



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Erich Piovan**  
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E-mail erich.piovan@unipd.it  
Nationality Italian  
Date of birth 12 September 1974  
Gender Male

### Work experience

Dates	September 2005-October 2008
Occupation or position held	Post-doctoral fellow
Main activities and responsibilities	As a post-doctoral fellow at the Institute for Cancer Genetics (ICG), under the supervision of Prof. Riccardo Dalla-Favera (Columbia University) and guidance from Dr. Wei Gu (Columbia University), I participated in projects aiming at defining a novel non transcriptional function for the BCL6 oncogene and the mechanisms responsible for the pathological co-expression of BCL2 and BCL6 in human diffuse Large B cell lymphomas (DLBCL). During this period I acquired excellent expertise in protein biochemistry and in particular in protein complex purifications through tandem affinity purification.
Name and address of employer	Riccardo Dalla Favera, ICRC, 1130 St Nicholas Avenue, New York
Dates	November 2008-August 2011
Occupation or position held	Post-doctoral research scientist
Main activities and responsibilities	Joining Dr. Adolfo Ferrando's laboratory (Columbia University, ICG) has allowed me to obtain a strong background on the cellular and molecular biology of T-cell lymphoblastic leukemia. Here, I have contributed to the identification of genes and pathways that modulate the glucocorticoid response and to design strategies to overcome glucocorticoid resistance in the effort to improve treatment outcome in lymphoid tumors.
Name and address of employer	Adolfo Ferrando, ICRC, 1130 St Nicholas Avenue, New York
Dates	October 2011-to date
Occupation or position held	Ricercatore (Associate Research Scientist), Lab Head
Main activities and responsibilities	Elucidating the role of calcineurin/NFAT activation in leukemogenesis
Name and address of employer	Prof. R. Rizzuto (Rettore dell'Università di Padova)
Dates	December 2011-March 2012
Occupation or position held	Visiting Scientist in Dr. Adolfo Ferrando's Laboratory (Columbia University)
Main activities and responsibilities	Project title: "Role of AKT inhibition in the treatment of glucocorticoid resistant leukemia".
Name and address of employer	Adolfo Ferrando, ICRC, 1130 St Nicholas Avenue, New York

### Education and training

Dates 1992-1999  
Title of qualification awarded Medical Degree, University of Padova, 110/110 cum laude

Dates 1999-2003  
 Title of qualification awarded Post graduate specialization in Oncology (Specializzazione in Oncologia), University of Padova, 70/70 cum laude

Date 2003-2007  
 Title of qualification awarded PhD in Oncology (Dottorato di Ricerca in Oncologia), University of Padova

Principal subjects/occupational skills covered During my PhD training in Prof. Alberto Amadori's laboratory ( University of Padova; Italy), I worked on numerous projects ranging from highly immunological studies to cancer related topics. I have contributed to determining the role of Epstein Barr virus (EBV) reactivation and *de novo* infection of B lymphocytes to tumor outgrowth in Severe Combined Immunodeficient (SCID) mice injected with human peripheral blood mononuclear cells (hu/SCID), a relevant B lymphomagenesis model (Leukemia 2003). I subsequently went on to study the role of chemokines and chemokine receptors in the pathogenesis of human B cell lymphomas which arise in immunodeficient mice (hu/SCID lymphomas), demonstrating the importance of the CXCL12/CXCR4 axis in lymphoma generation in this experimental model (Blood 2005). Stemming from these observations, I went on to dissect the role of hypoxia in the regulation of the CXCL12/CXCR4 axis in malignant B cells (Cancer Res 2007).

**Additional work activities** June 2013 onwards  
 Became a doctor operating within the Italian national health service -Molecular Immunology and Oncology Diagnostic Unit of the Venetian Oncological Institute (I.R.C.C.S-IOV) of Padova. Main activity regards the evaluation of NOTCH1 mutations in chronic lymphocytic leukemia patients.

**Tutoring and Teaching** Tutor of three PhD students : XXVIII, XXX, XXXII cycle of the PhD course [Dottorato di Ricerca in Oncologia e Oncologia Chirurgica (PhD course in Oncology and Surgical Oncology)/ currently Dottorato di Ricerca in Oncologia Clinica Sperimentale e Immunologia] held at the University of Padova, Padova, Italy. Teacher of the course "Immunologia e Immunopatologia del cavo orale-Immunology and Immunopathology of the oral cavity" ( 4CFU) for the School of Dentistry of Padova University from 2013.

