

# RICCARDO SIDNEY GATTA

Via Biasoletto, 27  
34142 Trieste, ITALY

Tel.: +39.040.363488 / +39.338.6817877  
e.mail: rsg@gattart.org  
URL: <http://www.gattart.org>

## EDUCATION

- 2003: Ph.D., Molecular Genetics, *International Centre for Genetic Engineering and Biotechnology (ICGEB)/ Jawaharlal Nehru University (JNU)*, New Delhi, India. Thesis: Molecular Interactions Involved in Erythrocyte Invasion by Malaria Parasite. Advisor: Dr. Chetan Chitnis.
- 1995: Laurea in Farmacia (Italian equivalent of M.Sc. in Pharmacy), *University of Trieste*, Trieste, Italy. Thesis in Pharmaceutical Chemistry: Sintesi di Analoghi del Muscarone quali Potenziali Antagonisti Muscarinici (Synthesis of Muscarone Analogues as Potential Muscarine Antagonists). Advisors: Prof. Marco De Amici and Dr. Teresa Gianferrara.
- 1981: High School Certificate, Arts and Sciences, *Carson Graham Senior Secondary*, North Vancouver, British Columbia, Canada. [CLICK HERE](#) to view all certificates

## RELEVANT WORK EXPERIENCE

- Presently: Pharmaceutical chemist and Scientific Consultant (biosignature recognition, molecular diagnostics & natural resources development); Bio-conservation project with a south-east Asian non-governmental organization; Follow-up to my publications on biosignature recognition.
- 2004: Representative of Minister Dr. Shürhozelie, *Government of Nagaland*, India, at the Workshop on the Role of Science and Technology for Sustainable Management of Mineral Resources Development. *International Center for Technology and Innovation ALARICO*, Cosenza, Italy.
- 2003: Lecturer at the Seventh Conference on Chemical Evolution. *The Abdus Salam International Centre for Theoretical Physics (ICTP)*, Trieste, Italy.
- 1996-1998: *Eurokit s.r.l.*, Gorizia, Italy. Researcher: hygiene formulations and immunodiagnostics.
- 1995: Pharmacy apprenticeship at the *Farmacia Picciola alla Croce Bianca*, Trieste. Galenic preparations lab, and I attended a professional course for neo-galenic formulations.
- 1983: Voluntary service in the *Medical Corps* of the *Canadian Forces Primary Reserve*.

## RELATED COURSES

- 2005: Working in international cooperation for development (Operare nella cooperazione internazionale per lo sviluppo), sponsored by the Friuli Venezia Giulia regional government of Italy.
- 2004: 4th Antonio Borsellino College on Neurophysics, *The Abdus Salam ICTP*.
- 2002: Parasite Bioinformatics: Application in Genomic Studies, *ICGEB*.
- 2001: Tibetan medicine for non-Tibetan health professionals, *Men-Tsee-Khang*, Dharamsala, India.
- 2000: Sixth Conference on Chemical Evolution, *The Abdus Salam ICTP*.
- 2000: 14th National Congress of Parasitology, *ICGEB*.
- 1999: Ph.D. Courses, *ICGEB / JNU*.
- 1998: International Congress of Immunology, New Delhi.
- 1998: 2nd Antonio Borsellino College on Neurophysics, *The Abdus Salam ICTP*.
- 1998: Workshop on the Structure of Biological Macromolecules, *The Abdus Salam ICTP*.
- 1983: General Sciences, first year, *University of British Columbia*, Vancouver, B.C., Canada.
- 1981: French language scholarship, *University of Quebec, Trois Rivières*, Quebec, Canada.

## PROFESSIONAL AFFILIATIONS

*European Federation of Biotechnology*, since 2003.

*Order of Pharmacists*, Gorizia, Italy, since 7 January 1997, and recently transferred to Trieste.

