

## Andrea Catte - Curriculum vitae

### Personal

Full name: Andrea Catte

### Professional experience

- 12/2019 - present** Senior Post Doctoral Research Associate, Faculty of Mathematical and Natural Sciences, SMART Lab, Scuola Normale Superiore, Pisa, Italy, EU. Advisor: Prof. Vincenzo Barone.
- 7/2017 - 7/2019** Senior Post Doctoral Research Associate, Faculty of Mathematical and Natural Sciences, Scuola Normale Superiore, Pisa, Italy, EU. Advisor: Prof. Giuseppe Brancato.
- 1/2014 - 6/2017** Senior Post Doctoral Research Associate, School of Chemistry, University of East Anglia, Norwich Research Park, UK, EU. Advisor: Dr. Vasily S. Oganessian.
- 9/2014 - 6/2017** Tutor activity for master and PhD students supervised by Dr. Vasily S. Oganessian at the School of Chemistry, University of East Anglia, Norwich Research Park, UK, EU.
- 9/2010 - 7/2013** Research Associate, Atherosclerosis Research Unit, Department of Medicine, Division of Gerontology and Geriatric Medicine, University of Alabama at Birmingham, USA. Advisor: Prof. Dr. Jere P. Segrest.
- 1/2009 - 8/2010** Post Doctoral Research Scholar, Atherosclerosis Research Unit, Department of Medicine, Division of Gerontology, Geriatric and Palliative Care Medicine, University of Alabama at Birmingham, USA. Advisor: Prof. Dr. Jere P. Segrest.
- 9/2009 - 11/2009** Tutor activity of Computational Chemistry for a rotation student supervised by Prof. Dr. Jere P. Segrest, Atherosclerosis Research Unit, Department of Medicine, Division of Gerontology and Geriatric Medicine, University of Alabama at Birmingham, USA.
- 1/2007 - 12/2008** Post Doctoral Research Scholar, Biological Physics and Soft Matter Group, Department of Physics, Tampere University of Technology, Finland, EU. Advisors: Prof. Ilpo Vattulainen and Prof. Mikko Karttunen.
- 6/2006** Career Enhancement Award Fall 2005-2006 Internship, Molecular Dynamics Group of the University of Groningen, The Netherlands, EU. Advisor: Prof. Siewert Jan Marrink.
- 2/2006 - 11/2006** Research Associate, Atherosclerosis Research Unit, Department of Medicine, Division of Gerontology and Geriatric Medicine, University of Alabama at Birmingham, USA. Advisor: Prof. Dr. Jere P. Segrest.
- 5/2004 - 1/2006** Post Doctoral Research Scholar, Atherosclerosis Research Unit of the Department of Medicine Division of Gerontology and Geriatric Medicine, University of Alabama at Birmingham, USA. Advisor: Prof. Dr. Jere P. Segrest.
- 5/2000 and 5/2001** Tutor activity at Salone dello Studente 2000 and 2001 for the Degree Course in Chemistry of the Science Faculty of the University of Cagliari, Italy, EU (112 hours).
- 2/2001 - 4/2001** Tutor activity of Organic Chemistry, course held by Prof. Stefana Melis and by Prof. Guido Alberti of the Degree Course in Biology of the Science Faculty of the University of Cagliari, Italy, EU (48 hours).

### Education

- 1/2017 - 4/2017** Participation in the University of East Anglia (UEA) i-Teams Programme 2017 sponsored by UEA and Norwich Research Park.
- 1/2016** Recognition as Associate Fellow of the Higher Education Academy against the UK Professional Standards Framework.
- 9/2014 - 3/2015** Course on Developing Teaching Skills for Postgraduate Students attended and completed at the Centre for Staff & Educational Development of the University of East Anglia.
- 9/2007 - 12/2007** Finnish Course for Beginners 1 (78 hours) at the Tampere University of Technology, Finland, EU.

