

Curriculum Vitae

Melissa Milazzo

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PERSONAL INFORMATION

JOB APPLIED FOR POSITION Albo per Dottorandi per l'affidamento di attività didattica integrativa extracurriculare e attività di orientamento e tutorato a favore dei corsi di studio dell'ateneo - Dipartimento di Bioscienze

WORK EXPERIENCE

(01/10/2023 - ongoing) PhD Student

- Università degli Studi di Milano (Via Giovanni Celoria 26, 20133, Milan)
- Cryo-Electron Microscopy analyses
- Data processing with Relion-3.1.2 and Relion-5.0
- Model building with Chimera-X, USCF Chimera, WinCoot, Phenix
- Use of Linux commands from terminal
- Business or sector Department of Biosciences

(01/01/2023 - 30/09/2023) Research Fellow

IFOM ETS - The AIRC Institute of Molecular Oncology (Via Adamello 16, 20139, Milan)

- Cloning
- Protein expression in E. coli
- Protein purification with AKTA Pure and AKTA Purifier
- Size exclusions
- Activity assays (UREA-PAGE)
- Xenopus laevis extracts preparation
- Chromatin binding
- Western blots
- SDS-PAGE
- Antibody test
- Site-directed mutagenesis
- SnapGene to prepare cloning, PCR, mutagenesis, project primers
- Binding analyses (EMSA)
- Sample preparation for Electron Microscopy analyses

(30/03/2022 - 30/09/2022)

ERASMUS+ SMT Trainee

University of Cambridge (Sanger Building, 80 Tennis Ct Rd, Cambridge CB2 1GA, UK)

- Cryo-Electron Microscopy sample preparation by vitrification (Vitrobot training)
- Cryo-EM data processing (cryoSPARC, Relion, Chimera)
- Mutagenesis
- Cloning
- Protein expression in E. coli
- Protein purification with AKTA Pure
- Activity assays (UREA-PAGE)
- Binding Assays (Electrophoretic Mobility Shift Assay)
- SDS-PAGE
- Followed Titan Krios and Talos Arctica grids' screening
- Size exclusion chromatography
- Mass photometry analyses
- Pull-down assays
- Business or sector Department of Biochemistry

EDUCATION AND TRAINING



(01/10/2020 - 21/10/2022)	Master's Degree	in Biomolecular,	Genomic and Co	ellular Sciences	EQF level 7		
	Università degli Studi di Parma (Via delle Scienze 181/a, 43124, Parma, Italy)						
	 Seminar about Pyrr Workshop given by introduction and fi Chimera and WinCo Bioinformatic analy phylogenetic trees Python, HWMER, Se Traineeship (prof. I "Investigating the the interaction bet see work experience Final grade: 110/11 	nol usage to perform prof. Ben Luisi (Dep rst concepts of cryo- pot (theory and prace yses: multiple seque (), String analyses, f equence logos, home Luca Pellegrini's labo biochemical and stri- tween RPA and Prim- te section "ERSAMUS 10 cum laude	n protein structure a ot. of Biochemistry, C -EM, Relion, data pro ttice) nce analyses (Clusta Uniprot, Expasy, BLA ology modelling, TMF oratory, Dept. of Bio uctural basis for inh osome during DNA ro S+ SMT Trainee"	nalyses Cambridge University ocessing and model I IX, Clustal Omega, J ST, PyMol structural PRED, FASTQ) chemistry, Cambridg <i>ibition of Pola/Prim</i> <i>eplication</i> ". Laborate	r) about building with alview), creation of analyses, basics of e University) on ase by CD437 and ory skills acquired:		
(01/10/2017 - 24/09/2020)	Bachelor's Degre	e in Biotechnolo	gy		EQF level 6		
	Università degli Studi di Parma (Via delle Scienze 181/a, 43124, Parma, Italy)						
(09/2012 - 06/2017)	 Integrate Laboratory of Biotechnology I: yeast cell plating, cell counting. Integrate laboratory of Biotechnology II: SDS-PAGE, Western Blot. Integrate laboratory of Biotechnology III: analyses of polymorphisms, DNA extraction, Electrophoresis. Traineeship (prof. Paola Goffrini, Dept. of Chemistry, Life Sciences and Environmental Sustainability, Università degli Studi di Parma) on <i>"Evaluation of the pathogenicity of mutations in genes encoding mitochondrial aminoacyl-tRNA synthetases RARS2 and VARS2 in Saccharomyces cerevisiae: feasibility study and construction of the model"</i>. Basic use of bioinformatic tools (multiple sequence analyses, Uniprot, NCBI, Expasy) Cloning Restriction and ligation Electrophoresis SDS-PAGE S. <i>cerevisiae</i> transformation Protein expression Final grade 104/110 High School Diploma in Foreign Languages EQF level 5 Liceo Scientifico Statale Aldo Moro (Via XX Settembre 5, 42124, Reggio Emilia, Italy) Italian English French 						
TENSONAE SKILLS							
Mother tongue(s)	Italian						
Other language(s)	UNDERSTANDING		SPEAKING		WRITING		
	Listening	Reading	Spoken interaction	Spoken production			
English	C1	C1	C1	C1	C1		
	First Certificate in English. Score: 184/190						
French	B2	B2	B2	B2	B2		
		[DELF. Score: 81/100				

B2

B2

Not certificated. Level obtained after Linguistic High School Diploma.

