

Curriculum Vitae - Prof. Angelo Luigi Vescovi

Name	Position Title	Date of Birth
Angelo Luigi Vescovi	<p>Associate Professor University of Bicocca, Milan, Italy</p> <p>Department Head, Institute for Tissue Engineering, Ospedale Niguarda, Milan</p> <p>Scientific Director, IRCSS, Casa Sollievo della Sofferenza, San Giovanni Rotondo (FG)</p> <p>Founder and Chief Strategy Officer StemGen Spa, Milan Italy</p> <p>Founder and Chief Strategy Officer Hyperstem SA, Lugano, CH</p> <p>President of Scientific and Ethics committee Associazione Revert Onlus</p>	April 24, 1962

EDUCATION

Institution and Location	Degree	Year Referred	Field of Study
Industrial & Technical State Institute, Milan	B.S.	1981	Industrial Chemistry
State University of Milan, Milan, Italy	Ph.D.	1987	Molecular Pharmacology
University of Calgary, Alberta, Canada	Post-Doc	1991-1993	Cell Biology & Developmental Neuroscience

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PROFESSIONAL EXPERIENCE

- 1985-1986 **Awarded with a fellowship** by the National Neurological Institute "C.Besta", Milan, Italy.
- 1988-1990 **Awarded with a fellowship** by the National Neurological Institute "C.Besta", Milan, Italy.
- 1993/1996 **Supervisor** of the project of the Italian Ministry of Health: "*Unlimited culturing and banking of multipotential stem cells of the human central nervous system*".
- 1996-1999 **Supervisor** of the project of the Italian Ministry of Health: "*Autologous transplantation for the therapy of Parkinson's disease*".
- 1996/1997 **Adjunct Professor**, Department of Physiology, University of Milan; Course of Physiology I.
- 1995-1998 **Vice-Director of Research** Neurospheres Ltd., Dept of Pathology, University of Calgary, Alberta, Canada.
- 1999 **Head of the Laboratory of Cellular Neuropharmacology**, National Neurological Institute, Milan, Italy
- 2000-2002 **Adjunct Professor**, Department of Physiology, "Universita' Vita Salute", HSR, Milan, Italy.
- Coordinator of the National Project of the Ministry of Health:** "*Characterization and plasticity of somatic stem cells for the therapy of human diseases*".
- Coordinator of the National Project of the Ministry of Health:** "*Neural stem cells and gene therapy for the cure of Alzheimer's Disease*".
- 2002 **Member of the National Committee on Stem Cells** of the Italian Ministry of Health.
- Consultant of the British Committee on Stem Cells** of the House of Lords of England.
- Member of the Committee on Stem Cells** of the Pontifical State of the Vatican.
- 2002 to date **Associate Professor of Cell Biology**, University of Milan-Bicocca, Milan
- 2004 to 2019 **Scientific Director** of Associazione Revert Onlus, Milan
- 2020 to date **President of the Scientific and Ethics committee**, Associazione Revert Onlus , Milan Italy
- 2003-2005 **Director of Research of ConStem:** Italian Consortium for Stem Cell Research
- Co-director Stem Cell Research Institute**, Fondazione San Raffaele, Milan.
- 2005 to date **Founder and Chief Systrategy Officer** of StemGen Spa, a biotech company in the Neuroncology area
- 2005 to 2007 **Adjunct Professor of Cell Biology**, Queensland Brain Institute, Brisbane, Australia
- 2007 to 2019 **Scientific Director**, Neural Stem Cells Bank, Terni
- 2008 to date **Department Head**, Institute for Tissue Engineering, Ospedale Niguarda, Milan
- 2010 to date **Scientific Director**, IRCSS, Casa Sollievo della Sofferenza, San Giovanni Rotondo

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Scientific Director, Istituto CSS-Mendel, Rome.