- 12/2003** Research Doctorate in Chemistry exam in 12/19/2003 at University of Cagliari (Italy, EU) with a thesis entitled: Multinuclear NMR Study of the Interaction of Na-DNA Liquid Crystalline Phases with Intercalators and Divalent Metal Ions. Supervisor: Prof. Adolfo Lai
- 7/2002 - 7/2003** Research activity in the CBAC Group at the Leiden University (Leiden Institute of Chemistry, Gorlaeus Laboratories, The Netherlands, EU) under the supervision of Prof. Jan Reedijk, as Ph. D. student with a one year Marie Curie Fellowship Grant.
- 3/2003 - 5/2003** English Course Level 2 (40 hours) at the University of Leiden, The Netherlands, EU.
- 10/2002 - 12/2002** Dutch Course for Beginners (37.5 hours) at the "Volksuniversiteit" of Leiden, The Netherlands, EU.
- 2001 - 2003** English Courses Levels Pre-Intermediate II and Intermediate I (56 hours each) at the University of Cagliari, Italy, EU.
- 10/2000 - 10/2003** Research activity in the NMR Group at the University of Cagliari (Department of Chemistry, Italy, EU) under the supervision of Prof. Adolfo Lai, as Ph. D. student of the 16<sup>th</sup> Cycle of the Research Doctorate in Chemistry.
- 9/2000** Professional qualifying examination. Grade: 90/100.
- 9/1991 - 7/2000** Graduated in Chemistry in 07/14/2000 at University of Cagliari, (Italy, EU), with a thesis entitled: Multinuclear NMR Study of Isotropic and Anisotropic Na-DNA Aqueous Solutions in the absence and in the presence of Ethidium Bromide. Supervisors: Prof. Adolfo Lai and Prof. Mariano Casu. Grade: 110/110 cum laude.
- 9/1995 - 3/1996** English Course Level Elementary II 50 hours at the University of Cagliari, Italy, EU.
- 9/1986 - 7/1991** School-leaving examination in 07/13/1991 at the Scientific Liceo "G. Brotzu" of Quartu Sant'Elena Cagliari, Italy, EU. Grade: 54/60.

### Awards

- 2006** Preliminary Models of Spheroidal HDL particles through Molecular Dynamics, Andrea Catte, James C. Patterson, Martin K. Jones, Denys Bashtovyy, Feifei Gu, Marcela P. Aliste, Stephen C. Harvey, Ling Li, Gilbert Weinstein and Jere P. Segrest, Emory University Lectureship Award, Poster presentation award - April 3, 2006 Atlanta, Georgia, USA.
- 2005** Career Enhancement Awards Fall 2005-2006 Andrea Catte, James C. Patterson, Martin K. Jones, Denys Bashtovyy, Feifei Gu, Marcela P. Aliste, Stephen C. Harvey, Ling Li, Gilbert Weinstein and Jere P. Segrest, provided by the Office of Postdoctoral Education of the University of Alabama at Birmingham, Birmingham, Alabama, USA.

**Professional organizations** Biophysical Society (USA) member since 2004.

### Publications

1. "In silico investigation of the interaction between the voltage-gated potassium channel Kv4.3 and its auxiliary protein KChIP1", Andrea Catte, Letizia Ferbel, Nicholus Bhattacharjee, Muhammad Jan Akhuzada, Tommaso D'Agostino, and Giuseppe Brancato, *Phys. Chem. Chem. Phys.* 21, 25290-25301, (2019), doi: 10.1039/c9cp04082j.
2. "Temperature Dependence of the Structure and Dynamics of a Dye-Labeled Lipid in a Planar Phospholipid Bilayer: A Computational Study", Muhammad Jan Akhuzada, Luca Sagresti, Andrea Catte, Nicholus Bhattacharjee, Tommaso D'Agostino, and Giuseppe Brancato, *J. Membrane Biol.* 1-14, (2019), doi: 10.1007/s00232-019-00081-6.
3. "Interplay between lipid lateral diffusion, dye concentration and membrane permeability unveiled by a combined spectroscopic and computational study of a model lipid bilayer", Muhammad Jan Akhuzada, Francesca D'Autilia, Balasubramanian Chandramouli, Nicholus Bhattacharjee, Andrea Catte, Roberto Di Rienzo, Francesco Cardarelli, and Giuseppe Brancato, *Sci. Rep.* 9 (1508), 1-12, (2019), doi: 10.1038/s41598-018-37814-x.
4. "Direct prediction of EPR spectra from lipid bilayers - a route to understanding structure and dynamics in biological membranes", Andrea Catte, Gaye F. White, Mark R. Wilson, and Vasily S. Oganessian, *Chem. Phys. Chem.*, 19, 1-12, (2018), doi:10.1002/cphc.201800386.

