## CURRICULUM VITAE


Alice Nevone, Ph.D. student

**Date of birth:** 05.10.1993

**City of birth:** Palermo (PA), Italy

**Citizenship:** Italian


## Current position

Research fellow

Amyloidosis Research and Treatment Center, Fondazione IRCCS Policlinico San Matteo, Department of Molecular Medicine, University of Pavia, Pavia, Italy

The project aims at studying the sensitivity of the disease-causing plasma cell clone to a novel drug called Melflufen. Primary plasma cells from diagnostic leftovers of patient bone marrow aspirations will be exposed to the investigational drug *in vitro* and efficacy will be assessed with cell viability assays. Biochemical and genetic analyses will be performed to confirm the mechanism of action, and the possible synergistic effect with other anti-plasma cell drugs will be investigated.

## Education

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| 11/2021-Present | Specialization in Clinical Pathology and Clinical Biochemistry, Faculty of Medicine, University of Pavia, Italy (supervisor: Prof. Giovanni Palladini) |
| 07/2020 | Professional habilitation in Biology, University of Pavia, Italy |
| 10/2018 – 04/2022 | PhD Program in Translational Medicine, Department of Molecular Medicine, University of Pavia, Italy (Thesis title: "Harnessing proteotoxicity: exploring the therapeutic potential of small molecule DUBs inhibitors in AL amyloidosis"; date of defense: 29/04/2022; supervisor: Prof. Giampaolo Merlini and Prof. Mario Nuvolone) |
| 10/2016 – 07/2018 | Molecular Biology and Genetics master's degree *summa cum laude*, Department of Biology and Biotechnology, University of Pavia, Italy (Thesis title: "A strategy for the selection of qPCR refence genes based on publicly available transcriptomics datasets"; date of defense: 25/07/2018; supervisor: Prof. Mario Nuvolone) |
| 10/2012 – 07/2016 | Bachelor's degree in Biology, Department of Chemistry, Biology and Biotechnology, University of Perugia, Italy (Thesis title, translated: "Alternative gene therapy as treatment for solid tumors"; date of Defense: 18/07/2016; supervisor: Prof. Ermanno Federici) |

## Professional experience

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| 10/2021-Present | Research fellowship at the Amyloidosis Research and Treatment Center, Department of Molecular Medicine, University of Pavia, Italy. Project title: "Investigating the therapeutic effect of Melflufen in preclinical models of AL amyloidosis". Supervisor: Prof. Mario Nuvolone |
| Since 2020 | Tutor of the course titled "Genoma: analisi e applicazioni diagnostiche" at the master's degree in Biotecnologie Mediche e Farmaceutiche, Department of Molecular Medicine, University of Pavia, Italy |
| 2018-2022 | PhD fellowship at the Amyloidosis Research and Treatment Center, Department of Molecular Medicine, University of Pavia, Italy. Project title: "Novel therapeutic strategies against AL amyloidosis". Supervisor: Prof. Giampaolo Merlini and Prof. Mario Nuvolone |

## Languages

Italian: mother tongue
English: fluent

## Awards and research grants

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| 2022 | International Society of Amyloidosis 2022 Presidential Travel Support to attend the XVIII$^{th}$ International Symposium on Amyloidosis, Heidelberg, Germany |
| 2020 | International Society of Amyloidosis 2020 Presidential Travel Support to attend the XVII$^{th}$ International Symposium on Amyloidosis, Tarragona, Spain |
| 2018 | Prize for best poster presentation at the 50$^{th}$ National Congress of the Italian Society of Clinical Chemistry and Clinical Molecular Biology (SIBioC). October 16$^{th}$-18$^{th}$, 2018. Naples, Italy |

## Memberships in scientific societies

Società Italiana per l'Amiloidosi (SIA)
International Society of Amyloidosis (ISA)
Società Italiana di Biochimica Clinica e Biologia Molecolare Clinica (SIBioC)