2015 to date **Founder and Chief Sytrategy Officer** of Hyperstem SA,CH a biotech company in the Neuroncology area

2019 to 2020 **Full Affiliate Professor of Neurology**, Houston Methodist Institute for Academic Medicine, Huston USA

ADDITIONAL ACTIVITIES

2006 **Authored the book** "La cura che viene da dentro" ed. Mondadori EAN 9788804553540
2009 **Appeared in the Movie** "Terra Madre" by Ermanno Olmi

2003-2011 **Appered in Numerous TV and Radio shows:** La Sfera (la 7), Porta a Porta (RAI1), Costanzo Show (Canale 5), TG33 Medicina (TG2), TG Leonardo Scienza (TG3), Primo Piano (Rai 1), BAOBAB (Radio 1), Zapping (Radio 1) and more.

PROFESSIONAL DUTIES

1987 to date More than 200 Oral and poster presentations at scientific international meetings

1996-to date Reviewer for scientific Journals including, among several: *Nature*, *Science*, *Development*, *Nature Medicine*, *Nature Neuroscience*, *Nature Biotechnology*, *Nature Methods*, *Nature Reviews Cancer*, *Journal of Neuroscience*, *Neuroscience*, *Stem Cells*, *JEM*, *Lancet*.

1998- to date Invited speaker at over 150 international scientific meetings

AWARDS AND HONORS

1990 **Award** of the Italian Association for Neurological Research (ARIN)

2000 **Honorary Fellow Panelist** of the World Economic Forum 2000 (Davos, Switzerland).

2001 **Award** of the Italian Association for Cancer Research (AIRC)

Speaker Emeritus at the National Academy of Sciences "dei Lincei"

Speaker Emeritus at the Pio Manzu' Foundation Worldwide Meeting: "*The Fire Within The Crystal*."

2000-2007 **Thre Times Paul Harris Fellow** Award of the Rotary Club International

2002 **Award of the Italian Life Science Association** for Scientific Achievements

2003 **Speaker Emeritus** presenting on Somatic Stem Cells at the European Commission in Brussels.

2003 **Award of the Italian Life Science Association** for Scientific Achievements

2005 **Translational Research Excellence Award** of the Brain Tumor UK Association (Shared with Dr. F. Dimeco and S.Piccirillo)

2007 **Excellence Award of the Atena Foundation** for Research in Neuroncology

2008 **Excellence Award of the Italian Inter-Rotary** for Professional Accomplishments

2009 **Civic Award of the City of Milan "Golden Ambrogino"** for Outstanding professional accomplishments

2011 **Manfredi Civic Award** (Manfredonia, Foggia) for Scientific Accomplishments

2011 **Hotchkiss Brain Institute Neuroscience Award** of the University of Calgary, Canada, Neuroscience Alumnus of the Year

2012 **Excellence Award** of the ANMIL Foundation for Research on adult stem cells and the consequent results for ALS

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- 2017 **Edipo Re Award of the U. of Padova and Kip International School** – ONU for outstanding achievements in the field of human inclusion.
- 2017 Member of the **Pontifical Academy for Life** (*Pontificia Academia Pro Vita*)
- 2017 Member of the Scientific Committee of **Fondazione Istituto Insubrico Ricerca per la Vita**

Educational Activities

Curriculum and Course Development

- *Cell Homeostasis in somatic Tissues and stem cells*

The aim of this course is to extend and elaborate current notions on stem cells functions, focusing in particular on tissue homeostasis and repairing/regenerative mechanisms. In addition, the course will delineate limits and potentialities of stem cells in regenerative medicine, in order to enable students to develop an informed opinion on current innovative experimental therapies.

Throughout the classes, students will learn the molecular mechanisms and cell-to-cell interactions that enable stem cells to maintain the functional and cellular integrity of somatic tissues. In addition, the course will evaluate how the unique functional properties endowed with stem cells, render these cells potential valuable tools for regenerative medicine approaches and for *in vitro* disease modelling.

Comprehensive knowledge of stem cell field: definition, categories, functional characteristics, definition. General mechanisms and models describing cell homeostasis in somatic tissues. Description of the different stem cells type, considering their developmental origin, their role in tissue homeostasis and potential therapeutic application

- *Cell Biology*

The aim of the course is to give an overview of the main cell-to-cell signaling pathways and to analyze how these pathways are integrated within complex organisms to control fundamental cell functions. This course will give to the students the molecular knowledge for the comprehension of physiological mechanisms that will be analyzed in the specific exams.