**Financial Grants** Collaborator in numerous Grants: Ricerca di Ateneo-2011-CPDA#129789 with title "Involvement of NOTCH1-regulated microRNAs and their targets in T-cell transformation"; AIRC MFAG #13053 with title- "Mechanisms of leukemogenesis induced by loss of function of WT1" and AIRC IG#14256 with title "Role of microRNAs and their targets downstream of NOTCH1 activation in T-ALL: implications for therapeutic strategies".  
 Principal investigator of the grants: Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR) Ex60% -PRAT 2015 (CPDA #152403) with titles "Targeting the Calcineurin-GSK3 axis in T-cell lymphoblastic leukemia" and "Role of constitutive calcineurin activation in the pathogenesis of T cell acute lymphoblastic leukemia (T-ALL)".

**Referee activity** Referee for Dutch Foundation against cancer/ Stichting tegen Kanker; Research Foundation-Flanders (Fonds Wetenschappelijk Onderzoek-Vlaanderen, FWO) and the journals Leukemia, Haematologica, Oncotarget.

**Personal skills and competences**

Mother tongue(s) **Italian, English**

Other language(s)  
 Self assessment

Self-assessment\*

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
A2	A2	A2	A2		A2
A2	A2	A1	A2		A1

**German**  
**Afrikaans**

(\*) [Common European Framework of Reference for Languages](#)

Computer skills and competences

I have good knowledge of the most frequently used computer programs used for word processing (Microsoft word), analysing DNA sequences (Chromas, Finch TV), designing primers (Primer 3), analysing drug interactions (CalcuSyn), graphic programs (Corel Draw, Photo Shop, Illustrator, ImageJ), spread sheets (Microsoft Excell, Sigma-plot), programs used for analysing Flow cytometry data (Flowjo).

Other skills and competences

I am particularly keen on practising sports like Tennis, table tennis and Soccer

Driving licence

I hold a B category Drivers Licence

### **Additional information**

Reference contacts:

1) Name: **Amadori Alberto**

Title: Professor

Dept: IOV (Istituto Oncologico Veneto),  
University of Padua , Italy

Phone: +39 049 8215891

E-mail: [albido@unipd.it](mailto:albido@unipd.it)

2) Name: **Adolfo Ferrando**

Title: Professor

Dept: Institute for Cancer Genetics,  
Columbia University, New York

Phone: 212-851-4611

E-mail: [af2196@columbia.edu](mailto:af2196@columbia.edu)

3) Name: **Riccardo Dalla-Favera**

Title: Professor & Director, Institute for Cancer Genetics  
Uris Professor of Pathology

Dept: Institute for Cancer Genetics,  
Columbia University, New York

Phone: 212-851-5273

E-mail: [rd10@columbia.edu](mailto:rd10@columbia.edu)

### **Annexes**

Please find below a list of my publications and presentations at national/international congresses

