

Curriculum Vitae

Personal information

First name / Surname

Address

Mobile

E-mail

Nationality

Date of birth

Silvia Carla Armelloni

Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

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Occupation or position held

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Main activities and responsibilities

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Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

From 2008 to today

Associate Staff Scientist

Molecular characterization of neuron-like signaling activities in cultured primary podocytes, application of microelectrode arrays to studies of network activities

Fondazione D'Amico per la Ricerca sulle Malattie Renali
c/o Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Via Pace 9, Milan

Biomedical and clinical research

From 2007 to 2008

Research Assistant

Characterization of synaptic molecules in primary podocytes

Fondazione D'Amico per la Ricerca sulle Malattie Renali
c/o Nephrology Department, S. Carlo Borromeo Hospital, Via Pio II 3, Milan

Biomedical and clinical research

From 2004 to 2007

Research Assistant

Cellular and molecular evaluation of the role of clusterin in cultured podocytes

Fondazione D'Amico per la Ricerca sulle Malattie Renali
c/o Nephrology Department, S. Carlo Borromeo Hospital, Via Pio II 3, Milan

Biomedical and clinical research

From 1998 to 2004

Post-Doc Researcher

Characterization of the synaptic-like vesicles in podocytes: study of molecule Rab3A and of its specific effector rabphilin-3a; study of a mouse model of Rab3A-KO

Fondazione D'Amico per la Ricerca sulle Malattie Renali
c/o Nephrology Department, S. Carlo Borromeo Hospital, Via Pio II 3, Milan

Biomedical and clinical research

From 1997 to 1998

PhD thesis

Study of the proliferative and cytotoxic activity of oxidized LDL on human renal tubular cells in culture.

Fondazione D'Amico per la Ricerca sulle Malattie Renali
c/o Nephrology Department, S. Carlo Borromeo Hospital, Via Pio II 3, Milan

Biomedical and clinical research

From 1992 to 1997

Researcher

Realization and study of mouse model of glomerulonephritis induced by human IgM-IgG cryoglobulins

Name and address of employer	Fondazione D'Amico per la Ricerca sulle Malattie Renali c/o Nephrology Department, S. Carlo Borromeo Hospital, Via Pio II 3, Milan
Type of business or sector	Biomedical and clinical research
Dates	From 1990 to 1992
Occupation or position held	Clinical analysis
Main activities and responsibilities	Nephrological laboratory analysis
Name and address of employer	"Nuova Nefrologia" Associazione per l'Aggiornamento in Nefrologia e Metodiche Dialitiche.c/o Nephrology Department, Ospedale San Carlo Borromeo, Via Pio II 3, Milan
Type of business or sector	Clinical analysis
Dates	From 1989 to 1990
Occupation or position held	Researcher
Main activities and responsibilities	Immunological studies on human T-helper cells in vitro
Name and address of employer	Istituto Nazionale per lo Studio e la Cura dei Tumori, Immunology Laboratory, Università degli Studi di Milano, Via Venezian 1, Milan
Type of business or sector	Clinical research
Dates	From 1988 to 1989
Occupation or position held	Post-degree training
Main activities and responsibilities	Clinical-chemistry and microbiological analysis activity
Name and address of employer	Istituto Nazionale per lo Studio e la Cura dei Tumori, Clinical and microbiological analysis Division, Via Venezian 1, Milan
Type of business or sector	Clinical analysis
Dates	From 1986 to 1988
Occupation or position held	Pre master's degree training
Main activities and responsibilities	Behavioural and clinical studies on birds
Name and address of employer	Facoltà di Medicina e Chirurgia, Università degli Studi di Milano, Laboratory of Developmental Biology, Via Vanvitelli 32, Milan
Type of business or sector	Biological research
Education and training	
Dates	November 1998
Title of qualification awarded	Toxicology Graduation
Name and type of organisation providing education and training	Facoltà di Farmacologia, Università degli Studi di Milano , Milan
Dates	August 1997
Title of qualification awarded	Post-graduate school in "Water treatment and management "
Name and type of organisation providing education and training	C.F.P. Regione Lombardia "Vigorelli", Via Soderini 24, Milan
Dates	June 1992
Title of qualification awarded	First certificate in English
Name and type of organisation providing education and training	University of Cambridge, Local Examinations Syndicate Milan
Dates	October 1991
Title of qualification awarded	Professional Biology practice Qualification and registration on the "Ordine dei Biologi "
Name and type of organisation providing education and training	Università degli Studi di Milano, Milan
Dates	July 1988

Title of qualification awarded
Name and type of organisation
providing education and training

Master Degree in Biological Sciences

Università degli Studi di Milano, Milan

**Personal skills and
competences**

Mother tongue

Italian

Other language

English

Reading

good

Writing

good

Speaking

good

**Technical skills and
competences**

Cell culture of primary and immortalized renal glomerular and tubular cells, of neuronal cells and of human blood cells.

