

# ANDREA MASOTTI

**PLACE AND DATE OF BIRTH** Firenze  
17/10/1972

**ADDRESS** Via Filippo Cordova, 42, Int.6, 00139 ROMA

**E-Mail** [andrea\\_maso@yahoo.it](mailto:andrea_maso@yahoo.it)

**CONTACTS** MOBILE TEL: +39 347 0181867; +39 334 5093862  
FAX: +39 06 233 234 321

---

## ***PRESENT OCCUPATION***

*From January 2006*

*Bambino Gesù Children's Hospital*

***Post-Doctoral Fellow*** (*Cicle: years 2006-2009*) and (*Cycle: years 2009-2011*) in the Gene Expression and Microarrays Laboratory of Bambino Gesù Children's Hospital under the supervision of Prof. G.F.Bottazzo.

***Main activity:*** coordination of the research group involved in several projects (almost 10) about gene expression and microRNA profiling. Other activities: mRNA and microRNA data analysis from different commercial (Applied Biosystems, Affymetrix, Agilent) and custom microarray platforms. Several bioinformatic tools and software are currently used in daily practice.

*From November 2003 to October 2005 Bambino Gesù Children's Hospital*

- Post-Doctoral Fellowship entitled "*Identification of "prediabetic" pancreas: implications on pancreas transplantation and in the etiopathogenesis of type-I diabetes*" and later "*Study of the etiopathogenesis of thyroid autoimmunity with thyroidal molecular repertoires: identification of novel autoantigens and/or antigens related to possible etiological factors*" (Scientific Directorate and Gene Expression and Microarrays Laboratory).

*From 2009 to 2010 - Children's Hospital Bambino Gesù*

- Principal Investigator of the project ***Ricerca Corrente "Genetic approaches to investigate Inorganic Arsenic metabolism in a pediatric population"***

*From 2008 to 2009 - Children's Hospital Bambino Gesù*

- Principal Investigator of the project ***Ricerca Corrente "CGH-SNPs Arrays"***

*From 2005 to 2008 - Children's Hospital Bambino Gesù*

- Principal Investigator of the project ***Ricerca Corrente "Progetto miRNA"***

*From July 2002 to October 2003 University of Rome "La Sapienza"*

- Collaboration at the Chemistry Department for the projects **"MULTIFOCAL COMBINED APPROACHES FOR GENE THERAPY OF MALIGNANT GLIOMAS"** and **"NOVEL CONTRAST AGENTS FOR MAGNETIC RESONANCE IMAGING (MRI) AND TISSUTAL TARGETING: CEREBRAL DAMAGES IN ANIMAL MODELS"**.

## ***PERSONAL EXPERIENCE***

*From May 2001 to June 2002 Advanced Biotechnology Center (CBA)*

- National Project Research concerning Oncology (PNR N°4: "Methodologies to analyze molecular alterations of genes involved in neoplasies") entitled **"MICROCHIPS TO REVEAL GENETIC ALTERATIONS IN HUMAN TUMOURS"** attended at the Immunogenetic Laboratory (Prof. GB Ferrara) – Advanced Biotechnology Center (CBA) - Genova.

*From January 2001 to May 2001*

- Consultant for the company "Prisma" - Florence for a job concerning the environment and waste management.

## ***EDUCATION***

*February 2007 University of Rome “La Sapienza”*

- **II Level Master in Bioinformatics** (Prof. A. Tramontano)

*From 1997 to 2000 University of Study of Florence*

- (20 December 2000) Ph.D fellowship – Department of Inorganic Chemistry “**HOST-GUEST SYSTEMS IN MOLECULAR RECOGNITION**”

*From 1997 to 1998 University of Study of Florence*

- Research project concerning “**NATURAL PHYTOESTROGENS IN BIOLOGICAL FLUIDS QUANTITATIVELY DETERMINED BY SPE AND HPLC TECHNIQUES**”

– Department of Medicine and Immunoallergology – Faculty of Medicine and Pharmacy.

*From 1991 to 1997 University of Study of Florence*

- (18 April 1997) Degree in Chemistry. Title: “**THE 2,2’-BIPYRIDIL UNIT IN THE SYNTHESIS OF NEW POLYAMINE MACROCYCLIC LIGANDS. A STUDY OF THEIR COORDINATION PROPERTIES TOWARDS CD(II) AND PB(II) CATIONS**”

## ***INSTITUTIONAL LESSONS AND OTHER ACTIVITIES***

Year 2002/2003 - University of Study “La Sapienza” - Rome:

- Complements in Industrial Organic Chemistry (I year students) – School of Biotechnology.