## OTHER RELEVANT INFORMATION

**Nationality:** Italian / Canadian / Australian

<b>Languages:</b>	<i>Spoken</i>	<i>Read</i>	<i>Written</i>
<i>English:</i>	fluent	yes	yes
<i>Italian:</i>	fluent	yes	yes
<i>French:</i>	near fluent	yes	yes
<i>Spanish:</i>	scholastic	yes	basic
<i>German and Hindi:</i>	scholastic	basic	basic

**Computer skills:** Excellent working knowledge of the Windows, Macintosh, Silicon Graphics and Linux operating systems using internet, genetics, molecular biology, chemistry and Office suite software.

### Publications:

Gatta RS (2004). Poster: The case for life existing outside of our biosphere: techniques for identifying molecular structures, in Seckbach, J., Chela-Flores, J., Owen, T. and Raulin, F., (eds.), in "Life in the Universe", Cellular Origin and Life in Extreme Habitats and Astrobiology, 7, Springer: Dordrecht, The Netherlands.

Gatta RS and Chela-Flores J (2004). Application of molecular biology techniques in astrobiology, in Seckbach, J., Chela-Flores, J., Owen, T. and Raulin, F., (eds.), in "Life in the Universe", Cellular Origin and Life in Extreme Habitats and Astrobiology, 7, Springer: Dordrecht, The Netherlands, pp. 269-273.

## COVERING LETTER

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My strong academic credentials together with my technical experience well equip me for the challenges of the position that you are offering. I have a degree in pharmacy with a specialization in pharmaceutical chemistry at the post graduate level. Following my degree I worked for a small biotech firm in Italy and subsequently won a PhD fellowship in molecular genetics at a laboratory associated with the United Nations in India.

I have exceptional interpersonal and organizational skills developed in a diverse range of professional settings and cross cultural environments. At the moment I am living in Italy but I am looking forward to relocating as soon as possible in pursuit of my professional goals.

I am seeking a scientific position that takes advantage of the experience that I gained from my previous work in the development and analysis of molecules involved in novel therapeutic paradigms. In addition to fulfilling administrative, teaching or technical roles, I am particularly interested in working on the mechanisms of novel therapeutic agents or on the evaluation of gene and protein function in either academic or industrial settings.

I have a wide range of skills common to my specializations in pharmaceutical chemistry and molecular genetics. My strong presentation and teaching abilities have been refined at numerous international workshops and training courses over the past ten years. I have a complete understanding of lab safety and GLP/GMP norms to European and international standards. Finally, I have an excellent practical knowledge of the Microsoft, Macintosh, SGI and Linux operating systems for the use of office, chemistry, molecular biology, genetics and internet software. Details of my professional expertise are listed below in chronological order:

### **2003-present - Scientific consultant on short term contracts, Trieste, Italy**

- pharmaceutical chemist: community pharmacy work and updating galenic formulations lab in Trieste
- consultancy service: biomolecule recognition, immune-diagnostics, and natural resources development
- technical translations in the field of biotechnology
- lecture at an international conference on chemical evolution
- scientific representative at an international workshop on natural resource development

### **1998-2003 - Molecular genetics PhD fellowship at the I.C.G.E.B., New Delhi, India**

- nucleic acids: database search, plasmid design, cloning, analysis and purification
- cell culture: bacterial, insect and mammalian
- proteins: design, expression, analysis and purification
  - recombinant protein expression in bacteria and mammalian cells
  - baculovirus mediated protein expression in insect cells (BEVS)
- microscopy: visible light and fluorescence
- antibody production in lab animals
- *in vitro* nucleic acid and protein assays: immune and functional assays
- sample preparation for automatic sequencing, flow cytometry and Biacore
- formal post-graduate in bioinformatics, microarrays, x-ray crystallography, cell biology, immunology, parasitology and plant molecular biology

### **1996-98 - Researcher at Eurokit s.r.l., Gorizia, Italy**

- development of a line of neo-galenic hygienic formulations
- consultant in immune-diagnostic kit production
- consultant in the design of a new factory and laboratory
- technical interpreter for the CEO (Italian, English and French)

### **1995 - Pharmacy apprenticeship at the Picciola alla Croce Bianca, Trieste, Italy**

- galenic formulations
- specialized course for neo-galenic and cosmetic preparations
- commercial and legislative aspects of running a pharmacy