## Publications

1. Cascino P, Nevone A, Piscitelli M, Scopelliti C, Girelli M, Mazzini G, Caminito S, Russo G, Milani P, Basset M, Foli A, Fazio F, Casarini S, Massa M, Bozzola M, Ripepi J, Sesta MA, Acquafredda G, Moretta A, Avanzini MA, Rognoni P, Milan E, Ricagno S, Lavatelli F, Petrucci MT, Klersy C, Merlini G, Palladini G, Nuvolone M. **Single Molecule Real-Time Sequencing of the M protein (SMaRT M-Seq): toward personalized medicine approaches in monoclonal gammopathies.** (Manuscript under review)

2. Nevone A, Girelli M, Mangiacavalli S, Paiva B, Milani P, Cascino P, Piscitelli M, Speranzini V, Cartia CS, Benvenuti P, Goicoechea I, Fazio F, Basset M, Foli A, Nanci M, Mazzini G, Caminito S, Sesta MA, Casarini S, Rognoni P, Lavatelli F, Petrucci MT, Olimpieri PP, Ricagno S, Arcaini L, Merlini G, Palladini G, Nuvolone M. **An N-glycosylation hotspot in immunoglobulin κ light chains is associated with AL amyloidosis.** *Leukemia*. 2022 May.
3. Valsecchi C, Croce S, Maltese A, Montagna L, Lenta E, Nevone A, Girelli M, Milani P, Bosoni T, Massa M, Abbà C, Campanelli R, Ripepi J, De Silvestri A, Carolei A, Palladini G, Zecca M, Nuvolone M, Avanzini MA. **Bone Marrow Microenvironment in Light-Chain Amyloidosis: In Vitro Expansion and Characterization of Mesenchymal Stromal Cells.** *Biomedicines*. 2021 Oct.
4. Alameda D, Goicoechea I, Vicari M, Arriazu E, Nevone A, Rodríguez S, Lasa M, Puig N, Cedena MT, Alignani D, Garate S, Lara-Astiaso D, Vilas-Zornoza A, Sarvide S, Ocio EM, Lecumberri R, Garcia de Coca A, Labrador J, Gonzalez ME, Palomera L, Gironella M, Cabañas V, Casanova M, Oriol A, Krsnik I, Pérez-Montaña A, de la Rubia J, de la Puerta JE, de Arriba F, Fazio VM, Martinez-Lopez J, Lahuerta JJ, Mateos MV, Odero MD, Prosper F, Weiner A, Amit I, Nuvolone M, San-Miguel JFF, Paiva B. **Tumor cells in light-chain amyloidosis and myeloma show different transcriptional rewiring of normal plasma cell development.** *Blood*, 2021 Jun.
5. Nevone A, Cascino P, Girelli M, Scopelliti C, Piscitelli M, Bozzola M, Sesta MA, Ripepi J, Milani P, Basset M, Palladini G, Nuvolone M. **Analisi dei livelli trascrizionali di ciclina D1 nello studio delle discrasie plasmacellulari: revisione sistematica della letteratura.** *Biochimica Clinica*, 2021 Mar.
6. Palladini G, Paiva B, Wechalekar A, Massa M, Milani P, Lasa M, Ravichandran S, Krsnik I, Basset M, Burgos L, Nuvolone M, Lecumberri R, Foli A, Puig N, Sesta MA, Bozzola M, Cascino P, Nevone A, Ripepi J, Berti P, Casarini S, Annibali O, Orfao A, San-Miguel J, Merlini G. **Minimal residual disease negativity by next-generation flow cytometry is associated with improved organ response in AL amyloidosis**. *Blood Cancer J*, 2021 Feb.
7. Nevone A, Merlini G, Nuvolone M. **Treating Protein Misfolding Diseases: Therapeutic Successes Against Systemic Amyloidoses**. *Frontiers in Pharmacology*, 2020 Jul.
8. Nevone A, Cascino P, Bozzola M, Palladini G, Nuvolone M. **Identificazione di geni di normalizzazione per studi trascrizionali con PCR quantitativa: revisione della letteratura**. *Biochimica Clinica*, 2019 Sept.

