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**PERSONAL INFORMATIONS**

Name and Surname **VALERIA PURPURA**  
Place and Date of Birth November 28, 1982 Palermo, Italy  
Address  
E-mail [valeriapurpura@gmail.com](mailto:valeriapurpura@gmail.com); [valeria.purpura@auslromagna.it](mailto:valeria.purpura@auslromagna.it)  
Cellular phone  
Nationality Italian

**WORK EXPERIENCE**

Date 01/12/2022 to date  
Type of sector **EMILIA-ROMAGNA REGIONAL HEALTH SERVICE** Emilia Romagna Regional Skin Bank – Burn Centre - "Bufalini" Hospital, AUSL della Romagna - Cesena.  
Occupation or position held Responsible for the production of Human Amniotic Membrane and Clinical Research. Employee as Biologist – Specialist in Clinical Pathology.  
Main activities and responsibilities Design and development of "collection, processing, preservation, storage and clinical distribution of the Human Amniotic Membrane for its clinical use", drafting of the related procedures and validation of the process. Drafting and development of national and international research projects. Drafting of scientific articles and protocols relating to clinical research activity. Clinical experimentation aimed to development of patents. Processing, preservation, storage and clinical distribution of Tissues at Emilia Romagna Regional Skin Bank according to the guidelines of the National Transplant Center.  
**Main research projects:**  
-Acellular Matrix Homologist from Human Dermis in Combination with Orthobiologic Stimuli, Subacromial Bursa and Humeral Bone Marrow Concentrate, For Augmentation of Massive Rotator Cuff Tears: Therapeutic Effectcy and Improvements for the Development of A Cost Effective and Ready to Use Product. MODA. (Winning project of the "Bando Ricerca Finalizzata 2021) in collaboration with the Rizzoli Orthopedic Institute, Bologna.  
-"Tesp -Tissue Engineering Spare Parts" aimed to the design and development of esophagus-derived decellularized and microperforated human scaffolds to be used as starting material for the development of advanced medicinal therapy products (ATMP) (Project of the European Call "EIC Accelerators ") in collaboration with other public and private companies.  
- Design and development of new processing methods of the human amniotic membrane, in collaboration with the University of Urbino;  
- Design and development of a new method for decellularization of the human amniotic membrane  
**Patents:**  
- Patent of invention nr. 102021000017396 "Storage method at room temperature of tissues and organs intended for clinical use"  
- Patent of invention nr. 102021000017411 "Method of decellularization of tissues and organs"

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Dates	26/07/2017 – 30/11/2022
Type of sector	<b>EMILIA-ROMAGNA REGIONAL HEALTH SERVICE</b> Emilia Romagna Regional Skin Bank – Burn Centre - “Bufalini” Hospital, AUSL della Romagna - Cesena.
Occupation or position held	Responsible of the Clinical Research at Emilia Romagna regional Skin Bank. Employee as Research Biotechnologist experienced in tissue engineering, banking activity for cutaneous tissue and decellularized dermal matrices.
Main activities and responsibilities	<p>Implementation/realization and application of cellular therapies in the field of Skin Tissue Regenerative Medicine (keratinocyte and fibroblast cellular cultures) for the bioengineering of decellularized scaffolds.</p> <p>Design/implementation of preservation methods for the storage of acellular dermal matrices (lyophilization, glycerolization, cryopreservation, solution at room tempertaure) as well as new methods for their sterilization. Development of a new solution for the storage of human tissues.</p> <p>Development of specific protocols for the processing/decellularization/storage of different tissues for their clinical distribution (human amniotic membrane, autologous human adipose tissue).</p> <p>Support to the activities of processing, storage, validation, and distribution of cutaneous tissue according to rules of National Trasplantation Centre (CNT 2016).</p> <p><b>Clinical projects</b></p> <p>Scientific design and realization of cell-free scaffolds derived from different human tissues (amniotic membrane, rotator cuff, bovine tendons) for their application in the field of Regenerative Medicine in collaboration with IRCSS and no profit associations.</p> <p>Realization of new methods aimed to sterilize human tissue in collaboration with University.</p> <p>Realization of 3D tumoral micro-tissue enriched with patient’s cells for radiobiological and drug screen test in collaboration with IRCSS.</p> <p>Biological characterization of human adipose tissue and design of cellular methods to improve its clinical effectiveness in plastic and reconstructive surgery.</p> <p>Biological characterization of innovative commercial products for clinical use.</p> <p>Development of innovative therapies (phage-mediated photodynamic therapy) for the treatment of infected non healing wounds (burns, ulcers)</p>
Dates	03/02/2014 to 25/07/2017
Name and address of employer	<b>EMILIA-ROMAGNA REGIONAL HEALTH SERVICE</b> Emilia Romagna Regional Skin Bank – Burn Centre - “Bufalini” Hospital, AUSL della Romagna – Cesena, Italy.
Occupation or position held	Self-employed as biotechnologist experienced in tissue engineering, banking activity for cutaneous tissue and decellularized dermal matrices.
Dates	03/02/2014 to 26/07/2017
Name and address of employer	CENTRO MEDICO CERVIA SRL CENTRO IPERBARICO SRL
Main activities and responsibilities	<p>Self employed as a biotechnologist experienced for the treatment of non-healing wounds, ulcers, alopecia and wrinkles for beauty treatments.</p> <p>Preparation of homologous platelet gel, preparation of autologous platelet gel, preparation of autologous PRP as a biorevitalizing</p>

