallography

- ◆ **Prof. Ennio Zangrando**, Dipartimento di Scienze Chimiche e Farmaceutiche, Università Degli Studi di Trieste, Italy. ([web](#), e-mail: [ezangrando@units.it](mailto:ezangrando@units.it))
- ◆ **Dr. Nicola Demitri**, Elettra – Sincrotrone Trieste, Trieste, Italy ([web](#), e-mail: [nicola.demitri@elettra.eu](mailto:nicola.demitri@elettra.eu))

Biology – Pharmaceutical Chemistry

- ◆ **Prof. Gianni Sava**, Department of Life Sciences, Università Degli Studi di Trieste, Italy. ([web](#), e-mail: [gsava@units.it](mailto:gsava@units.it))
- ◆ **Dr. Teresa Gianferrara**, Dipartimento di Scienze Farmaceutiche, Università Degli Studi di Trieste, Italy. ([web](#), e-mail: [gianfer@units.it](mailto:gianfer@units.it))

Supramolecular Chemistry

- ◆ **Assoc. Prof. Elisabetta Iengo**, Dipartimento di Scienze Chimiche e Farmaceutiche, Università Degli Studi di Trieste, Italy. ([web](#), e-mail: [eiengo@units.it](mailto:eiengo@units.it))

Catalysis

- ◆ **Assoc. Prof. Barbara Milani**, Dipartimento di Scienze Chimiche e Farmaceutiche, Università Degli Studi di Trieste, Italy. ([web](#), e-mail: [milaniba@units.it](mailto:milaniba@units.it))

Computational Chemistry - Modeling

- ◆ **Dr. Athanasios Papakiriakou**, Laboratory of Chemical Biology of Natural Products and Designed Molecules, I.N.N., Dept of Physical Chemistry, N.C.S.R. "Demokritos", Athens, Greece. ([web](#), e-mail: [a.papakiriakou@inn.demokritos.gr](mailto:a.papakiriakou@inn.demokritos.gr))

**PARTICIPATION IN INTERNATIONAL RESEARCH PROGRAMS**

- ◆ Program: **Siemens (EE-11928)**  
Title: *«Establishing a Multidisciplinary and Effective Innovation and Entrepreneurship Hub»*  
Coordinator: NCSR "Demokritos"  
Scientific Responsible: Dr. Nick Kanellopoulos
- ◆ Program: **FP7-REGPOT-2012-2013-1 (FP7-Regpot)**  
Title: *«EnTeC – Enhancing the capacity for Environmental Technology and Climate Research»*  
Coordinator: NCSR "Demokritos"  
Scientific Responsible: Dr. Konstantinos Eleftheriadis
- ◆ Program: **INFRA-2011-1.1.16. - Research Infrastructures for Hydrogen & Fuel Cells facilities (FP7-Infrastructures)**  
Title: *«H2FC – Integrating European Infrastructure to support science and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy»*  
Scientific Responsible: Dr. Theodore Steriotis
- ◆ Program: **ENERGY-2007-1.2-04 (FP7-Energy)**  
Title: *«NanoHy – Novel Nanocomposites for Hydrogen Storage Applications».*  
Scientific Responsible: Dr. Georgia Charalampopoulou.

- ◆ Program: **Marie Curie Excellence Grants - MEXT-CT-2006-039149 (FP6-Mobility).**  
Title: «*EXPLORNA – Study of RNA components by the synthesis of small molecules*».  
Scientific Responsible: Dr. Dionisios Vourloumis.
- ◆ Program: **General Secretariat for Research and Technology (G.S.R.T.), Operating Programme “Competitiveness” (Op.Pr.Comp.) 2002 – Measure 4.3.6.1. “Greece – Turkey Bilateral Collaboration”**  
Title: «*Synthesis of new transition metal based compounds with tetrapyrrole as antitumor agents*»  
Scientific Responsible: Dr. Nikos Katsaros
- ◆ Program: **G.S.R.T., Op.Pr.Comp. 2001 – Measure 4.3.6.1. “Greece – Yugoslavia Bilateral Collaboration”**  
Title: «*Synthesis and characterization of dinuclear complexes of copper(II) and cobalt(II) with mixed ligands: studies on their application as antibacterial and anticancer drugs*»  
Scientific Responsible: Dr. Nikos Katsaros