## List of Publications

1. Bongiovanni D, Saccomani V, **Piovan E.** (2017). Aberrant Signaling Pathways in T-Cell Acute Lymphoblastic Leukemia. *Int J Mol Sci.* 2017 Sep 5;18(9). pii: E1904. doi: 10.3390/ijms18091904. Review.
2. Tosello V., Saccomani V., Yu J., Bordin F., Amadori A., **Piovan E** (2016). Calcineurin complex isolated from T-cell acute lymphoblastic leukemia (T-ALL) cells identifies new signaling pathways including mTOR/AKT/S6K whose inhibition synergize with Calcineurin inhibition to promote T-ALL cell death. *ONCOTARGET*, ISSN: 1949-2553, doi: 10.18632/oncotarget.9933
3. Tosello V, Bordin F, Yu J, Agnusdei V, Indraccolo S, Basso G, Amadori A, **Piovan E** (2015). Calcineurin and GSK-3 inhibition sensitizes T-cell acute lymphoblastic leukemia cells to apoptosis through X-linked inhibitor of apoptosis protein degradation. *LEUKEMIA*, ISSN: 0887-6924, doi: 10.1038/leu.2015.335
4. **Piovan E**, Yu J, Tosello V, Herranz D, Ambesi-Impombato A, Da Silva AC, Sanchez-Martin M, Perez-Garcia A, Rigo I, Castillo M, Indraccolo S, Cross JR, de Stanchina E, Paietta E, Racevskis J, Rowe JM, Tallman MS, Basso G, Meijerink JP, Cordon-Cardo C, Califano A, Ferrando AA. Direct reversal of glucocorticoid resistance by AKT inhibition in acute lymphoblastic leukemia. *Cancer Cell.* 2013 Dec 9;24(6):766-76. doi: 10.1016/j.ccr.2013.10.022. Epub 2013 Nov 27.
5. Saito M, Novak U, **Piovan E**, Basso K, Sumazin P, Schneider C, Crespo M, Shen Q, Bhagat G, Califano A, Chadburn A, Pasqualucci L, Dalla-Favera R. BCL6 suppression of BCL2 via Miz1 and its disruption in diffuse large B cell lymphoma. *Proc Natl Acad Sci U S A.* 2009 Jul 7;106(27):11294-9. Epub 2009 Jun 23.
6. Tosello V, Zamarchi R, Merlo A, Gorza M, **Piovan E**, Mandruzzato S, Bronte V, Wang X, Ferrone S, Amadori A, Zanovello P. Differential expression of constitutive and inducible proteasome subunits in human monocyte-derived DC differentiated in the presence of IFN-alpha or IL-4. *Eur J Immunol.* 2009 Jan;39(1):56-66
7. Macor P, Tripodo C, Zorzet S, **Piovan E**, Bossi F, Marzari R, Amadori A, Tedesco F. In vivo targeting of human neutralizing antibodies against CD55 and CD59 to lymphoma cells increases the antitumor activity of rituximab. *Cancer Res.* 2007 Nov 1;67(21):10556-63.
8. **Piovan E**, Tosello V, Indraccolo S, Masiero M, Persano L, Esposito G, Zamarchi R, Ponzoni M, Chieco-Bianchi L, Dalla-Favera R, Amadori A., Differential regulation of hypoxia-induced CXCR4 triggering during B-cell development and lymphomagenesis. *Cancer Res.* 2007 Sep 15;67(18):8605-14.
9. Indraccolo, S., Stievano L., Minuzzo S., Tosello V., Esposito G., **Piovan E.**, Zamarchi R., Chieco-Bianchi L., and Amadori A., Interruption of tumor dormancy by a transient angiogenic burst within the tumor microenvironment. *Proc Natl Acad Sci U S A.* 2006 Mar 14; 103(11):4216-21
10. Airoidi, I., Raffaghello L., **Piovan E.**, Cocco C., Carlini B., Amadori A., Corrias M.V., and Pistoia V., CXCL12 does not attract CXCR4+ human metastatic neuroblastoma cells: clinical implications. *Clin Cancer Res.* 2006 Jan 1;12(1):77-82.
11. Minuzzo, S., Indraccolo, S., Tosello, V., **Piovan, E.**, Cabrelle, A., Trentin, L., Semenzato, G. and Amadori A., Heterogeneous intracellular expression of B-cell receptor components in B-cell chronic lymphocytic leukaemia (B-CLL) cells and effects of CD79b gene transfer on surface immunoglobulin levels in a B-CLL-derived cell line. *Br J Haematol.* 2005 Sep;130(6):878-89.
12. Minuzzo, S., Indraccolo, S., Tosello, V., **Piovan, E.**, Cabrelle, A., Trentin, L., Semenzato, G. and Amadori A., CD40 activation of B-CLL cells is associated with augmented intracellular levels of CD79b and increased BCR expression in a subset of patients. *Leukemia.* 2005 Jun;19(6):1099-101.
13. **Piovan, E.**, Tosello, V., Indraccolo, S., Cabrelle, A., Baesso, I., Trentin, L., Zamarchi, R., Tamamura, H., Fujii, N., Semenzato, G., Chieco-Bianchi, L. and Amadori, A., Chemokine receptor expression in EBV-associated lymphoproliferation in hu/SCID mice: implications for CXCL12/CXCR4 axis in lymphoma generation. *Blood* 2005 Feb 1;105(3):931-939.
14. Stievano, L., **Piovan, E.** and Amadori, A., C and CX3C Chemokines: Cell sources and physiopathological implications. *Crit Rev Immunol* 2004;24(3):205-28.

15. **Piovan, E.**, Bonaldi, L., Indraccolo, S., Tosello, V., Menin, C., Comacchio, F., Chieco-Bianchi, L. and Amadori, A., Tumor outgrowth in peripheral blood mononuclear cell-injected SCID mice is not associated with early Epstein-Barr virus reactivation. *Leukemia* 2003. 17: 1643-1649.
16. Indraccolo, S., Habeler, W., Tisato, V., Stievano, L., **Piovan, E.**, Tosello, V., Esposito, G., Wagner, R., Uberla, K., Chieco-Bianchi, L. and Amadori, A., Gene transfer in ovarian cancer cells: a comparison between retroviral and lentiviral vectors. *Cancer Res* 2002. 62: 6099-6107.
17. Indraccolo, S., Minuzzo, S., Zamarchi, R., Calderazzo, F., **Piovan, E.** and Amadori, A., Alternatively spliced forms of Igalpha and Igbeta prevent B cell receptor expression on the cell surface. *Eur J Immunol* 2002. 32: 1530-1540.1530-1540.