5. "Antimicrobial action of the cationic peptide, chrysopsin-3: a coarse-grained molecular dynamics study", Andrea Catte, Mark R. Wilson, Martin Walker, and Vasily S. Oganessian, *Soft Matter* 14, 2796-2807, (2018), doi: 10.1039/C7SM02152F.
6. "Molecular electrometer and binding of cations to phospholipid bilayers", Andrea Catte, Mykhailo Grych, Matti Javanainen, Claire Loison, Josef Melcr, Markus S. Miettinen, Luca Monticelli, Jukka Määttä, Vasily S. Oganessian, Samuli Ollila, Joonas Tynkkynen, and Sergey Vilov, *Phys. Chem. Chem. Phys.* 18, 32560-32569, (2016), doi: 10.1039/C6CP04883H.
7. "Application of molecular modelling and EPR spectroscopy to lipid membranes - a combined approach", Andrea Catte, and Vasily S. Oganessian, *Armenian J. Phys.* 9 (2), 159-166, (2016).
8. "Towards atomistic resolution of phosphatidylcholine glycerol backbone and choline head group at different ambient conditions", Alexandru Botan, Andrea Catte, Fernando Favela, Patrick Fuchs, Matti Javanainen, Waldemar Kulig, Antti Lamberg, Markus S. Miettinen, Luca Monticelli, Jukka Määttä, Vasily S. Oganessian, O. H. Samuli Ollila, Marius Retegan, Hubert Santuz, and Joonas Tynkkynen, *arXiv.org* (2015), 1-20, arXiv:1309.2131v2.
9. "Surface Density-Induced Pleating of a Lipid Monolayer Drives Nascent High-Density Lipoprotein Assembly", Jere P. Segrest, Martin K. Jones, Andrea Catte, Medha Manchekar, Geeta Datta, Lei Zhang, Robin Zhang, Ling Li, James C. Patterson, Mayakonda N. Palgunachari, Jack F. Oram, and Gang Ren, *Structure* 23 (7), 1214-1226, (2015).
10. "A robust all-atom model for LCAT generated by homology modeling", Jere P. Segrest, Martin K. Jones, Andrea Catte, and Saravana Prakash Thirumuruganandham, *J. Lipid Res.* 56 (3), 620-634, (2015).
11. "MD simulations suggest important surface differences between reconstituted and circulating spherical HDL", Jere P. Segrest, Martin K. Jones, and Andrea Catte, *J. Lipid Res.* 54 (10), 2718-2732, (2013).
12. "Validation of previous computer models and MD simulations of discoidal HDL by a recent crystal structure of apoA-I", Jere P. Segrest, Martin K. Jones, Andrea Catte, and Saravana Prakash Thirumuruganandham, *J. Lipid Res.* 53, 1851-1863, (2012).
13. "'Sticky' and 'Promiscuous'-the Yin and Yang of Apolipoprotein A-I Termini in Discoidal High Density Lipoproteins: A Combined Computational-Experimental Approach", Martin K. Jones, Feifei Gu, Andrea Catte, Ling Li, and Jere P. Segrest, *Biochemistry* 50, 2249-2263, (2011).
