

# European curriculum vitae



## Personal information

Surname(s) / First name(s) **Liboi Elio Maria**  
Address(es) 85, Via Marsala, 37128, Verona, Italy  
Telephone(s) +39 045 802 7666 (work) Mobile: +39 333 4376706  
Fax(es) +30 045 830 9104 (home)  
E-mail(s) elio.liboi@univr.it  
Nationality(-ies) Italian  
Date of birth 29/09/1955 Milano, Italy  
Gender Male

## Desired employment / Occupational field

1. END

## Work experience

Dates 1987 November -present  
Occupation or position held **Researcher/ Adjunct Professor in biochemistry**  
Main activities and responsibilities Leading a Research team on glycoproteins in bone diseases/metabolic diseases.  
Teaching: biochemistry-metabolism-nutrition.  
Name and address of employer University of Verona Medical School, Strada LeGrazie 8 37134 Verona, Italy  
Type of business or sector Research/Education  
  
Dates 2010-present  
Occupation or position held **Delegate for internationalization of the School of Medicine at University of Verona**  
Main activities and responsibilities Institutional Delegate for ERASMUS+ mobility  
Name and address of employer University of Verona  
Type of business or sector International Student mobility  
  
Dates July-September 2006  
Occupation or position held **Visiting scientist**  
Main activities and responsibilities Research: glycoproteins on bone diseases  
Name and address of employer Shriners Hospital for Children, Portland OR, USA  
Type of business or sector Cure/Research  
  
Dates 2000-2004  
Occupation or position held **Expert evaluator**  
Main activities and responsibilities Evaluation of projects in the 5 and 6 EC framework program  
Name and address of employer European Commission RDG

Type of business or sector	Evaluation Projects: "Quality of life and management of living resources".
Dates	1998 December-1999 December
Occupation or position held	<b>Scientific coordinator</b>
Main activities and responsibilities	Technology transfer/project coordinator
Name and address of employer	Biopolis srl, Milano Italy
Type of business or sector	Technology transfer
Dates	1993 January-1995 March
Occupation or position held	<b>Research Associate</b>
Main activities and responsibilities	Research neurobiology/cell proliferation Teaching: cell biology-microbiology-virology
Name and address of employer	University of Milano, Dept. of Pharmacological Sciences, Milano, Italy
Type of business or sector	Research/ Education
Dates	1990 November-1992 November
Occupation or position held	<b>Research Associate</b>
Main activities and responsibilities	Research on growth factors/virus in blood diseases
Name and address of employer	Dana Farber Cancer Institute, Pediatric Oncology, Harvard Medical School, Boston, USA
Type of business or sector	Research/Cure/Education
Dates	1987 (January-October)
Occupation or position held	<b>Visiting scientist</b>
Main activities and responsibilities	Research: virus/cell growth
Name and address of employer	National Cancer Center, Tokyo, Japan
Type of business or sector	Research/Cure
Dates	1984 November-1986 December
Occupation or position held	<b>Researcher</b>
Main activities and responsibilities	Research: microbiology/virus/cell proliferation
Name and address of employer	Istituto Superiore di Sanità, Division of Virology, Roma, Italy
Type of business or sector	Research
Dates	1981 September-1984 September
Occupation or position held	<b>Post doctoral fellow</b>
Main activities and responsibilities	Research: DNA tumor virus/growth factors
Name and address of employer	New York University Medical School, Dept. Pathology, New York, USA
Type of business or sector	Research/Education

## **Education and training**

Dates	1976-80
Title of qualification awarded	Graduate student in the Dept. of Pharmacology, Laboratory of Microbiology, University of Milano, Italy. 1980: Laurea in Pharmaceutical Sciences.
Page 2 - Curriculum vitae of	For more information go to <a href="http://europass.cedefop.eu.int">http://europass.cedefop.eu.int</a>
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Principal subjects/Occupational skills covered	Undergraduate student in microbiology to perform experimental thesis on RNA virus.
Name and type of organisation providing education and training	University of Milano, School of Pharmacological Sciences, Milano Italy.
Level in national or international classification	Academic ranking of world Universities: 151-200

## Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

*Self-assessment*

*European level (\*)*

**Language**

**Language**

	Understanding		Speaking		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
C1	English	C1	English	C1	English	C1
B2	Spanish	B2	Spanish	B1	Spanish	B1
B1	French	B1	French	B1	French	B1

Social skills and competences

During my work experiences in foreign countries (USA, Japan) and within Italy (Milan, Roma, Verona) I had the opportunity to socialize extensively and successfully with people coming from many different countries. My long teaching experiences taught me the way to positively interact with young people.

