

## PERSONAL INFORMATION

Vito Flavio Licciulli

## WORK EXPERIENCE

01/01/2008–Present

**Researcher**

C.N.R. - Institute for Biomedical Technologies, BARI (Italy)  
[www.ba.itb.cnr.it](http://www.ba.itb.cnr.it)

Bioinformatician.

-Main research activities are: design, implementation and maintenance of biological databases and data-warehouses; management and integration of large amounts of biological data (BigData); development of bioinformatics analysis pipelines and WEB interfaces;

- System Manager of Unix/Linux based computer servers.

- Author/coauthor of about 40 papers in international peer-reviewed journals in the field of Bioinformatics, he has been involved in more 20 national and international project both as participant and as a Principal Investigator, and he has played in several lectures in Bioinformatics courses/masters.

02/07/2007–31/12/2007

**Research Fellow**

C.N.R. - Institute for Biomedical Technologies, BARI (Italy)

Bioinformatician. Design and development of a bioinformatics platform based on a data-warehouse for the management and analysis of microarray expression data.

01/05/2007–30/11/2017

**Research Consultant**

University of Salento, Dipartimento di Ingegneria dell'Innovazione, Lecce (Italy)

Bioinformatician. Development of a system for the integration of biological database through cross references.

01/01/2003–31/03/2006

**Researcher (fixed-term contract)**

C.N.R. - Institute for Biomedical Technologies, BARI (Italy)

Bioinformatician. Design and development of biological database and data-integration. Development of software and web interface for the functional analysis of biosequences.

01/03/2001–01/12/2002

**Research consultant**

C.N.R. - Centro di Studio sui Mitocondri e Metabolismo Energetico, BARI (Italy)

Bioinformatician. Management of the SRS software for the management of biological databases. Development of applications and web interface for the management of bioinformatics analysis tools

01/09/2000–28/02/2001

**Researcher (fixed-term contract)**

C.N.R. - Centro di Studio sui Mitocondri e Metabolismo Energetico, BARI (Italy)

Bionformatician. Development of biological database and data integration.

- 08/01/1994–31/12/2000 **Scientific and Technical Consultant**  
C.N.R. - Area della Ricerca di Bari, BARI (Italy)  
System and database manager of the informatics infrastructure of C.N.R. - Area della Ricerca di Bari.  
Management of the bioinformatics tools and part of the customer service of EMBNET (an european bioinformatics network)  
Development of biological database and software for the analysis of biosequences.
- 01/01/1999–30/06/1999 **Scientific Consultant**  
Stazione Zoologica 'Anton Dohrn', Naples (Italy)
- 01/12/1998–31/01/1999 **Scientific Consultant**  
University of Bari. Molecular Biology Department, Bari (Italy)  
Development of biological databases
- 01/10/1998–01/12/1998 **Scientific Consultant**  
C.N.R. - Centro di Studio sui Mitocondri e Metabolismo Energetico, BARI (Italy)  
Development of biological databases and access monitoring systems
- 01/01/1996–31/12/1999 **Technical Consultant**  
INFOTEL s.p.a, Taranto (Italy)  
After sale computer server support on Digital Unix Server and Workstation
- 01/01/1997–31/12/1999 **Technical Consultant**  
Summer Systems – Spring Italia Group, Roma (Italy)  
After sale Technical support in South Italy for HP-UNIX servers. HP OpenView Network Node Manager software specialist.
- 01/07/1995–31/07/1995 **Consultant**  
Tecnopolis-CSATA, Bari (Italy)  
Biological database management

## EDUCATION AND TRAINING

- 01/09/1987–12/06/1992 **Degree in Computer Science**  
University of Bari, BARI (Italy)  
110/110
- 09/1982–07/1987 **High school - Informatics**  
Istituto Tecnico Industriale "M. Panetti", BARI (Italy)

## PERSONAL SKILLS

Mother tongue(s) Italian

## Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

## Communication skills

Good communication skills. I made various scientific presentation of my research activities mainly in English.

## Organisational / managerial skills

- Head, since 2005, of the Bioinformatics infrastructure (database and computer server management ) at CNR-ITB, Bari institute. I supervise a technician devoted to the system management activities. The CNR-ITB Bari Bioinformatics infrastructure is composed of various servers and clusters, each devoted to a particular task such as HPC/HTC computational servers, database and web/web-service servers, for the dissemination to the scientific community of bioinformatics tools (database and software) developed by the ITB-Bari research unit personnel and collaborators. In detail, the server infrastructure consists of more than 100 CPU-core (including 2 Tesla GPUs for CUDA applications) , approximately 1,2 TB RAM and more than 80TB of disk space, in 3 servers and 2 clusters.

-Team leader for the "design and development of biological database and systems for data-integration" group.