The course will analyze the molecular mechanisms and signals involved in cell-to-cell communications. The signals involved the control of cell migration, differentiation, proliferation and apoptosis will be analyzed with more details. Finally, some of the molecular alterations involved in tumorigenic transformation of the cells will be analyzed.

Teaching - List of courses from 2003 to date

- 2013 Cell Homeostasis in somatic Tissues and stem cells Bio/13
- 2013 Cell Biology Bio/13 Biological Science
- 2012 Cell Biology Bio/13 Biological Science
- 2012 Cell Homeostasis in somatic Tissues and stem cells Bio/13 Biology
- 2011 Biologia cellulare 2 Bio/13 Biological Sciences
- 2011 Fondamenti di biologia cellulare Bio/13 Biology
- 2010 Cell Biology 2 Bio/13 Biological Science
- 2010 Fondamenti di biologia cellulare Bio/13 Biology
- 2009 Fondamenti di biologia cellulare Bio/13 Biology
- 2009 Cell Biology 2 Bio/13 Biological Science
- 2008 Cell Biology 2 Bio/13
- 2008 Cell Biology 1 Bio/13
- 2007 Cell Biology 2 Bio/13
- 2007 Cell Biology 1 Bio/13
- 2006 Cell Biology 2 Bio/13
- 2006 Cell Biology 1 Bio/13
- 2005 Cell Biology2 Bio/13
- 2005 Cell Biology 1 Bio/13
- 2004 Cell Biology 2 Bio/13

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2004 Cell Biology 1 Bio/13

2003 Cell Biology 2 Bio/13

2003 Cell Biology 1 Bio/13

Member of PhD Boards:

Year: 2012

Cycle: 28

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2012

University: Università degli Studi di PERUGIA

Year: 2009

Cycle: 25

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2009

University: Università degli Studi di MILANO-BICOCCA

Year: 2009

Cycle: 25

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2009

University: Università degli Studi di PERUGIA

Year: 2010

Cycle: 26

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2010

University: Università degli Studi di MILANO-BICOCCA

Year: 2011

Cycle: 27

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2011

University: Università degli Studi di PERUGIA

Year: 2007

Cycle: 23

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2007

University: Università degli Studi di PERUGIA

Year: 2011

Cycle: 27

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2011

University: Università degli Studi di MILANO-BICOCCA

Year: 2008

Cycle: 24

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2008

University: Università degli Studi di MILANO-BICOCCA

Year: 2004

Cycle: 20

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2004

University: Università degli Studi di PERUGIA

Year: 2003

Cycle: 19

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2003

University: Università degli Studi di PERUGIA

Year: 2006

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Cycle: 22

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2006

University: Università degli Studi di PERUGIA

Year: 2013

Cycle: 29

PhD Course: MEDICINA SPERIMENTALE E RIGENERATIVA-2013

University: Università degli Studi di FOGGIA

Year: 2010

Cycle: 26

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2010

University: Università degli Studi di PERUGIA

Year: 2014

Cycle: 30

PhD Course: MEDICINA SPERIMENTALE E RIGENERATIVA-2014

University: Università degli Studi di FOGGIA

Year: 2007

Cycle: 23

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2007

University: Università degli Studi di MILANO-BICOCCA

Year: 2008

Cycle: 24

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2008

University: Università degli Studi di PERUGIA

Year: 2015

Cycle: 31

PhD Course: MEDICINA SPERIMENTALE E RIGENERATIVA-2015

University: Università degli Studi di FOGGIA

Year: 2005

Cycle: 21

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2005

University: Università degli Studi di MILANO-BICOCCA

Year: 2004

Cycle: 20

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2004

University: Università degli Studi di MILANO-BICOCCA

Year: 2005

Cycle: 21

PhD Course: BIOLOGIA E BIOTECNOLOGIA MOLECOLARE-2005

University: Università degli Studi di PERUGIA

Year: 2006

Cycle: 22

PhD Course: MEDICINA TRASLAZIONALE E MOLECOLARE (DIMET)-2006

University: Università degli Studi di MILANO-BICOCCA

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Clinical Practice, Interests, and Accomplishments