- Biotechnology in Pharmaceutic Companies (III years students) – School of Biotechnology.

Supervisor (Faculty of Chemistry and Pharmaceutical Technology) for the following thesis:

1) “Synthesis, characterization, physicochemical and biological properties of acyl and alkyl derivatives of polyethylenimine”.

2) “Miristyl-bromide and miristoyl-chloride for derivatisation of polyethylenimine. Synthesis, chemical and biological properties of selected derivatives”.

- 3) “Polyethylenimine short-chain hydrophobic derivatives. Synthesis and study of chemical properties and application to biomedicine”.
- 4) “Superparamagnetic iron oxide nanoparticles coated by carboxylated polyethylenimine. Synthesis and study of their physicochemical properties”.
- 5) “Synthesis and characterisation of novel polyamidoamine dendrimers with a poliamine core”
- 6) “Synthesis and characterization of novel Gd(III)-containing contrast agents in nuclear magnetic resonance applications”.

Supervisor (Chemistry Department) for the thesis:

“Synthesis and evaluation of biological activity of novel histone deacetylase (HDAC) inhibitors.”

## ***MEMBERSHIP***

- Member of SCI - Società Chimica Italiana – Italian Chemistry Society (Inorganic and Photochemical Chemistry Divisions)
- Member of ACS - American Chemical Society (Inorganic, Organic and Medicinal Chemistry Divisions)

## ***PAPERS***

- 1) Alisi A, Da Sacco L, Bruscalupi G, Piemonte F, Panera N, De Vito R, Leoni S, Bottazzo GF, Nobili V and Masotti A. *Mirnome analysis reveals novel molecular determinants in the pathogenesis of diet-induced nonalcoholic fatty liver disease*. Lab Invest. (2011); 91(2):283-93.
- 2) Andrea Masotti, Letizia Da Sacco, Gian Franco Bottazzo and Anna Alisi. *Microarray Technology: a Promising Tool in the Field of Nutrigenomics Discoveries*, Crit Rev Food Sci Nutr. (2010); 50(7):693-8.
- 3) Letizia Da Sacco and Andrea Masotti, *Chitin and Chitosan as Multipurpose Natural Polymers for Groundwater Arsenic Removal and As<sub>2</sub>O<sub>3</sub> Delivery in Tumor Therapy*, Mar. Drugs (2010), 8(5), 1518-1525.

- 4) A. Masotti, P. Vicennati, A. Alisi, C. Marianecchi, F. Rinaldi, M. Carafa, G. Ortaggi, *Novel Tween®20 derivatives enable the formation of efficient pH-sensitive drug delivery vehicles for human hepatoblastoma*, Bioorg Med Chem Lett, (2010); 20(10), 3021-5.
- 5) N. Panera, A. Alisi, A. Masotti, L. Da Sacco, M. Pezzullo, R. Devito, G. Bruscalupi, S. Leoni, M. Manco, V. Nobili, *Inflammatory molecules involved in non-alcoholic steatohepatitis in rats fed different diets*, Dig Liver Dis, (2010), 42(S1), S47-S48.
- 6) Masotti A., *Multifunctional nanoparticles: preparation and applications in biomedicine and in non-invasive bioimaging*. Recent Pat Nanotechnol. 2010 Jan;4(1):53-62.
- 7) A. Masotti, A. Giuliano, G. Ortaggi, *Efficient Complexation-Ultrafiltration Process for Metal Ions Removal from Aqueous Solutions Using a Novel Carboxylated Polyethylenimine Derivative (PEI-COOH)*, Curr. Anal. Chem. (2010), 6(1), 37-42.
- 8) Del Cornò M, Michienzi A, Masotti A, Da Sacco L, Bottazzo GF, Belardelli F, Gessani S. *CC chemokine ligand 2 down-modulation by selected Toll-like receptor agonist combinations contributes to T helper 1 polarization in human dendritic cells*. Blood. 2009 Jul 23;114(4):796-806.
- 9) Barbato C, Arisi I, Frizzo ME, Brandi R, Da Sacco L, Masotti A. *Computational challenges in miRNA target predictions: to be or not to be a true target?* J Biomed Biotechnol. 2009;2009:803069.
- 10) A. Alisi, A. Masotti, L. Da Sacco, F. Piemonte, R. Devito, A. Alterio, G. Bruscalupi, S. Leoni, G.F. Bottazzo, V. Nobili, *MicroRNA expression profiles in liver tissues from rat fed high fat/high carbohydrate diet may help to elucidate molecular pathogenesis of non-alcoholic fatty liver disease*. Journal of Hepatology, 2009, 50, S254-S255.
- 11) Anna Alisi, Andrea Masotti and Valerio Nobili. *Profiling MicroRNA Expression: a Snapshot of Nonalcoholic Steatohepatitis and a Recording of its Pathogenesis*, Hepatology. 2009 Feb;49(2):706-7.