Histological and immunohistological techniques on frozen and paraffin embedded tissues and on fixed cells.

Molecular biology techniques: RNA and DNA extraction, PCR, Real time RT-PCR, RNA interference, SiRNA and plasmid transfection, Chromatin immunoprecipitation, protein extraction and separation, western blot analysis

Spectrophotometric Techniques.

Chromatography (HPLC)

Animal models: animal handling and removal of organs.

Electrophysiological methods: microelectrode array (MEA)

Immunological techniques: ELISA, in-cell ELISA, immunoprecipitation.

Blood and urinary chemistry analysis, urinary sediment analysis, clinical microbiological analysis.

Using software: Microsoft office, image processing, gel quantification, scientific databases.

Publications

1. Podocytes: recent biomolecular developments.

Armelloni S, Corbelli A, Giardino L, Li M, Ikehata M, Mattinzoli D, Messa P, Pignatari C, Watanabe S, Rastaldi MP.

Biomol Concepts. 2014 Aug 1;5(4):319-30.

2. Application of retinoic acid to obtain osteocytes cultures from primary mouse osteoblasts.

Mattinzoli D, Messa P, Corbelli A, Ikehata M, Mondini A, Zennaro C, **Armelloni S**, Li M, Giardino L, Rastaldi MP.

J Vis Exp. 2014 May 13;(87).

3. Podocyte developmental defects caused by adriamycin in zebrafish embryos and larvae: a novel model of glomerular damage.

Zennaro C, Mariotti M, Carraro M, Pasqualetti S, Corbelli A, **Armelloni S**, Li M, Ikehata M, Clai M, Artero M, Messa P, Boscutti G, Rastaldi MP.

PLoS One. 2014 May 20;9(5):e98131.

4. A novel model of in vitro osteocytogenesis induced by retinoic acid treatment.

Mattinzoli D, Messa P, Corbelli A, Ikehata M, Zennaro C, **Armelloni S**, Li M, Giardino L, Rastaldi MP.
Eur Cell Mater. 2012 Nov 17;24:403-25.

5. Fifteen years of research on nephrin: what we still need to know.

Li M, **Armelloni S**, Edefonti A, Messa P, Rastaldi MP.

Nephrol Dial Transplant. 2013 Apr;28(4):767-70.

6. Podocytes: a new player for glutamate signaling.

Armelloni S, Li M, Messa P, Rastaldi MP.

Int J Biochem Cell Biol. 2012 Dec;44(12):2272-7.

7. Proteinuria and glomerular damage in Rab3A knockout mice chronically fed a high-glucose diet.

Armelloni S, Calvaresi N, Ikehata M, Corbelli A, Mattinzoli D, Giardino L, Li M, Messa P, Rastaldi MP.

Nephron Exp Nephrol. 2012;120(2):e69-80.

8. [Synaptic-like signals at the filtration barrier: the role of nephrin].

Li M, **Armelloni S**, Giardino L, Corbelli A, Mattinzoli D, Mondini A, Ikehata M, Messa P, Rastaldi MP.

G Ital Nefrol. 2011 Sep-Oct;28(5):462-4.

9. Nephrin expression in adult rodent central nervous system and its interaction with glutamate receptors.

Li M, **Armelloni S**, Ikehata M, Corbelli A, Pesaresi M, Calvaresi N, Giardino L, Mattinzoli D, Nisticò F, Andreoni S, Puliti A, Ravazzolo R, Forloni G, Messa P, Rastaldi MP.

J Pathol. 2011 Sep;225(1):118-28.

10. Albuminuria and glomerular damage in mice lacking the metabotropic glutamate receptor 1.

Puliti A, Rossi PI, Caridi G, Corbelli A, Ikehata M, **Armelloni S**, Li M, Zennaro C, Conti V, Vaccari CM, Cassanello M, Calevo MG, Emionite L, Ravazzolo R, Rastaldi MP.

Am J Pathol. 2011 Mar;178(3):1257-69.

11. alpha- and beta-Adducin polymorphisms affect podocyte proteins and proteinuria in rodents and decline of renal function in human IgA nephropathy.

Ferrandi M, Cusi D, Molinari I, Del Vecchio L, Barlassina C, Rastaldi MP, Schena FP, Macciardi F, Marcantoni C, Roccatello D, Peters LL, **Armelloni S**, Min L, Giardino L, Mattinzoli D, Camisasca C, Palazzo F, Manunta P, Ferrari P, Bianchi G.

J Mol Med (Berl). 2010 Feb;88(2):203-17.

12. Podocyte glutamatergic signaling contributes to the function of the glomerular filtration barrier.

Giardino L, **Armelloni S**, Corbelli A, Mattinzoli D, Zennaro C, Guerrot D, Tourrel F, Ikehata M, Li M, Berra S, Carraro M, Messa P, Rastaldi MP.

J Am Soc Nephrol. 2009 Sep;20(9):1929-40.