In addition, since 2009 I am in charge as Delegate for international relations of the Verona University School of Medicine. I performed several teaching/training staff mobility in Europe under Erasmus program and I acquired further skills for a positive and communicative interaction with Faculties and technical staff belonging to foreign Universities. This is demonstrated by the new agreements I have signed with Cardiff (UK), Lisbon (P), Riga LV), Oulu (F).

Organisational skills and competences

I have directed research group in Italy and I have organized several work-based meetings. I managed scientific grants from Telethon, Peugeot Italia, Italian Government, NATO, Foundation Cassa di Risparmio. I have attended to many international meetings where I presented research data obtained in the lab. Since 2010, I am the Institutional coordinator for International student mobility (ERASMUS+) of the School of Medicine at the University of Verona.

Technical skills and competences

My technical skills and competences are in the biochemical-molecular-cellular technologies in the field of biomedical research. Molecular cloning and recombinant DNA technology. My expertise is on glycobiology indeed glycoproteins are key molecules in both bacteria-host interaction and viral infection.

My teaching skills in biology-biochemistry-molecular biology have been gained after many years teaching in Italian Universities (Milan and Verona). My biochemical course for nursing and midwifery students includes food absorption and metabolism and a particular emphasis is due to health-related problems by food and/or microbial agents (Creutzfeld-Jacob prion disease, cholera, malaria etc.). I have a limited competence in *technology transfer and patenting*.

Computer skills and competences

Editing, writing, data bases (specific programmes for protein, DNA sequences), searching on the network. Internet-based research skills. Editing artwork (see figures in published papers).

Artistic skills and competences

I love painting and acting: both activities are very relaxing and fulfilling to me. Technical skills are oil painting and etching. I performed in theatrical laboratory searching for expression forms.

Other skills and competences

I am a motorbike rider since the age of 14. I have been participating in restoration process of "vintage" motorbikes (Moto Guzzi). The sports I love are tennis and ski (downhill). Cooking: as much as I can, because it is relaxing and it could please family and friends.

Driving licence(s)

I hold a driving licence (B type) for vehicles such as cars, small tracks, and motorbikes.

