UNIVERSITÀ DEGLI STUDI DI MILANO

TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **ID CODE: 7109**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di scienze biomediche e cliniche.**

Scientist- in charge: **Professor. Fiorina Paolo**

[Name and surname]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	YERRA
Name	PREETHAM

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Bachelor's degree in biotechnology, specializing in microbiology and chemistry	Kakatiya university, Warangal, Hanamkonda, Telangana, INDIA	01/06/2016-31/03/2019
Master	Master's degree in medical biotechnology	University of Eastern Piedmont, Novara, ITALY	01/10/2019-14/10/2021
Research fellow	Laboratory of wound healing	UNIUPO	01/11/2021-30/11/2023
Research fellow	Romeo and Enrica Invernizzi Paediatric Research Center	UNIMI	01/03/2024-28/02/2025

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
16/01/2024	Società Italiana di Diabetologia	

FOREIGN LANGUAGES

Languages	level of knowledge
ENGLISH	C2
HINDI	C1
ITALIAN	A1
TELUGU	C2

SCHOLARSHIPS

Year	Description of award
1/10/19-14/10/21	Master's degree student scholarship- UNIUPO
1/5/22-30/11/23	Scholarship awarded as Research Fellow-Department of Health sciences- UNIUPO
1/3/24-28/2/25	ASSEGNO DI RICERCA DI TIPO B- Research fellow- UNIMI

TRAINING OR RESEARCH ACTIVITY

2020-2021-Master's degree thesis internship at Department of Health science in laboratory of physiology- We explored the effects of curcumin on osteoblasts on aspects of bone maturation on pre-osteoblastic cell line (MC3T3-E1).

Gained knowledge in cell culture, cell-based assays, Lentiviral transduction, Western blot, Flow cytometry and FACS staining.

2022-2023- Training at Department of Health science in laboratory of Wound healing (UPO)

Trained and involved in Research projects where one of the projects focused on evaluating the effect of clodronate as a release inhibitor of microvesicles containing ATP by human keratinocytes in nociceptive environment. MTT and ATP assays were performed. In addition, Microvesicles analysis was performed using EXO VIEW R100 image instrument. ATP quantification was analyzed using bioluminescence imaging on the IVIS platform.

The second project was on to improve the biocompatibility and bioactivity of the Gelatin and xanthan gum hydrogel adding polydopamine (PDA) to create a new bioink that could allow better cell adhesion and proliferation for the development of innovative printed wound dressings using 3D Bioprinter.

2023-2024- ASSEGNO DI RICERCA DI TIPO B- Research fellow at Romeo and Enrica Invernizzi Paediatric Research Center- University of Milan.

Involved in the following Research projects and activities-

1. **Targeting IL-8/CXCR1-CXCR2 to unleash regulatory B cells in Type 1 Diabetes:**

1. I have been involved in collecting and processing of PBMCs from healthy controls and from patients with T1D for profiling IL-8/CXCR1-CXCR2.
2. I have also extracted splenocytes from NOD mice and C57BL/6J mice and B cell isolation by microbeads selection for ulterior B regulatory cells generation

2. **Optimization of a novel mitochondrial target to treat obesity:**

1. I have been involved in subculturing of epithelial cell line and optimization with RNAi to knockdown a mitochondrial target.
2. Subculturing and differentiation of human preadipocytes.
3. Culturing and maintaining human and murine cell lines.

- **Charls river mice and rats Training course (Theory)- Biomedia**

Laboratory techniques acquired till date:

Cell culture, Isolation of DNA/RNA, 3D bioprinting, Photobiomodulation, MTT assay, ATP assay, PCR, RT- qPCR, Western blot, Bioluminescence imaging, Microscopy techniques, RNAi Transfection with siRNA, CRISPR CAS9 gene editing, Immunofluorescence, Seahorse Assay.

PROJECT ACTIVITY

2020-2021	The Role of curcumin on osteoblastic cell line as a possible treatment to enhance osteoblast maturation
2022-2023	Study of modulation of the release of ATP in human keratinocytes induced by amino bisphosphonates
2022-2023	Development of Multicomponent bioink for 3D Bioprinting applications
2024-2025	Optimization of a novel mitochondrial target to treat obesity

CONGRESSES AND SEMINARS

12/1/24-13/1/24	UPDATE ON DIABETES AND CVD	MILANO, ITALY
23/10/24-26/10/24	SID 30th National congress	RIMMINI, ITALY

WORKSHOPS

22.5.23-23.5.23	International Workshop NO-CANCER 2023	NOVARA, ITALY

PUBLICATIONS

JOURNAL
Migliario, M.; **Yerra, P**.; Gino, S.; Sabbatini, M.; Reno□, F. Laser Biostimulation Induces Wound Healing-Promoter β2-Defensin Expression in Human Keratinocytes via Oxidative Stress. Antioxidants 2023,12,1550. https://doi.org/ 10.3390/antiox12081550 (IF=7.675)
Preetham Yerra, Mario Migliario, Sarah Gino, Maurizio Sabbatini, Monica Bignotto, Marco Invernizzi, Filippo Reno□* Polydopamine blending increases cell proliferation in Gelatin-xanthan gum 3D printed hydrogel-GELS 2024. https://doi.org/10.3390/gels10020145 (IF= 4.6)

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date:_____13/01/2025 ____Milan_____