14. "Assessment of the Validity of the Double Super Helix Model for Reconstituted High Density Lipoproteins: A combined computational-experimental approach", Martin K. Jones, Lei Zhang, Andrea Catte, Ling Li, Michael Oda, Gang Ren, and Jere P. Segrest, *J. Biol. Chem.* 285, 41161-41171, (2010).
15. "Role of Lipids in Spheroidal High Density Lipoproteins", Timo Vuorela, Andrea Catte, Perttu S. Niemelä, Anette Hall, Marja T. Hyvönen, Siewert Jan Marrink, Mikko Karttunen, and Ilpo Vattulainen, *PLoS Comput. Biol.*, 6, (10), 1-14, (2010), doi: [10.1371/journal.pcbi.1000964](https://doi.org/10.1371/journal.pcbi.1000964).
16. "Structures of discoidal high density lipoproteins: A combined computational-experimental approach", Feifei Gu, Martin K. Jones, Jianguo Chen, James C. Patterson, Andrea Catte, W. Gray Jerome, Ling Li and Jere P. Segrest, *J. Biol. Chem.*, 285, 4652-4665, (2010).
17. "Dynamics of Activation of Lecithin:Cholesterol Acyltransferase by Apolipoprotein A-I", Martin K. Jones, Andrea Catte, Ling Li and Jere P. Segrest, *Biochemistry*, 48, 11196-11210, (2009).
18. "Thermal Stability of Apolipoprotein A-I in High Density Lipoproteins by Molecular Dynamics", Martin K. Jones, Andrea Catte, James C. Patterson, Feifei Gu, Jianguo Chen, Ling Li and Jere P. Segrest, *Biophys. J.*, 96, 354-371, (2009).
19. "Structure of spheroidal HDL particles revealed by combined atomistic and coarse grained simulations", Andrea Catte, James C. Patterson, Denys Bashtovyy, Martin K. Jones, Feifei Gu, Ling Li, Aldo Rampioni, Durba Sengupta, Timo Vuorela, Perttu S. Niemelä, Mikko Karttunen, Siewert Jan Marrink, Ilpo Vattulainen and Jere P. Segrest, *Biophys. J.*, 94, 2306-2319, (2008).
20. "Novel Changes in Discoidal High Density Lipoprotein Morphology: A Molecular Dynamics Study", Andrea Catte, James C. Patterson, Martin K. Jones, W. Gray Jerome, Denys Bashtovyy, Zhengchang Su, Feifei Gu, Jianguo Chen, Marcela P. Aliste, Stephen C. Harvey, Ling Li, Gilbert Weinstein and Jere P. Segrest, *Biophys. J.*, 90, 4345-4360, (2006).
21. "Binding of the Divalent Metal Ions Mg<sup>2+</sup>, Cd<sup>2+</sup> and Ni<sup>2+</sup> to Liquid Crystalline NaDNA: Polarized Light Microscopy and NMR Investigations", Andrea Catte, Flaminia Cesare Marincola, Johan R.C. van der Maarel, Giuseppe Saba and Adolfo Lai, *Biomacromolecules*, 5, 1552-1556, (2004).