## Additional information

### Annexes

#### Annex 1. List of publications:

- Della Chiara G., Crotti A., **Liboi E.**, Giacca M., Poli G., & Lusic M. (2011) Negative regulation of HIV-1 transcription by a heterodimeric NF-kB1/p50 and C.terminally truncated STAT5 complex. *J. Mol. Biol.* 410: 933-943.
- Lievens P. M-J., Zanolli E., Garofalo S., & **Liboi E.** (2009) Cell adaptation to activated FGFR3 includes Sprouty4 up regulation to inhibit the receptor-mediated ERKs activation from the endoplasmic reticulum. *FEBS Letter* 583: 3254-3258.
- Lievens P. M-J., DeServi B., Garofalo S., Lunstrum G., Horton W.A., & **Liboi E.** (2008) Transient dimerization and interaction with ERGIC-53 occur in the Fibroblast Growth Factor Receptor 3 early secretory pathway. *Int. J. Biochemistry and Cell Biology* 40: 2649-2659.
- Lievens P. M-J., Zanolli E., Garofalo S., & **Liboi E.** (2009) Cell adaptation to activated FGFR3 includes Sprouty4 up regulation to inhibit the receptor-mediated ERKs activation From the endoplasmic reticulum. *FEBS letters* 583; 3254-3258.
- Crotti A., Della Chiara G., Grezzi S. Lupo R., Jeeninga R.E., **Liboi E.**, Lievens P. M-J., Vicenzi E., Bovolenta C., Berkhout B., & Poli G. (2007) Heterogeneity of signal transducer and activator of transcription binding sites in the long-terminal repeats of distinct HIV-1 subtypes. *Open Virology J.*, 1:26-32.
- Crotti A., Lusic M., Lupo R., Lievens P. M-J., **Liboi E.**, Della Chiara G., Tinelli M., Lazzarin A., Patterson B.K., Giacca M., Bovolenta C., & Poli G. (2007) Naturally occurring C-terminally truncated STAT5 is a negative regulator of Human Immunodeficiency Virus-type1 expression. *Blood*, 15: 5380-5389.
- Lievens P. M-J., Roncador A., & **Liboi E.** (2006). K644E/M mutants activate Erk1/2 from the Endoplasmic Reticulum through FRS2a and PLC $\gamma$ -independent pathways. *J. Mol. Biol.* 357: 783-792.
- Lievens P. M-J., Mutinelli C., Baynes D., & **Liboi E.** (2004). The Kinase activity of Fibroblast Growth Factor Receptor 3 with activation loop mutations affects receptor trafficking and signalling. *J. of Biological Chemistry* 279: 43254-43260.
- Lievens P. M-J. & **Liboi E.** (2003). The Thanatophoric Dysplasia Type II mutation hampers complete maturation of FGF Receptor 3, which activates STAT1 from the Endoplasmic Reticulum. *J. of Biological Chemistry* 278: 17344-17349.
- Foti M., Granucci F., Aggujaro D., **Liboi E.**, Luini W., Minardi S., Mantovani A., Sozzani S. & Ricciardi-Castagnoli P. (1999). Upon dendritic cell activation chemokines and chemokine receptor expression are rapidly regulated for recruitment and maintenance of dendritic cells at the inflammatory site. *Int. Immunology*, 11(6): 976-986.
- Bovolenta C., Testolin L., Benussi L., Lievens P.M-J., & **Liboi E.** (1998). Positive selection of apoptosis-resistant cells correlates with activation of dominant-negative STAT5. *J. of Biological Chemistry* , 273:20779-20784.
- Cattaneo E., DeFraja C., Conti L., Reinach B., Bolis L., Govoni S. & **Liboi E.** (1996).

Activation of the JAK/STAT pathway leads to proliferation of St14A central nervous system progenitor cells. *J. of Biological Chemistry* 271:23374-23379.

- Tognon M., Romanelli M.G., Cattozzo E.M., Bovolenta C. & **Liboi E.** (1993) C-fos proto oncogene transient transcription is negatively affected in the ELa4-2 transformed rat cell line. *Phatobiology*; 61:288-292.
- **Liboi E.**, Carrol M., D'Andrea A. & Mathey-Prevot B. (1993) The erythropoietin receptor signals both proliferation and erythroid-specific differentiation. *Proc.Natl.Acad.Sci. USA*, 90:11351-11355.
- **Liboi E.**, Jubinsky P., Andrews N.C., Nathan D.G. & Mathey-Prevot B. (1992) Enhanced expression of IL-3 and GM-CSF receptor subunits in murine hematopoietic cells stimulated with hematopoietic growth factors. *Blood*; 80, 5: 1183-1189.
- Bovolenta C., Tognon M. & **Liboi E.** (1991) Epidermal Growth Factor induces the Herpes Simplex virus 1 immediate early a4 gene transcription in the absence of the viral trans-activator. VP16. *Virus Research* ; 19: 199-208.
- DiFrancesco P., **Liboi E.**, Febbraro G. & Favalli C. (1989) Regulation of cell proliferation by inducible-secreted proteins in growth factor-treated EL2 rat fibroblasts. *J. Chemotherapy*; 4:1174-1176.
- DiFrancesco P., Pelosi Testa E., Testa U. & **Liboi E.** (1989) Altered growth factor sensitivity in EL2 rat fibroblasts: influence of this biological characteristic on cell growth. *Eur. J.Cell Biol.*; 49:196-201.
- DiFrancesco P., **Liboi E.**, Febbraro G. & Favalli C. (1989) Stimulation of DNA synthesis by Interferon and Transforming Growth Factor b in EL2 rat fibroblasts. *Int. J. Immunopathol. Pharmacol.*; 3:185-191.
- DiFrancesco P. & **Liboi E.** (1988) Role of c-fos gene expression on the mitogenic response in EL2 rat fibroblasts. *Int. J. of Tissue Reaction*; 10: 311-319.
- DiFrancesco P., Favalli C. & **Liboi E.** (1988) Secreted proteins induced by Epidermal Growth Factor and Transforming Growth Factor beta in EL2 rat fibroblasts. Role in the mitogenic response. *Cell Biol. Int. Rep*; 12:365-372.
- **Liboi E.**, DiFrancesco P., Gallinari P., Testa U. Rossi G.B. & Peschle C. (1988) TGFb induces a sustained c-fos expression associated with stimulation vs. inhibition of cell growth in EL2 vs. NIH3T3 fibroblasts. *Biochem. Biophys. Res. Comm.* 1988; 151:298-305.
- **Liboi E.**, Pelosi E, DiFrancesco P, Gallinari P, Petrini M, Sposi NM, Testa U, Rossi GB, Peschle C. (1987). The EL2 rat fibroblasts line: differential effects of growth factors (EGF, PDGF, FGF, TPA and TGFb) on cell proliferation and c-fos expression. *Annals, New York Academy of Sciences.*; 511:318-328.
- **Liboi E.**, Pelosi E, Testa U, Peschle C, & Rossi GB. (1986). Induction of cell growth and oncogene expression by EGF in EL2 rat cells. In: Baserga R, Foa P, Metcalf D, Polli EE, eds. "Biological regulation of cell proliferation" Vol. 34, New York: Raven Press.295-298.
- **Liboi E.**, Pelosi E., Testa U., Peschle C. & Rossi G.B. (1986). Proliferative response and oncogene expression induced by Epidermal Growth Factor in EL2 rat fibroblasts. *Molecular and Cellular Biology* 6:2275-2278.