- 12) Masotti A, Caputo V, Da Sacco L, Pizzuti A, Dallapiccola B, Bottazzo GF. *Quantification of small non-coding RNAs allows an accurate comparison of miRNA expression profiles*. J Biomed Biotechnol. **2009**;2009:659028.
- 13) E.Sturchio, C. Minoia, M. Zanellato, A. Masotti, E. Leoni, C. Sottani, G. Biamonti, A. Ronchi, L. Casorri, S. Signorini, M. Imbriani. *Endocrine disruptors -- Monograph. 3. Arsenic*. G Ital Med Lav Ergon. **2009** Jan-Mar;31(1):5-32.
- 14) Masotti A, Da Sacco L, Bottazzo GF, Sturchio E. *Risk assessment of inorganic arsenic pollution on human health*. Environ Pollut. **2009** Jun;157(6):1771-2.
- 15) Masotti A, Ortaggi G. *Chitosan micro- and nanospheres: fabrication and applications for drug and DNA delivery*. Mini Rev Med Chem. **2009** Apr;9(4):463-9.
- 16) Pampaloni F, Stelzer EH, Masotti A. *Three-dimensional tissue models for drug discovery and toxicology*. Recent Pat Biotechnol. **2009**;3(2):103-17.
- 17) A.Masotti, G.Mossa, C.Cametti, G.Ortaggi, A.Bianco, N.Del Grosso, D.Malizia, C.Esposito, *Comparison of different commercially available cationic liposome-DNA lipoplexes: parameters influencing toxicity and transfection efficiency*, Colloids and Surfaces B: Biointerfaces, (2009), 68(2):136-44.
- 18) P.Vicennati, G.Ortaggi and A.Masotti, *Polyethylenimine in medicinal chemistry*, Current Medicinal Chemistry, **2008**, 15(27), 2826-2839.
- 19) A. Masotti, F. Bordi, G. Ortaggi, F. Marino and C. Palocci, *A novel method to obtain chitosan/DNA nanospheres and a study of their release properties*, Nanotechnology (2008), 19 055302, doi: 10.1088/0957-4484/19/05/055302
- 20) Masotti A, Pitta A, Ortaggi G, Corti M, Innocenti C, Lascialfari A, Marinone M, Marzola P, Daducci A, Sbarbati A, Micotti E, Orsini F, Poletti G, Sangregorio C. *Synthesis and characterization of polyethylenimine-based iron oxide composites as novel contrast agents for MRI*. MAGMA. **2009**; 22(2):77-87.