22. "Multinuclear NMR investigation of the NaDNA/Ethidium Bromide Anisotropic System", Andrea Catte, Flaminia Cesare Marincola, Mariano Casu, Giuseppe Saba and Adolfo Lai, *J. Biomol. Struct. and Dyn.*, 20, (1), 99-106, (2002).

### **Selected list of presentations**

1. Modeling inherited and de novo mutations in a voltage-gated potassium channel, Andrea Catte and Giuseppe Brancato, Meeting INFN BIOPHYS and PLEXNET 2018 - September 10-12, 2018, Castello Aldobrandesco, Arcidosso, Grosseto, Tuscany, Italy, EU.
2. Unravelling the molecular basis of Kv4.3 channelopathies: A molecular modeling study of the loss-of-function mutations causing spinocerebellar ataxia type 19/22, Andrea Catte, Nicholas Bhattacharjee, Muhammad Jan Akhunzada, Dineke S. Verbeek, Armagan Kocer, and Giuseppe Brancato, Dutch Neuroscience Meeting 2018 - June 7, 2018, Lunteren & First Scientific Dutch Ataxia Symposium - June 8, 2018, Groningen, The Netherlands, EU (poster).
3. Modeling inherited and de novo mutations in a voltage-gated potassium channel, Andrea Catte, Nicholas Bhattacharjee, Muhammad Jan Akhunzada, Dineke S. Verbeek, Armagan Kocer, and Giuseppe Brancato, Physiological role of ions in the brain: towards a comprehensive view by molecular simulation - CECAM workshop - May 21-23, 2018, Scuola Normale Superiore, Pisa, Tuscany, Italy, EU.
4. Predicting the effects of a de novo mutation in the Kv4.3 potassium channel, Muhammad Jan Akhunzada, Andrea Catte, Nicholas Bhattacharjee, Dineke S. Verbeek, Armagan Kocer, and Giuseppe Brancato, Physiological role of ions in the brain: towards a comprehensive view by molecular simulation - CECAM workshop - May 21-23, 2018, Scuola Normale Superiore, Pisa, Tuscany, Italy, EU (poster).
5. Modeling of artificial and natural ion channels, Andrea Catte, Nicholas Bhattacharjee, Muhammad Jan Akhunzada, Dineke S. Verbeek, Armagan Kocer, and Giuseppe Brancato, Theoretical Physics Tools and Complex Network Physics applied to Biology and Social Systems - Incontro Nazionale delle Iniziative INFN di Gruppo IV: BIOPHYS e PLEXNET - September 25-26, 2017, Scuola Normale Superiore, Pisa, Tuscany, Italy, EU.
6. Multiscale Molecular Dynamics Simulations of Antimicrobial Peptides Chrysopsin-3 in Lipid Bilayers and Vesicles, Andrea Catte, and Vasily S. Oganessian, 52<sup>nd</sup> Annual School of Chemistry Research Colloquium - September 22, 2016, School of Chemistry, University of East Anglia, Norwich, UK, EU.
7. Multiscale Molecular Dynamics Simulations of Antimicrobial Peptides Chrysopsin-3 in Lipid Bilayers, Andrea Catte, and Vasily S. Oganessian, Liposomes, Exosomes, and Virosomes: From Modeling Complex Membrane Processes to Medical Diagnostics and Drug Delivery – Biophysical Society Thematic Meeting - September 11-16, 2016, Ascona, Switzerland (poster).
8. Application of EPR spectroscopy and Molecular Dynamics simulations to lipid membranes – a combined approach, Andrea Catte, Christopher Prior, Gaye F. White, Mark R. Wilson, and Vasily S. Oganessian, 51<sup>st</sup> Annual School of Chemistry Research Colloquium - September 16, 2015, School of Chemistry, University of East Anglia, Norwich, UK, EU (poster).
9. All Atom Molecular Dynamics simulations of DPPC lipid bilayers in the presence of Oxygen and doped with Nitroxide Paramagnetic Spin Probes, Andrea Catte, Christopher Prior, Fatima Chami, Mark R. Wilson, and Vasily S. Oganessian, 50<sup>th</sup> Annual School of Chemistry Research Colloquium - September 17, 2014, School of Chemistry, University of East Anglia, Norwich, UK, EU (poster).
10. Coarse-grained molecular dynamics simulations show disruption of lipid vesicles by apolipoprotein A-I and the amphipathic peptide 4F: Molecular mechanism for formation of discoidal HDL, Andrea Catte, Martin K. Jones, William D. Hancock, Geeta Datta, Medha Manchekar, Palgunachari N. Mayakonda, Vinod Mishra, G. M. Anantharamaiah, and Jere P. Segrest, 57<sup>th</sup> Biophysical Society Annual Meeting - February 2-6, 2013, Philadelphia, Pennsylvania, USA (poster).
11. From Discoidal to Spheroidal HDL particles through All Atom and Coarse Grained Molecular Dynamics simulations, Andrea Catte, Timo Vuorela, Perttu Niemelä, Teemu Murtola, Jere P. Segrest, Siewert-Jan Marrink, Mikko Karttunen, and Ilpo Vattulainen, 7<sup>th</sup> European Conference on Computational Biology - September 22-26, 2008, Cagliari, Sardinia, Italy, EU (poster).
12. Preliminary Models of Spheroidal HDL particles through Molecular Dynamics, Andrea Catte, James C. Patterson, Martin K. Jones, Denys Bashtovyy, Feifei Gu, Ling Li, Aldo Rampioni, Durba Sengupta, Perttu Niemelä, Ilpo Vattulainen, Siewert-Jan Marrink and Jere P. Segrest, 41<sup>st</sup> Annual Conference of the Finnish Physical Society - March 15-17, 2007, Tallinn, Estonia, EU.
13. Preliminary Models of Spheroidal HDL particles through Molecular Dynamics, Andrea Catte, James C. Patterson, Martin K. Jones, Denys Bashtovyy, Feifei Gu, Ling Li, Aldo Rampioni, Durba Sengupta,