#### List of oral presentations and abstracts presented in national and international meetings

1. Tosello V., Saccomani V., Jiyang Y., Bordin F., Amadori A., **Piovan E.** CALCINEURIN COMPLEX ISOLATED FROM T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA (T-ALL) CELLS IDENTIFIES NEW SIGNALING PATHWAYS WHOSE INHIBITION SYNERGIZE WITH CALCINEURIN INHIBITION TO PROMOTE T-ALL CELL DEATH .European Hematology Association, 21st EHA Congress, Copenhagen, June 8-12, 2016.
2. **Piovan E.** Targeting the GSK-3-Calcineurin axis in T-cell acute lymphoblastic leukemia. T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA (T-ALL): FROM IN VIVO MODELS TO TARGETED THERAPY “. Padova, 26 Maggio 2014.
3. **Piovan E.** Reversal of glucocorticoid resistance by AKT inhibition. “Biology of Leukemia and the Bone Marrow Niche: a Long and Winding Road towards translational research”. Progetto di Eccellenza 2008. Padova, 17 April 2012.
4. **Piovan E.**, Jiyang Y, Real P.J., Gawinowicz, M.A., Califano A., Ferrando A. Oncogenic AKT signaling negatively regulates glucocorticoid receptor function to promote glucocorticoid resistance in T cell acute lymphoblastic leukemia. 52nd ASH annual meeting. Orlando, December 4-7, 2010.
5. **Piovan E.**, Saito M., Basso K., Novak U., Shen Q., Pasqualucci L., Dalla-Favera R. Direct Transcriptional Repression of BCL2 by BCL6 in Germinal Centre B Cells and Its Disruption in B Cell Lymphomas with BCL2 Locus Alterations. 50th ASH annual meeting. San Francisco, December 6-9, 2008.
6. **Piovan E.**, Tosello V., Indraccolo S., Zamarchi R., Chieco-Bianchi L., Amadori A. Hypoxia upregulates CXCR4 surface expression in B lymphoma cells but determines a functional dichotomy ranging from receptor desensitisation to receptor hyperreactivity. 4° National Conference SIICA. Brescia, June 8-11, 2005.
7. **Piovan E.**, Indraccolo S., Tosello V., Zamarchi R., Cabrelle A., Baesso I., Trentin L., Semenzato G., Chieco-Bianchi L., Amadori A. Chemokine receptor expression in Epstein-Barr virus (EBV)-associated lymphoproliferative disease in the SCID mouse: implications for CXCL12/CXCR4 axis in lymphoma generation. 46th SIC Annual Meeting. Pisa, October 24-27, 2004.
8. **Piovan E.**, Indraccolo S., Tosello V., Zamarchi R., Cabrelle A., Baesso I., Trentin L., Semenzato G., Chieco-Bianchi L., Amadori A. Chemokine receptor expression in Epstein-Barr virus (EBV)-associated lymphoproliferative disease in the SCID mouse: implications for CXCL12/CXCR4 axis in lymphoma generation. 3° National Conference SIICA. Ischia, April 24-27, 2004.
9. **Piovan E.**, Indraccolo S., Tosello V., Cabrelle A., Baesso I., Trentin L., Semenzato G., Chieco-Bianchi L., Amadori A. Chemokine receptor expression in Epstein-Barr virus (EBV)-associated lymphoproliferative disease in the SCID mouse: implications for CXCL12/CXCR4 axis in lymphoma generation. 45° Annual Meeting of the Italian Cancer Society. Bergamo, November 9-12, 2003.
10. **Piovan E.**, Indraccolo S., Tosello V., Cabrelle A., Trentin L., Chieco-Bianchi L., Amadori A. Chemokine receptor expression in Epstein-Barr virus (EBV)-associated lymphoproliferative disease in the SCID mouse: implications for SDF-1/CXCR4 axis in lymphoma generation. Joint Meeting: 2nd National Conference SIICA, May 28-31, Verona, I, 2003.
11. Tosello V., Gorza M., Celi E., Mandruzzato S., **Piovan E.**, Wang X., Ferrone S., Zanovello P. Cytofluorimetric analysis of proteasome component expression in human dendritic cells and in melanoma cell lines. Joint Meeting: 2nd National Conference SIICA, May 28-31, Verona, I, 2003.
12. Minuzzo S., Indraccolo S., **Piovan E.**, Tosello V., Cabrelle A., Trentin L., Amadori A. Dychotomy between surface and intracellular expression of B cell receptor components in B-CLL cells and lack of rescue of the normal B cell phenotype by Igβ gene transfer. Joint Meeting: 2nd National Conference SIICA, May 28-31, Verona, I, 2003.