Clinical Trials:

- EudraCt 2015-004855-37

Title: Safety Study of Human Neural Stem Cells Injections for Secondary Progressive Multiple Sclerosis Patients (NSC-SPMS)

- EudraCt 2014-003405-15

Title: A Dose Escalation Phase I Study Of Human- Recombinant Bone Morphogenetic Protein 4 Administrated Via CED In GBM Patients

- EudraCT 2009-014484-39

Title: Human Neural Stem Cell Transplantation in Amyotrophic Lateral Sclerosis (ALS)

Research Grants Awarded

Active Grants

"Deciphering the pleiotropic effects of LIF on human glioblastoma stem cells for putative pro-differentiation therapies"
Project n° IG-22027 Total Amount 765.000,00 euro Finance Corporation: A.I.R.C.

"PIATTAFORMA BIOTECH 4.0" MISE INDUSTRIA 4.0- Bando CIS Capitanata Total amount 36.000.000,00 euro
Finance corporation : Ministero dello Sviluppo Economico

"H-STEER" presentata dalla società MASMEC S.p.A. ai sensi del DM 5 marzo 2018 e del successivo decreto direttoriale del 27 settembre 2018 - **Fondo crescita sostenibile** – Settore applicativo "Scienze della vita"

Data di approvazione: 05 agosto 2019

Ente finanziatore: Ministero dello Sviluppo Economico

Importo: costo totale progetto euro 700.250,00 (costo finanziato dal MISE 329.117,50)

Completed Grants

"Institute for Stem-cell Biology, Regenerative Medicine and Innovative Therapies (ISBReMIT) Project ID 5346 Total amount: 13.798.052,03 euro Finance corporation: MIUR

"Wnt5a as a key regulator of invasion in human GBM: a study on autocrine, glioma-initiating, stem-like cells. Project N° IG10141 Total amount: 450.000,00 euro Finance corporation: A.I.R.C.

"Enriching Human Glioma Cancer Stem Cells (GSC). New GSC-Specific regulators. Combinatorial Therapy by Ephrins and BMP4" Project N° IG14368
Total amount: 464.999,01 euro Finance corporation: A.I.R.C.

"Cellule staminali di glioblastoma umano per lo sviluppo di marcatori diagnostici, prognostici e terapie innovative".
Project n° RBAP10KJC5_002 Total amount: 768.962,00 euro
Finance corporation: MIUR FIRB Accordi di programma

"Cis-regulatory logic of the transcriptional control in neural stem cells" CISSTEM
Project N° 223210 Total Amount: 552.400,00
Finance corporation: CEE FP7-HEALTH-2007-B

"PLURIGENES" Project N° LSHG-CT-2005-018673 Finance corporation: CEE FP6

"Differentiation therapy in human glioblastoma cancer stem cells: a study conducive to phase I clinical trial with bone morphogenetic proteins" Project N°: RF-INN-2008-1220368

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Total amount: 184.086,43 euro Finance corporation: Ministero della Salute - Bando cellule staminali

“REGULATORY MECHANISMS AND THERAPEUTIC TARGETING OF BRAIN CANCER STEM CELLS”²

Grant number: 220020207 Total amount: 325.000,00 \$

Finance corporation: Hugo W. Moser Research institute at Kennedy Krieger Inc.

Title: P.I.S.T.A. Piattaforma Interdisciplinare Staminali e Terapia Antitumorale

Grant number: 4452 Total amount: 821.578,60 Euro Finance corporation: Regione Lombardia -Bando MD2007

“Tumor Stem Cell-Based Drug Discovery for Adult and Pediatric Glioma”