- 21) M. Corti, A. Lascialfari, M. Marinone, A. Masotti, E. Micotti, F. Orsini, G. Ortaggi, G. Poletti, C. Innocenti, C. Sangregorio, *Magnetic and relaxometric properties of polyethylenimine-coated superparamagnetic MRI contrast agents*, Journal of Magnetism and Magnetic Materials 320 (2008) e316–e319
- 22) Masotti A, Ortaggi G. *Peptide nucleic acid-polyethylenimine conjugates promising multifunctional therapeutic tools for the future*. Oligonucleotides. 2008;18(3):301-3.
- 23) Masotti A, Vicennati P, Boschi F, Calderan L, Sbarbati A, Ortaggi G. *A novel near-infrared indocyanine dye-polyethylenimine conjugate allows DNA delivery imaging in vivo*. Bioconjug Chem. 2008;19(5):983-7.
- 24) Masotti A, Moretti F, Mancini F, Russo G, Di Lauro N, Checchia P, Marianecchi C, Carafa M, Santucci E, Ortaggi G. *Physicochemical and biological study of selected hydrophobic polyethylenimine-based polycationic liposomes and their complexes with DNA*. Bioorg Med Chem. 2007;15(3):1504-15.
- 25) A. Masotti, L. Remollino, M. Carafa, C. Marianecchi, E. Santucci, G. Ortaggi, *Synthesis of a Novel Lipophilic Gadolinium Complex as a Potential MRI Contrast Agent*, Synlett, 2006, 2815-2817.
- 26) Esposito C, Generosi J, Mossa G, Masotti A, Castellano AC. *The analysis of serum effects on structure, size and toxicity of DDAB-DOPE and DC-Chol-DOPE lipoplexes contributes to explain their different transfection efficiency* Colloids Surf B Biointerfaces. 2006 ;53(2):187-92.
- 27) Masotti A, Mangiola A, Sabatino G, Maira G, Denaro L, Conti F, Ortaggi G, Capuani G. *Intracerebral diffusion of paramagnetic cationic liposomes containing Gd(DTPA)<sup>2-</sup> followed by MRI spectroscopy: assessment of pattern diffusion and time steadiness of a non-viral vector model*. Int J Immunopathol Pharmacol. 2006;19(2):379-90.
- 28) Niola F, Evangelisti C, Campagnolo L, Massalini S, Buè MC, Mangiola A, Masotti A, Maira G, Farace MG, Ciafrè SA. *A plasmid-encoded VEGF siRNA reduces glioblastoma angiogenesis and its combination with interleukin-4 blocks tumor growth in a xenograft mouse model*. Cancer Biol Ther. 2006;5(2):174-9.

- 29) Andrea Masotti, Viviana Caputo, Sabrina Prudente e Gian Franco Bottazzo, *Analysis of small RNAs with the Agilent 2100 Bioanalyzer*, Agilent Application Note, (2006), Publication Number 5989-5215EN.
- 30) Andrea Masotti and Tobias Preckel, *Analysis of small RNAs with the Agilent 2100 Bioanalyzer*, Nat. Methods, (2006), 2006, doi:10.1038/nmeth908
- 31) Esposito, Claudio; Masotti, Andrea; Del Grosso, Nicoletta; Malizia, Daniela; Bianco, Armandodoriano; Bonadies, Francesco; Napolitano, Raffaella; Ortaggi, Giancarlo; Mossa, Giuseppe. *Novel pH-Dependent Cationic Liposomes as Transfecting Agents for Glioma Cells*. Comptes Rendus Chimie, (2003), 6(5-6), 617-622.
- 32) Lodeiro, Carlos; Pina, Fernando; Parola, A. Jorge; Bencini, Andrea; Bianchi, Antonio; Bazzicalupi, Carla; Ciattini, Samuele; Giorgi, Claudia; Masotti, Andrea; Valtancoli, Barbara; de Melo, J. Seixas. *Exploring the photocatalytic properties and the long-lifetime chemosensor ability of  $Cl_2[Ru(Bpy)_2L]$  (L = 2,5,8,11,14-Pentaaza[15]-2,2'-bipyridilophane)* Inorg. Chem. **2001**; 40(26); 6813-9.
- 33) Bazzicalupi, Carla; Bencini, Andrea; Berni, Emanuela; Bianchi, Antonio; Fornasari, Patrizia; Giorgi, Claudia; Masotti, Andrea; Paoletti, Piero; Valtancoli, Barbara. *Cleft-like hexamine ligands containing large heteroaromatic moieties as receptors for both anions and metal cations*. J. Phys. Org. Chem. (2001), 14(7), 432-443.
- 34) Lodeiro, Carlos; Parola, A. Jorge; Pina, Fernando; Bazzicalupi, Carla; Bencini, Andrea; Bianchi, Antonio; Giorgi, Claudia; Masotti, Andrea; Valtancoli, Barbara. *Protonation and Zn(II) Coordination by Dipyridine-Containing Macrocycles with Different Molecular Architecture. A Case of pH-Controlled Metal Jumping Outside-Inside the Macrocyclic Cavity*, Inorg. Chem.; **2001**; 40(13); 2968-2975.
- 35) Bencini, Andrea; Bianchi, Antonio; Masotti, Andrea; Valtancoli, Barbara; Lodeiro, Carlos; Parola, A. Jorge; Pina, Fernando; de Melo, J. Seixas. *A novel Fluorescent Chemosensor Exhibiting Exciplex Emission. An Example of an Elementary Molecular Machine Driven by pH*. J. Chem. Soc., Chem. Comm. **2000**, 1639-1640.