13. Indraccolo S., Esposito G., Gola E., Habeler W., Minuzzo S., **Piovan E.**, Roni V., Stievano L., Tisato V., Tosello V., Chieco-Bianchi L., Amadori A. The cancer cell and its micro-environment: a double-faced interaction. Joint Meeting: 2nd National Conference SIICA, May 28-31, Verona, I, 2003.
14. **Piovan E.**, Indraccolo S., Tosello V., Trentin L., Cabrelle A., Baesso I., Miorin M., Semenzato G., Chieco-Bianchi L., Amadori A. Chemokine receptor expression in Epstein-Barr virus (EBV)-associated lymphoproliferative disease in the SCID mouse: implications for SDF-1/CXCR4 axis in lymphoma generation. EURESCO Conference on B cells in Health and Disease, May 10-15, Maratea, I, 2003.
15. Indraccolo S., Habeler W., Tisato V., Stievano L., **Piovan E.**, Tosello V., Esposito G., Chieco-Bianchi L., Amadori A. Gene transfer in ovarian cancer cells: a comparison between retroviral and lentiviral vectors. New Trends in Cancer Therapy, December 3-6, Rovigo, Italy, 2002.
16. Indraccolo S., Habeler W., Tisato V., Stievano L., **Piovan E.**, Tosello V., Esposito G., Chieco-Bianchi L., Amadori A. Gene transfer in ovarian cancer cells: a comparison between retroviral and lentiviral vectors. 44° Symposium of the Italian Cancer Society. Genova, October 27-30, 2002.
17. Indraccolo S., Tisato V., Habeler W., Stievano L., **Piovan E.**, Tosello V., Chieco-Bianchi L., Amadori A. Gene transfer in ovarian cancer cells: a comparison between retroviral and lentiviral vectors. X Meeting of the European Society of Gene Therapy, October 13-16, Juan-Les-Pins, France, 2002.
18. Minuzzo S., **Piovan E.**, Indraccolo S., Zamarchi R., Habeler W., Chieco-Bianchi L., Amadori A. Alternatively spliced forms of Ig $\alpha$  and Ig $\beta$  mRNAs encode proteins that compete for B cell receptor formation and IgM expression on the B lymphocyte surface. SIICA meeting. May 7-11, Montecatini Terme, I, 2002.
19. Indraccolo S., **Piovan E.**, Minuzzo S., Zamarchi R., Habeler W., Chieco-Bianchi L., Amadori A. Alternatively spliced forms of Ig $\alpha$  and Ig $\beta$  mRNAs encode proteins that compete for B cell receptor formation and IgM expression on the B lymphocyte surface. International Symposium on Leukemia, Lymphoma and AIDS: Pathogenesis and Treatment, October 7-11, Abano Terme-Venice, I, 2001.
20. Indraccolo S., **Piovan E.**, Minuzzo S., Zamarchi R., Habeler W., Chieco-Bianchi L., Amadori A. Alternatively spliced forms of Ig $\alpha$  and Ig $\beta$  mRNAs encode proteins that compete for B cell receptor formation and IgM expression on the B lymphocyte surface. EURESCO Conference on B cells in Health and Disease, May 12-17, Maratea, I, 2001.
21. Indraccolo S., Minuzzo S., **Piovan E.**, Zamarchi R., Habeler W., Chieco-Bianchi L., Amadori A. Alternatively spliced forms of Ig $\alpha$  and Ig $\beta$  mRNAs encode proteins that compete for B cell receptor formation and IgM expression on the B lymphocyte surface. Cell signalling in the immune system: receptors, coreceptors and cytokines, June 19-20, Genua, I, 2000.
22. **Piovan E.**, Indraccolo S., Minuzzo S., Zamarchi R., Habeler W., Chieco-Bianchi L., Amadori A. Alternatively spliced forms of Ig $\alpha$  and Ig $\beta$  mRNAs encode proteins that compete for B cell receptor formation and IgM expression on the B lymphocyte surface. Joint meeting: SI-SIIC, June 7-10, Ferrara, I, 2000.

Date: 07/09/2017

Erich Piovan