13. The death ligand TRAIL in diabetic nephropathy.

Lorz C, Benito-Martín A, Boucherot A, Ucero AC, Rastaldi MP, Henger A, **Armelloni S**, Santamaria B, Berthier CC, Kretzler M, Egido J, Ortiz A.

J Am Soc Nephrol. 2008 May;19(5):904-14.

14. [The renal biopsy in the post-genomic era.].

Mattinzoli D, Giardino LA, Corbelli A, **Armelloni S**, Li M, Berra S, Rastaldi MP.

G Ital Nefrol. 2007 Sep-Oct;24(5):415-24.

15. Glomerular barrier dysfunction in glomerulosclerosis-resistant Milan rats with experimental diabetes: the role of renal haemodynamics.

Pugliese G, Ricci C, Iacobini C, Menini S, Fioretto P, Ferrandi M, Giardino LA, **Armelloni S**, Mattinzoli D, Rastaldi MP, Pugliese F.

J Pathol. 2007 Oct;213(2):210-8. Erratum in: J Pathol. 2007 Oct;213(2):218.

16. Glomerular clusterin is associated with PKC-alpha/beta regulation and good outcome of membranous glomerulonephritis in humans.

Rastaldi MP, Candiano G, Musante L, Bruschi M, **Armelloni S**, Rimoldi L, Tardanico R, Sanna-Cherchi S, Ferrario F, Montinaro V, Haupt R, Parodi S, Carnevali ML, Allegrì L, Camussi G, Gesualdo L, Scolari F, Ghiggeri GM.

- Kidney Int. 2006 Aug;70(3):477-85. Epub 2006 Jun 14. Erratum in: Kidney Int. 2006 Nov;70(9):1666.
17. Glomerular podocytes contain neuron-like functional synaptic vesicles.
Rastaldi MP, **Armelloni S**, Berra S, Calvaresi N, Corbelli A, Giardino LA, Li M, Wang GQ, Fornasieri A, Villa A, Heikkila E, Soliymani R, Boucherot A, Cohen CD, Kretzler M, Nitsche A, Ripamonti M, Malgaroli A, Pesaresi M, Forloni GL, Schlöndorff D, Holthofer H, D'Amico G.
FASEB J. 2006 May;20(7):976-8.
18. CD20-positive infiltrates in human membranous glomerulonephritis.
Cohen CD, Calvaresi N, **Armelloni S**, Schmid H, Henger A, Ott U, Rastaldi MP, Kretzler M.
J Nephrol. 2005 May-Jun;18(3):328-33.
19. Glomerular podocytes possess the synaptic vesicle molecule Rab3A and its specific effector rabphilin-3a.
Rastaldi MP, **Armelloni S**, Berra S, Li M, Pesaresi M, Poczewski H, Langer B, Kerjaschki D, Henger A, Blattner SM, Kretzler M, Wanke R, D'Amico G.
Am J Pathol. 2003 Sep;163(3):889-99.
20. Electron microscopy study of genesis and dynamics of immunodeposition in IgMk-IgG cryoglobulin-induced glomerulonephritis in mice.
Fornasieri A, Tazzari S, Li M, **Armelloni S**, Tarelli LT, Sessa A, D'Amico G.
Am J Kidney Dis. 1998 Mar;31(3):435-42.
21. Characterization of nephropathy induced by immunization with high molecular weight dextran.
Pasi A, Dendorfer U, Holthöfer H, Nelson PJ, Tazzari S, **Armelloni S**, Fornasieri A, D'Amico G, Schlöndorff D
Nephrol Dial Transplant. 1997 Sep;12(9):1849-55.
22. High binding of immunoglobulin M kappa rheumatoid factor from type II cryoglobulins to cellular fibronectin: a mechanism for induction of in situ immune complex glomerulonephritis?
Fornasieri A, **Armelloni S**, Bernasconi P, Li M, de Septis CP, Sinico RA, D'Amico G.
Am J Kidney Dis. 1996 Apr;27(4):476-83.
23. Anti-mesangial and anti-endothelial cell antibodies in IgA mesangial nephropathy.
Fornasieri A, Pinerolo C, Bernasconi P, Li M, **Armelloni S**, Gibelli A, D'Amico G.
Clin Nephrol. 1995 Aug;44(2):71-9.
24. Glomerulonephritis induced by human IgMK-IgG cryoglobulins in mice.
Fornasieri A, Li M, **Armelloni S**, de Septis CP, Schiaffino E, Sinico RA, Schmid C, D'Amico G.
Lab Invest. 1993 Nov;69(5):531-40.
25. Interference of cephalosporins with immune response: effects of cefonicid on human T-helper cells.
Villa ML, **Armelloni S**, Ferrario E, Ottaviani F, Clerici M.
Int J Immunopharmacol. 1991;13(8):1099-107.

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Milano, 18 novembre 2014