B2

B2

Spanish

B2



Curriculum Vitae

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

Communication skills

 good communication skills gained through my Master's thesis preparation and exposition, as well as through the Erasmus traineeship

Job-related skills

- I acquired some fundamentals of teaching through a volunteering experience as after-school teacher.
- I learnt the basics of molecular biology during my Bachelor's Degree. Then I deepen my knowledge during the Master's Degree.
- I acquired laboratory skills thanks to the Erasmus Traineeship experience and my current job as a PhD student.
- Having being a university student one year ago will help me create a good connection with students.

Digital skills

SELF-ASSESSMENT						
Information processing	Communication	Content creation	Safety	Problem solving		
Independent User	Independent User	Independent User	Independent User	Independent User		
avelar Designatory Independent user Destiniant user						

Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid

- Other computer skills:
- Linux commands, learnt to perform data processing on Relion-3.1.2 and Relion-5.0
- Power point presentations
- Word
- Excel
- NotePad++
- ChimeraX 1.3
- UCSF Chimera
- ImageJ
- Jalview
- ClustalX
- PyMOL
- Phenix1.20
- MobaXterm
- WinSCP
- Zoom, Teams, Webex

Other skills • After-school teacher

- Cashier
 - secretary

Driving licence AB

В

ADDITIONAL INFORMATION



Projects	s Seminars		
Seminars Certifications	 Workshop: Introduction a with Chimera and Coot (t 	nd first concepts of cryo-EM, Relion, data processing and heory and practice), prof. Ben Luisi, University of Cambri	model building idge.
	 Chaperone regulation of t Disease, prof. Claudio Go Milan, Italy. 	he protein condensation and aggregation continuum in A mes, prof. Stefano Ricagno, 20/10/23, Università degli St	lzheimer's udi di Milano,
	 Identification of new target Paola Cattaneo, prof. Paol 	gets to promote cardiac regeneration and prevent cardiac lo Landini, 23/10/23, Università degli Studi di Milano, Mi	: fibrosis, Dr. lan, Italy.
	 Conformational ensemble Larsen, prof. Carlo Camil 	s of the human intrinsically disordered proteome, prof. oni, 03/11/23, Università degli Studi di Milano, Milan, Ita	resten Lindorff- الy.
	 Descovering new genetic Diego Dibitteo, prof. S. Se 	determinants of chemotherapy resistance in BRCA-deficie ertic, 10/11/23, Università degli Studi di Milano, Milan, It	ent tumors, Dr. aly.
	 Neuromuscular organoids Urcinolo, prof. G. Messina Certificates 	for studying the human neuromuscular system in vitro, D 1, 19/1/24, Università degli Studi di Milano, Milan (Italy).	r. Anna
	 Certificate of achievemer Steve Chan", awarded by Cambridge, Cambridge (L 	It: "The epigenetic regulation of breast cancer: Meet the Prtoeintach Group, Dr Rebecca Northeast, 19/05/2022, 1 IK).	expert, Dr. University of
	 Certificate of course part 50 Hz", 27/02/2023, Fabi 	icipation: "Optima Max-XP Ultracentrifuge 100-120V 50/6 o Ascorti and Natale Cerati, IFOM, Milan (Italy).	50 Hz 220-240V
	 First Certificate in English 	, Grade A, 184/190, C1, 10/05/2023, Reggio Emilia.	
	 Attestation de Rèussite, I 	ELF B2,81/100, 29/08/2016, Bologna (Italy).	
Personal information	I authorize the handling of per modifications and Regulations of University Regulations conce	sonal information in this curriculum, according to D.Lgs n. 196/0. EU 679/2016 (General Regulations concerning Data Protection or eming protection of personal information.	3 and following GRDP) and art. 7
	I authorize, according to D.lgs and of the fellowship, the publ section "Amministrazione tras	14/03/2013 n. 33 concerning transparency, in case of confermen ication of this curriculum in the web site of Università degli Stud parente", "Consulenti e collaboratori".	t of the position i di Milano in the
Date	30/01/2024	Signature	

Date