-Member of various commissions for the purchase and testing of scientific, mainly informatics, equipments

## Job-related skills

Since 1994 I'm involved in Bioinformatics in the Bari Bioinformatics Group, headed by Prof. C.Saccone. Within the group, my research activities have developed into the following topics: design, development, implementation and maintenance of biological databases and data-warehouses; management and integration of large amounts of biological data (BigData); development of bioinformatics analysis pipelines, mainly focused on NGS data; development of WEB interfaces for bioinformatics software and pipelines; Computer Server management and network management; management of (bio)informatics infrastructure.

-Participation in more than 20 Italian and European research projects since 1996. In particular, Principal Investigator for the CNR-ITB-Bari in the following research projects:

\* Italian Flagship MIUR project "Epigenomics" (2011-2016). Activity: Development of federated/datawarehouse systems for biological data integration.

\* Italian MIUR project CISIA - "Integrated knowledge for the sustainability and innovation in *made in Italy* agrofood" (2011-2016). Activity: Management of the Bioinformatics genetic resource databases in agrofood field.

\* Italian MIUR-FAR project "MBLab, a Bioinformatics laboratory for Molecular biodiversity" (2007-2010), co-principal investigator. Activity: Scientific responsible of "OR2-Design and development of the bioinformatics infrastructure for the biological database management"

-Involved in ELIXIR (<https://elixir-europe.org/>) activities related to the Interoperability and Data Platforms. In particular involved in the BioSchemas and Marine Metagenomics implementation studies.

-Various teaching activities in Masters and University courses (laboratory assistant) in Bioinformatics and Biological Databases.

## Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

## Digital skills - Self-assessment grid

-In-depth knowledge and management experience in the following operating systems: UNIX / LINUX, Windows, MacOS, VAX / VMS.

-In-depth knowledge and management experience of relational and NoSQL database management

systems.

-Programming experience in the languages: Perl, BioPerl, R, C.

-Excellent experience in office suite software.

-Good experience in Network Management, in particular expert on connections through TCP / IP protocol on both LAN and WAN.

#### Other skills

-Music lover, amateur musician (keyboards player), excellent knowledge of MIDI protocol and interconnections between computer and music keyboard

-Passionate and practicing sports, in particular car racing at a good level

#### Driving licence

BE

### ADDITIONAL INFORMATION

#### Publications

(Co)authors of about 40 papers in International Journal with peer review (H-index=16). The 5 most important related scientific publications:

- "ITSoneDB: a comprehensive collection of eukaryotic ribosomal RNA Internal Transcribed Spacer 1 (ITS1) sequences." Santamaria M, Fosso B, Licciulli F, Balech B, Larini I, Grillo G, De Caro G, Liuni S, Pesole G. Nucleic Acids Res. (2018)

- "GIDL: a rule based expert system for GenBank Intelligent Data Loading into the Molecular Biodiversity database." Pannarale P, Catalano D, De Caro G, Grillo G, Leo P, Pappadà G, Rubino F, Scioscia G and Licciulli F. BMC Bioinformatics (2012)

- "UTRdb and UTRsite: specialized databases of sequences and functional elements of 5' and 3' untranslated regions of eukaryotic mRNAs. Update 2002." Graziano Pesole, Sabino Liuni, Giorgio Grillo, Flavio Licciulli, Flavio Mignone, Carmela Gissi, and Cecilia Saccone. Nucleic Acids Res (2002)

- "KEYnet: a keywords database for biosequences functional organization." F.Licciulli, D.Catalano, D.D'Elia, V.Lorusso and M.Attimonelli. Nucleic Acids Research (1999)

- "The LIBI Grid Platform for Bioinformatics". M.Mirto et al. Book Chapter in Handbook of Research on Computational Grid Technologies for Life Sciences, Biomedicine and Healthcare, IGI Global (2009)

#### Memberships

-Member of the ELIXIR-IT Local Technical Coordinators (LTec) group since September 2016.

-Member of the "CNR-Area di Ricerca di Bari" informatics technical staff (since 2005)

-Senior member of the Italian Bioinformatics Society (BITS) since 2004. Society Treasurer since 2016.

-Member of EMBnet, a global Bioinformatics network (www.embnet.org), Italian Node from 1996

The undersigned express their consent for the personal data provided to be processed, in compliance with the Legislative Decree 30 June 2003, n. 196, for the obligations related to the present application. The undersigned is aware that, pursuant to art. 76 of the D.P.R. n. 445 of the 28/12/2000, the false declarations, the falsity in the records and the use of false deeds are punished according to the penal code and the special laws in matter.

In accordance with the Italian DPR no. 445/2000, Italian the signature is not subject to authentication, this declaration must be accompanied by a photocopy of a identification document.

Signature