- Perttu Niemelä, Ilpo Vattulainen, Siewert-Jan Marrink and Jere P. Segrest, 51<sup>st</sup> Biophysical Society Annual Meeting - March 3-7, 2007, Baltimore, Maryland, USA.
14. Preliminary Models of Spheroidal HDL particles through Molecular Dynamics, Andrea Catte, James C. Patterson, Martin K. Jones, Denys Bashtovyy, Feifei Gu, Songlin Li, Marcela P. Aliste, Stephen C. Harvey, Ling Li, Gilbert Weinstein, Aldo Rampioni, Durba Sengupta, Siewert Jan Marrink and Jere P. Segrest, 15<sup>th</sup> South East Lipid Research Conference – September 22-24, 2006, Callaway Gardens, Georgia, USA (poster).
  15. Novel Protein-Lipid Conformations of High Density Lipoproteins through Molecular Dynamics, Andrea Catte, James C. Patterson, Martin K. Jones, W. Gray Jerome, Denys Bashtovyy, Zhengchang Su, Feifei Gu, Jianguo Chen, Marcela P. Aliste, Stephen C. Harvey, Ling Li, Gilbert Weinstein and Jere P. Segrest, 50<sup>th</sup> Biophysical Society Annual Meeting - February 18-22, 2006, Salt Lake City, Utah, USA.
  16. Novel Protein-Lipid Conformations of High Density Lipoproteins through Molecular Dynamics, Andrea Catte, James C. Patterson, Gilbert Weinstein, Zhengchang Su, Ling Li, Jianguo Chen, Martin K. Jones, Marcela P. Aliste, Stephen C. Harvey and Jere P. Segrest, The Protein Society 19<sup>th</sup> Symposium - July 30 - August 3, 2005, Boston, Massachusetts, USA (poster).
  17. Novel Protein-Lipid Conformations of High Density Lipoproteins through Molecular Dynamics, Andrea Catte, James C. Patterson, Gilbert Weinstein, Zhengchang Su, Ling Li, Jianguo Chen, Martin K. Jones, Marcela P. Aliste, Stephen C. Harvey and Jere P. Segrest, Bio-Image Summer School - Visualization, Manipulation and Modeling of Single Biomolecules – Ecole Normale Supérieure July 11-22, 2005, Paris, France, EU (poster).
  18. Discoidal Complexes of Apolipoprotein A-I with Different Phospholipids Share a Common Model for Size Heterogeneity, Jianguo Chen, James C. Patterson, Andrea Catte, Jere P. Segrest, Ling Li, American Heart Association 6th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology - 28-30 April 2005, Grand Hyatt Washington, Washington, DC, USA (poster).
  19. Molecular Dynamics Simulations of Protein-Encapsulated Lipid Bilayers Converge Rapidly to form Novel Minimal Surfaces, Andrea Catte, James C. Patterson, Jianguo Chen, Ling Li, Martin K. Jones and Jere P. Segrest, 21<sup>st</sup> Annual Trainee Research Symposium - March 2, 2005, Birmingham, Alabama, USA (poster).
  20. Multinuclear NMR Investigation of the Interaction of DNA Liquid Crystals with Divalent Metal Ions, Andrea Catte, Flaminia Cesare Marincola, Mariano Casu, Giuseppe Saba, Adolfo Lai, Alexander Korobko, Wim Jesse, Johan van der Maarel and Jan Reedijk, Biomolecular Chemistry Workshop - March 24-25, 2003, Lunteren, The Netherlands, EU (poster).
  21. A Preliminary Multinuclear NMR Study of DNA Liquid Crystals in the absence and in the presence of Divalent Metal Ions, Andrea Catte, Flaminia Cesare Marincola, Mariano Casu, Nicoletta Zinnarosu, Giuseppe Saba and Adolfo Lai, Start talk of the Marie Curie Host Fellowship - August 14, 2002, Gorlaeus Laboratories, Leiden Institute of Chemistry, Leiden University, The Netherlands, EU.
  22. Multinuclear NMR Study of DNA Concentrated Aqueous Solutions in the absence and in the presence of Divalent Metal Ions, Andrea Catte, Flaminia Cesare Marincola, Mariano Casu, Giuseppe Saba and Adolfo Lai, La Parola ai Giovani III Edition - June 13-14, 2002, Cittadella Universitaria di Monserrato of the University of Cagliari, Cagliari, Sardinia, Italy, EU.
  23. Multinuclear NMR investigation of the anisotropic system NaDNA/Ethidium Bromide, Andrea Catte, Flaminia Cesare Marincola, Mariano Casu, Giuseppe Saba and Adolfo Lai, XXXI<sup>o</sup> Congresso Nazionale di Risonanze Magnetiche - September 19-22, 2001, Plesso Biotechologico of the University of Parma, Parma, Emilia Romagna, Italy, EU (poster).
  24. Multinuclear NMR Study of Isotropic and Anisotropic Na-DNA Aqueous Solutions in absence and in presence of Ethidium Bromide, Andrea Catte, Flaminia Cesare Marincola, Mariano Casu, Giuseppe Saba and Adolfo Lai, La Parola ai Giovani II Edition - April 23-24, 2001, Cittadella Universitaria di Monserrato of the University of Cagliari, Cagliari, Sardinia, Italy, EU.

### **Informatics knowledge**

NAMD, Gromacs, VMD, Chimera, RasMol, Gimp, LaTeX, Texmaker, Matlab, Ubuntu, Unix, OpenOffice, Linux, Windows, Office, Mozilla Firefox, Internet Explorer, Wordpress, Origin and Kaleidagraph.

### **Hobbies**

Running, playing football and volleyball, cycling, traveling, music, photography, cooking, gardening, collecting seashells, reading, cinema, writing, blogging and designing webpages.