36) Bazzicalupi, Carla; Bencini, Andrea; Ciattini, Samuele; Giorgi, Claudia; Masotti, Andrea; Paoletti, Piero; Valtancoli, Barbara; Navon, Nadav; Meyerstein, Dan. *Cu(II) and Cu(I) Coordination by Hexamine Ligands of Different Rigidity. A Thermodynamic, Structural and Electrochemical Investigation*. J. Chem. Soc., Dalton Trans. **2000**, 2383-2391

37) Bencini, Andrea; Bianchi, Antonio; Giorgi, Claudia; Fusi, Vieri; Masotti, Andrea; Paoletti, Piero. *Synthesis of Polyamine Macrocycles and Cryptands Incorporating Bipyridyle and Phenanthroline Moieties* J.Org.Chem,**2000**, 65, 7686-7689.

38) Bazzicalupi, Carla; Bencini, Andrea; Bianchi, Antonio; Giorgi, Claudia; Masotti, Andrea; Valtancoli, Barbara; Fusi, Vieri; Roque, Ana; Pina, Fernando. *pH Modulation of the Luminescence Emission of a New Europium Cryptate Complex*. J. Chem. Soc., Chem. Comm. **2000**, 561-562.

39) Bazzicalupi, Carla; Beconcini, Alessia; Bencini, Andrea; Fusi, Vieri; Giorgi, Claudia; Masotti, Andrea; Valtancoli, Barbara. *Phenanthroline-containing Macrocycles as Multifunctional Receptors for Nucleotide Anions. A Thermodynamic and NMR Study*. J. Chem. Soc., Perkin Trans. 2, **1999**, 1675-1682.

## **PATENTS**

- PCT patent entitled "*METHOD FOR CULTURING AND DETACHING CELLS ADHERING TO SURFACES*", WO2007083344.

- Italian patent entitled "Metodo per la coltura di cellule". RM2006A000020.

## **BOOK CHAPTERS**

1) **Fluorescence and Scanning Electron Microscopy of Chitosan/DNA Nanoparticles for Biological Applications**, A. Masotti, F. Marino, G. Ortaggi and Cleofe Palocci, Modern Research and Educational Topics in Microscopy, A. Méndez-Vilas and J. Díaz (Eds.), p.690-696, © FORMATEX 2007

2) **Multifunctional delivery vehicles for biomedical applications. Polyethylenimine as a multipurpose polymer.** A. Masotti, P. Vicennati and G. Ortaggi. Medicinal Chemistry Research Progress, Nova Science Publishers 2008.

3) **Polyethylenimine In Medicinal Chemistry.** P.Vicennati, A.Masotti and G.Ortaggi. Medicinal Chemistry Research Progress, Nova Science Publishers 2008.

4) **Chitosan Micro- and Nanospheres: fabrication and applications for drug and DNA delivery.** A.Masotti and G.Ortaggi, pp. 59-69 in Nanotechnology Research Progress (2009).

5) **“Biomimetic and Bioinspired Self-assembled Peptide Nanostructures”**, Authors: F.Pampaloni and A.Masotti, in (Kumar Ed.) Biomimetic and Bioinspired Nanomaterials (NmLS Vol.7), Wiley-VCH Verlag GmbH & Co. KgaA (2010).

6) **“Polyethylenimine Bioconjugates for Imaging and DNA Delivery *in vivo*”** in Bioconjugation Protocols, 2nd Ed. Series: Methods in Molecular Biology. Authors: A.Masotti and F.Pampaloni. (2010, in press), Springer – Humana Press.

7) **“Quantification of small non-coding RNAs may allow accurate comparisons of miRNA expression profiles from plant specimens”** in Non coding RNAs in Plants, Authors: L.Da Sacco, A.Palma, B.Chi-Hang Lam, Y.Haj-Ahmad, N.Rghei and A.Masotti, Springer (2010, in press)

8) **“Multifunctional nanospheres and applications to cardiology”**, in Nanomedicine and the Cardiovascular System, Author: A.Masotti, CRC Press, (2011 in press).

### ***Investigator Citation Profile***

To date, the H-index is 12 and the sum of the Times Cited (33 papers) is 362.