## CONFERENCES

### Oral Presentations (7)

- ◆ I. Bratsos, I. Spanopoulos, G. Ch. Charalambopoulou, D. Vourloumis, T. A. Steriotis and P. N. Trikalitis  
“New Zr(IV) based metal-organic frameworks functionalized with lewis base sites: synthesis, characterization and gas-sorption properties”  
**6<sup>th</sup> Panhellenic Symposium on Porous Materials**  
Kavala, GREECE, 9-10 September 2013.
- ◆ I. Bratsos, E. Mitri, C. Simonin, E. Zangrado, E. Alessio  
“Development of new half-sandwich type Ru coordination compounds as potential antitumor agents”  
**Regional Seminar**  
I Giovani e la Chimica in Friuli Venezia Giulia  
Udine, ITALY, 24 May, 2010
- ◆ I. Bratsos, E. Mitri, C. Simonin, E. Zangrado, E. Alessio  
“Development of new half-sandwich Ru coordination compounds as potential antitumor agents”  
**10<sup>th</sup> European Biological Inorganic Chemistry Conference (Eurobic 10)**  
Thessaloniki, GREECE, 22-26 June, 2010
- ◆ I. Bratsos, T. Gianferrara, E. Iengo, B. Milani, A. Oštrić, C. Spagnul, E. Zangrado, E. Alessio  
“Synthetic strategies towards ruthenium-porphyrin conjugates for anticancer activity”  
**COST D39 workshop**  
Debrecen, HUNGARY, 24-25 September, 2009
- ◆ I. Bratsos  
“Chemical features of Ruthenium(II)-DMSO-Dicarboxylato compounds as potential antitumor agents”  
**COST D39 Meeting**  
Leiden, THE NETHERLANDS, 24 - 27 September 2007
- ◆ I. Bratsos, B. Serli, E. Zangrado, E. Alessio  
“Ruthenium-dmso-dicarboxylato complexes: Towards carboNAMI-A”  
**COST D20 Meeting**  
Brno, CZECH REPUBLIC, 15 - 18 June 2006
- ◆ I. Bratsos, B. Serli, E. Zangrado, E. Alessio  
“Novel ruthenium-DMSO complexes with dicarboxylate ligands as potential antitumor drugs”  
**Regional Seminar**  
I Giovani e la Chimica in Friuli Venezia Giulia  
Trieste, ITALY, 5 - 6 May 2006

**Posters (14)**

- ◆ I. Bratsos, C. Tampaxis, I. Spanopoulos, N. Demetri, D. Vourloumis, G. Charalambopoulou, P. N. Trikalitis, T. A. Steriotis  
“Synthesis and characterization of a novel heterobimetallic In(II)-Pd(II) Metal-Organic Framework”  
**7<sup>th</sup> Panhellenic Symposium on Porous Materials**  
Ioannina, GREECE, 02-04 June, 2016
- ◆ I. Bratsos, E. Mitri, C. Simonin, E. Zangrado, E. Alessio  
“Development of new half-sandwich type Ru coordination compounds as potential antitumor agents”  
**XXXVIII Congresso Nazionale della Divisione di Chimica Inorganica della Società Chimica Italiana**  
Trieste, ITALY, 13-16 September, 2010
- ◆ I. Bratsos, T. Gianferrara, E. Alessio  
“A rational categorization of metal anticancer compounds based on their mode of action”  
**10<sup>th</sup> International Symposium on Applied Bioinorganic Chemistry (ISABC 10)**  
Debrecen, HUNGARY, 25-28 September, 2009
- ◆ I. Bratsos, M. Casanova, E. Iengo, F. Scandola, M. T. Indelli, E. Alessio  
“Pyridylporphyrins peripherally substituted with luminescent *fac*-[Re(CO)<sub>3</sub>(bipy)]<sup>+</sup> fragments: structural and photophysical investigations”  
**COST D31**  
Organizing Non-Covalent Chemical Systems with Selected Functions  
Athens, GREECE, 28 - 31 March 2007
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## DISSERTATIONS

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**1. Italian Patent,**Deposit Number: **MI2005A001817**

Inventors: Enzo ALESSIO, Ennio ZANGRANDO, Barbara SERLI, Ioannis BRATSOS, Gianni SAVA, Alberta BERGAMO.

Title: "***Complessi dicarbossilati di rutenio (II) e loro impiego come antitumorali***"