### **1994-95 - Pharmacy degree internship in the pharmaceutical chemistry lab, University of Trieste, Italy**

- design of small molecule muscarine receptor antagonists
- pure organic synthesis
- chromatography (thin layer, column, 'high performance' and gas)
- spectroscopy (I.R. and U.V., mass, and NMR data interpretation)

Please contact me either by phone or email to discuss my candidacy. I am available for a preliminary "face-to-face" interview by web-cam using an internet instant messenger-type service. A copy of my C.V. containing web-links to copies of my certificates, to my PhD thesis and to other pertinent documents is available on my web-site: <http://www.gattart.org>

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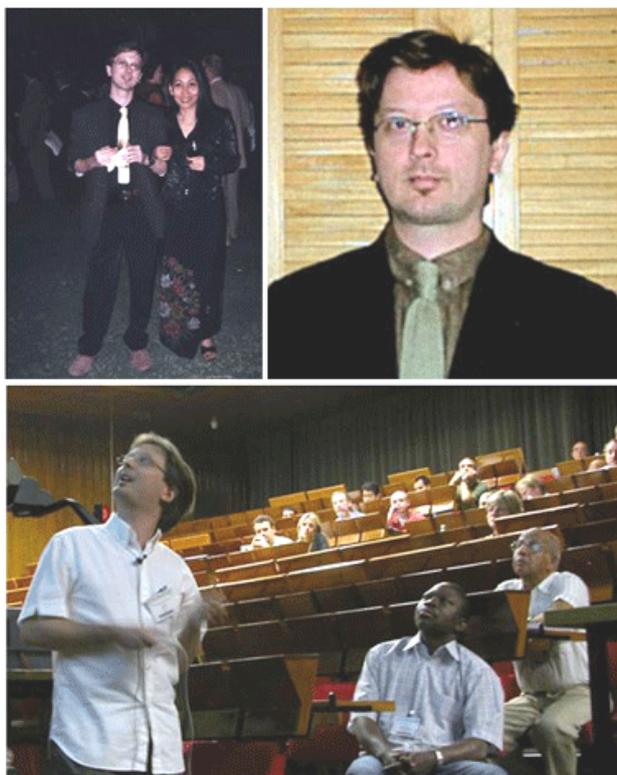
e.mail: [rsg@gattart.org](mailto:rsg@gattart.org)

URL: [www.gattart.org](http://www.gattart.org)

## PHOTOGRAPH

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*Collage of a personal close-up, a photo from my lecture on molecular biology techniques at an international conference on chemical evolution, and a photo with my wife, Teresa.*



## REFERENCES

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### *Scientific references:*

1. **Prof. Julian Chela-Flores** (chelaf@ictp.it); mentor and co-author; Research Associate, School of Theoretical Physics, Dublin Institute for Advanced Studies, Ireland, and Professor, The Abdus Salam International Centre for Theoretical Physics (ICTP); The Abdus Salam ICTP, Trieste, Italy. Tel.: +39.040.2240392.
2. **Dr. Ana Vasileva** (ana.vasileva@mssm.edu); ICGEB PhD fellowship colleague; Post-doc, Department of Gene and Cell Medicine, Mount Sinai School of Medicine, New York, NY, USA. Tel.: +1.646.2230709 or lab: +1.212.6598248.
3. **Dr. Chetan Chitnis** (cchitnis@icgeb.res.in); ICGEB PhD guide; Malaria lab, ICGEB New Delhi, India. Tel.: +91.11.26189358.
4. **Dr. Teresa Gianferrara** (gianfer@units.it), Pharmacy thesis guide (co-relatrice): Facoltà di Farmacia, Dipartimento di Scienze Farmaceutiche, Università di Trieste, Italy. Tel.: +39.040.5587859.

### *Personal references:*

5. **Dr. Tseibu Rutsa** (leadershiptraining77@yahoo.com); Theologian and family friend; 409 Holland Rd. Fuquay-Varina, N.C., U.S.A. Tel.: +1.919.4185505.
6. **Erich Ledwon** (el\_camar@telus.net); Retired RCMP officer and family friend; PO Box 163, Topley, B.C., V0J 2Y0, Canada. Tel.: +1.250.6963481.

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