- Liboi E., Caruso M. & Basilico C. (1984) A new rat cell line which is highly susceptible to transformation by several oncogenes. *Molecular and Cellular Biology* 4:2925-2928.
- Liboi E. & Basilico C. (1984). Inhibition of Polyoma gene expression in transformed mouse cells by hypermethylation. *Virology* 135:440-451.
- Radaelli A., Righi M., Liboi E. & DeGiuli Morghen C. (1983). Ultrastructural and biochemical evidences that the L929 cell retrovirus lacks the "env" gene translation product. *J Gen. Virol.* 65:295-307.
- Righi M., Radaelli A., Ricciardi P., Liboi E. & DeGiuli Morghen C. (1983). Identification by monoclonal antibodies of a new epitope in the glycoprotein complex of Sinbis virus. *J Virol. Methods* 6:203-214.
- DeGiuli Morghen C., Radaelli A., Righi M. & Liboi E. (1982). The electron microscopy in the field of viral pathology. *Caryologica* 35:163-169.
- Radaelli A., Liboi E., Righi M. & DeGiuli Morghen C. (1982). Evidence that L929 cell retrovirus is defective in the "env" gene translation product. *Caryologica* 35:185-196.

**Annex 2. Minor appointments:**

2001-2003:

Collaboration on bone diseases with OMSK University, OMSK, Russia in the "Cooperative Science and Technology" NATO program (CLG 977848). June 2003 visiting OMSK University.

October-December 1984:

Visiting scientist at University of Montpellier, Montpellier (France) in the Division of Protein Biochemistry.

**Annex 3. Awards and Honours**

1981-83/1984-86	Fellow of the 'Associazione Italiana per la Ricerca sul Cancro'.
1987	Award of the Japan Foundation for Promotion of Cancer Research.
1990	Fellowship from the "Yamagiwa-Yoshida Memorial International Cancer Study Grant" by the International Union Against Cancer (UICC).

**Annex 4. Research Grants**

Funding Agencies: Telethon, NATO, Peugeot Italia, Italian Ministry of Education, Cassa di Risparmio Foundation.

**Annex 5. External referee for the international scientific journals:**

- Journal of virology- Virology - Journal of microbiology - Biochemical Journal - Journal of glycobiology - Journal of Biological Chemistry - Journal of Neurochemistry - Journal of Cellular Physiology - FASEB Journal - Medicinal Chemistry – Human Molecular Genetics – Bone – Plos One.

**Annex 6. Professional Societies:**

1988- 2013	<i>Italian Society for Biochemistry.</i>
1991- 1995	<i>International Union Against Cancer (Geneva).</i>
2003- 2010	<i>American Society for Biochemistry and Molecular Biology.</i>