Total amount: 395.000,00 \$ Finance corporation: JS McDonnell Foundation

PATENTS

1. US6897060 “**Composition comprising multipotent neural stem cells for generation of hematopoietic cells**”
Inventors: Christopher R. Bjornson, Rod L. Rietze, Brent A. Reynolds, **Angelo L. Vescovi**
2. US20100136081 “**Hyaluronic acid derivative and neural stem cells for SCI and PNT regeneration**”
Inventors: Alessandra PAVESIO, Angelo Vescovi, Fabrizio Gelain, Maurizio Verga
3. US7204979 “**Generation of hematopoietic cells from multipotent neural stem cells**” **Inventors:** Christopher R. Bjornson, Rod L. Rietze, Brent A. Reynolds, Angelo L. Vescovi
4. US6638501 “**Use of multipotent neural stem cell progeny to augment non-neural tissues**”
Inventors: Christopher R. Bjornson, Rod L. Rietze, Brent A. Reynolds, Angelo L. Vescovi
5. US20100167999 “**Inhibition of the tumorigenic potential of tumor stem cells by LIF and BMPS**”
Inventors: Angelo Luigi Vescovi, Brent Allen Reynolds
6. US 2012/0083454 A1 “**EPH receptor expression in tumor stem cells**” **Inventors:** Angelo Luigi Vescovi, Elena Binda
7. PCT/IB2010/051700 “**Novel self-assembling peptides and their use in the formation of hydrogels**” **Inventors:** Angelo Luigi Vescovi, Fabrizio Gelain
8. PCT/EP2011/053838 “**Functionalized biomaterials for tissue regeneration**” **Inventors:** Angelo Luigi Vescovi, Fabrizio Gelain
9. PCT/EP2013/074166 “**Method for the isolation for mammalian stem cells and uses thereof**” **Inventors:** Angelo Luigi Vescovi, Elena Binda
10. PCT/IB2015/002577 “**Methods and compositions for reducing growth, migration and invasiveness of brain cancer stem cells and improving survival of patients with brain tumors**”. Angelo Luigi Vescovi, Elena Binda

BIBLIOMETRIC HIRSCH (H) INDEX AND CITATIONS:

H-INDEX GOOGLE SCHOLAR: 68 CITATIONS: 29277 i10-index: 153

H-INDEX SCOPUS: 56 CITATIONS: 19794

PUBLICATIONS

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- neuroendocrinological aspects in migraine patients". **Cephalalgia** (1983). 3(1), 163-167.
- Parenti M, Flauto C, Parati EA, Vescovi AL, Groppetti A. "Manganese Neurotoxicity: Effects of L-dopa and Pargyline Treatments". **Brain Research** (1986). 367, 8-13. doi: 10.1016/0006-8993(86)91571-4
 - Parenti M, Tirone F, Flauto C, Parati EA, Vescovi AL, Groppetti A. "Effects of prolonged L-Dopa treatment on striatal dopamine receptors". In : "Modulation of central and peripheral transmitter function", G. Biggio et al. **Symposia in Neuroscience** (1986). Vol III, 117-124.
 - Parenti M, Flauto C, Parati EA, Vescovi AL, Groppetti A. "Differential effects of repeated treatment with L-dopa on Dopamine D1 or D2 receptors". **Neuropharmacology** (1986). 25(3), 331-334.
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 - Antozzi C, Mantegazza R, Pelucchetti D, Baggi F, Romagnoli P, Marconi M, Vescovi AL, Cornelio F. "Use of Immunoabsorbent Columns for Antiacetylcholine Receptor Antibody Removal From Plasma of Myasthenia Gravis Patients". **Plasma Therapy Transfusion Technology** (1988). 9, 73-75.
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19. Magistretti J, de Curtis M, Vescovi AL, Galli R, Gritti A. "Long-term survival of cortical neurones from adult guinea-pig maintained in low-density cultures". **Neuroreport** (1996). 7(10), 1559-1564.
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21. Arcangeli A, Faravelli L, Bianchi L, Rosati B, Gritti A, Vescovi AL, Wanke E, Olivetto M. "Soluble or Bound Laminin Elicit in Human Neuroblastoma Cells short- or Long-Term Potentiation of a K⁺ Inwardly Rectifying Current: Relevance to Neuritogenesis". **Cell Adhesion & Communication** (1996). 4(4-5), 369-385.
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