(See also <http://www.researcherid.com/rid/D-5306-2009>).

### ***Early Achievement-Track-Record***

- **Editor-Selected Papers in Imaging.** ACS- Bioconjugate Chemistry. 2008, Thematic Compilations (IMAGING) for the publication: **A Novel Near-Infrared Indocyanine Dye–Polyethylenimine Conjugate Allows DNA Delivery Imaging in Vivo.** Masotti, A.; Vicennati, P.; Boschi, F.; Calderan, L.; Sbarbati, A.; Ortaggi, G. *Bioconjugate Chem.*; (Communication); 2008; 19(5); 983-987. DOI: 10.1021/bc700356f

### ***Invited Speaker and Achievements***

- **Invited Speaker** at the Workshop “**MicroRNAs and their targets**”, 2 November 2010, Charles Darwin House, London, UK with a talk entitled “MicroRNAs delivery with novel synthetic vectors and site accessibility in target recognition”
- **Invited Speaker** at the Workshop "NANOTECH-Lazio" (22 April 2009), Chemistry Department, SAPIENZA University of Rome with a talk entitled "**Nanospheres and Nanoparticles for DNA Delivery and Magnetic Resonance Imaging**".
- **Editor-Selected Papers in Imaging.** ACS- Bioconjugate Chemistry. 2008, Thematic Compilations (IMAGING) for the publication: **A Novel Near-Infrared Indocyanine Dye–Polyethylenimine Conjugate Allows DNA Delivery Imaging in Vivo.** Masotti, A.; Vicennati, P.; Boschi, F.; Calderan, L.; Sbarbati, A.; Ortaggi, G. *Bioconjugate Chem.*; (Communication); 2008; 19(5); 983-987. DOI: 10.1021/bc700356f

### ***Other Duties***

- **Associate Editor** for the Journal “BMC Neuroscience”
- **Editorial Member** of the journal “Journal of Computational Biology and Bioinformatics Research – JCBBR (<http://www.acadjourn.org/JCBBR/Email.htm>).

### ***Reviewer of the following International Journals***

- **Annals of Biomedical Engineering** (Springer)
- **Analytical Chemistry** (ACS - American Chemical Society)
- **Biomaterials** (Elsevier)
- **Bioorganic & Medicinal Chemistry** (Elsevier)

- **BMC Neuroscience** (Biomed Central)
- **Chemical Communication** (RSC - Royal Society of Chemistry)
- **Colloids and Surfaces. B, Biointerfaces** (Elsevier)
- **Comparative and Functional Genomics** (Hindawi)
- **Current Drug Delivery** (Bentham Science Publishers)
- **Drug Delivery** (Informa Healthcare)
- **Drug News and Perspectives** (Thomson Reuters)
- **Ecotoxicology and Environmental Safety** (Elsevier)
- **Environmental Monitoring and Assessment** (Springer)
- **Food Analytical Methods** (Springer)
- **Gene Therapy** (Nature Publishing Group)
- **Journal of Microencapsulation** (Informa Healthcare)
- **Journal of Nucleic Acids** (Hindawi)
- **Journal of the American College of Nutrition** (American College of Nutrition)
- **Journal of Plant Breeding and Crop Science** (Academic Journals)
- **Letters in Drug Design & Discovery** (Bentham Science Publishers)
- **Molecular BioSystems** (RSC - Royal Society of Chemistry)
- **Nanomedicine** (Future Medicine)
- **Nanoscale** (RSC - Royal Society of Chemistry)
- **Nucleic Acid Research** (Oxford Journals)
- **PLoS Computational Biology** (Public Library of Science)
- **PLoS One** (Public Library of Science)
- **Proteomics** (Wiley-VCH)
- **Tetrahedron Letters** (Elsevier)
- **The Journal of Gene Medicine** (Wiley InterScience)

***and of the project proposals coming from the following Organizations***

- University of Padua (Italy)
- International Multi-Conference on Engineering and Technological Innovation: IMETI (Orlando, Florida, USA)

- International Symposium on Optical Engineering and Photonic Technology: OEPT (Orlando, Florida, USA)
- World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI (Orlando, Florida, USA)
- The Alzheimer's Association (225 N. Michigan Ave., Fl. 17 Chicago, IL 60601-7633)
- NSERC / CRSNG (Natural Sciences and Engineering Research Council of Canada) - Collaborative Health Research Projects.