**Oral presentations**

1. Nevone A, Girelli M, Mangiacavalli S, Paiva B, Milani P, Cascino P, Piscitelli M, Speranzini V, Cartia CS, Benvenuti P, Goicoechea I, Fazio F, Basset M, Foli A, Nanci M, Mazzini G, Caminito S, Sesta MA, Casarini S, Rognoni P, Lavatelli F, Petrucci MT, Olimpieri PP, Ricagno S, Arcaini L, Merlini G, Palladini G, Nuvolone M. **An N-glycosylation hotspot in immunoglobulin κ light chains is associated with AL amyloidosis.** 18° congress ISA, Heidelberg, 2022
2. Nevone A, Cascino P, Dambruoso I, Zappatore R, Bozzola M, Botti V, Massa M, Sesta MA, Milani P, Basset M, Foli A, Boni M, Arcaini L, Merlini G, Palladini G, Nuvolone M. **Diagnostic potential of a novel RT-qPCR-based assay to measure *CCND1* mRNA expression levels in bone marrow plasma cells from AL amyloidosis patients.** 17° congress ISA, Tarragona (web meeting), 2020

3. Nevone A, Cascino P, Bozzola M, Botti V, Massa M, Sesta MA, Dambruoso I, Milani P, Basset M, Foli A, Merlini G, Palladini G, Nuvolone M. **Diagnostic potential of a novel real-time quantitative PCR-based assay to measure cyclin D1 / CCND1 mRNA expression levels in bone marrow-derived plasma cells from patients with AL amyloidosis.** 51° congresso nazionale SIBioC, Padova, 2019

**Poster presentations**

1. Nuvolone M, Massa M, Milan P, Basset M, Foli A, Sesta MA, Bozzola M, Cascino P, Nevone A, Ripepi J, Berti P, Casarini S, Annibali O, Bosoni T, Li Bergolis F, Sarais G, Albertini R, Merlini G, Palladini G. **Persistence of minimal residual disease as detected by next-generation flow cytometry hinders organ response in immunoglobulin light chain (AL) amyloidosis**. 52° congresso nazionale SIBioC, Bari (web meeting),
2. Cascino P, Nevone A, Bozzola M, Massa M, Avanzini MA, Milan P, Basset M, Foli A, Merlini G, Palladini G, Nuvolone M. **A strategy for the selection of qPCR reference genes to study bone marrow derived plasma cells from patients with AL amyloidosis.** 17° congress ISA, Tarragona (web meeting), 2020
3. Nuvolone M, Cascino P, Nevone A, Chauhan D, Song Y, Bozzola M, Massa M, Sesta MA, Avanzini MA, Dambruoso I, Boni M, Milani P, Basset M, Foli A, Anderson KC, Merlini G, Palladini G. **Targeting Deubiquitylating Enzymes USP14 and UCHL5 in Systemic Immunoglobulin Light Chain (AL) Amyloidosis.** 61° annual meeting ASH, Orlando, 2019
4. Nuvolone M, Milani P, Basset M, Foli A, Nevone A, Cascino P, Bozzola M, Ripepi J, Bosoni T, Badulli C, Albertini R, Merlini G, Palladini G. **Performance of biomarker-based staging systems in elderly patients with AL amyloidosis.** 51° congresso nazionale SIBioC, Padova, 2019
5. Nuvolone M, Nevone A, Cascino P, Bozzola M, Massa M, Maltese A, Avanzini MA, Milani P, Basset M, Foli A, Merlini G, Palladini G. **Exploiting publicly available transcriptomic data sets for the selection of qPCR reference genes.** 2° convegno SIBioC Young Scientists, Roma, 2018
6. Nuvolone M, Nevone A, Cascino P, Bozzola M, Massa M, Maltese A, Avanzini MA, Milani P, Basset M, Foli A, Merlini G, Palladini G. **A strategy for the selection of qPCR reference genes based on publicly available transcriptomic data sets.** 50° congresso nazionale SIBioC, Napoli, 2018 – Awarded with 1°place prize for best poster presentation



Pavia, 14/07/2022

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