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Date

03/05/2013 – 30/09/2013

Name and address of employer

Praximedica Diagnostic Analytical Laboratory, Via Magna Grecia n.117, 00183, Rome

Main activities and responsibilities

Diagnostic analysis in the Microbiology and Molecular Biology Laboratories.  
Analysis of biological samples cultured in solid agar medium for the growth of bacteria and fungi  
Molecular analysis of biological samples through real time PCR to identify bacteria or virus presence

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EDUCATION AND TRAINING

	31/05/2017	
Prize	Supervisor of a thesis on a new storage method for decellularized human dermis winner of prize “ <b>Dott. Marco Masini</b> ”, Faculty of Pharmacy and Biotechnology, Alma Mater Studiorum University of Bologna	
	24/09/2016	
Prize	Winner of fellowship for a <b>training project in Clinical Biology</b> “Congresso Nazionale ENPAB “I nuovi orizzonti della Biologia”, Caserta, Italy	
	19/05/2016	
Prize	Winner of prize “ <b>Travel awards/ Italian Young Scientists ranking</b> ”. <b>WBC 2016 International Travel award Committee, Montreal, Canada</b>	
	11/06/2014	
Prize	Winner of <b>HAUSMANN &amp; CO./PATEK PHILIPPE 2014</b> prize for researches in oncologic field	
Date	03/12/2021	
Qualification	<b>Specialization</b> in Clinical Pathology and Clinical Biochemistry – Sapienza University of Rome	
Date	01/04/2012 – 31/03/2013	
	<b>Fellowship</b> “Teresa Ariaudo 2011”	
Principal subjects/ professional competence	Molecular mechanisms of human papillomavirus (HPV) biology and carcinogenesis in relation to their effects on fibroblast growth factor receptors (FGFRs). Analysis of HPV16 E5 protein effects on FGFR-mediated differentiation and proliferation processes in human keratinocytes by immunofluorescence, Western Blotting, real time RT-PCR methods, MTT test, BrdU assay and microRNA Taqman assays.	
Institute	<b>Istituto Pasteur-Fondazione Cenci Bolognetti</b> , “Sapienza” University of Rome. Piazzale Aldo Moro 5 00185 Rome, Italy	
	Research project title: “Role of the keratinocyte growth factor receptor (KGFR/FGFR2b) expression and signalling in the impairment of the epidermal cell differentiation induced by HPV16 E5 protein” The research project was carried out in the laboratory under quality control system.	
	Supervisor: Maria Rosaria Torrisi Professor	

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	07/2012
Institute	University of Palermo
Qualification	Qualification as a biologist
	01/11/2008 - 26/01/2012
Qualification	<b>Ph.D. in Experimental Medicine</b> (cycle XXIV)
Principal subjects/ professional competences	<p>Molecular mechanisms involved in the modulation of fibroblast growth factor receptors (FGFRs) expression and their role in the differentiation, proliferation and phagocytosis processes in human epithelial cells. Endocytosis and signaling of receptor tyrosine kinases.</p> <p>Isolation and characterization of fibroblast and keratinocytes cells from human skin biopsies. Analysis of FGFR-mediated differentiation, proliferation, endocytic trafficking and phagocytosis processes in human keratinocytes by immunofluorescence, Western Blotting, real time RT-PCR methods and MTT test.</p> <p>The research projects was carried out in the laboratory under quality control system.</p>
University	<p>“Sapienza” University of Rome – Clinical and Molecular Department, directed by Maria Rosaria Torrisi Professor, Faculty of Medicine and Psychology, Piazza Sassari 3, 00161 Rome</p> <p>Doctoral thesis title: “Role of keratinocyte growth factor receptor (KGFR/FGFR2b) expression and signaling in the control of human keratinocyte differentiation”</p> <p>Supervisor: Maria Rosaria Torrisi Professor</p>
Meetings	<ol style="list-style-type: none"><li>1. <b>Purpura V</b>, Belleudi F, Torrisi MR. “Role of KGFR/FGFR2b in the control of human keratinocyte differentiation”. 11° Convegno Federazione Italiana Scienze della Vita (FISV), Riva del Garda 23-25 september, 2009.</li><li>2. Belleudi F, Leone L, <b>Purpura V</b>, Cannella F, Scrofani C, French D, Torrisi MR. “16E5 affects epithelial growth and differentiation inhibiting the FGFR2b endocytic degradation”. 1<sup>st</sup> International Workshop on Papillomavirus E5 Oncogene, Anacapri 15-17 may, 2010.</li><li>3. <b>Purpura V</b>, Raffa S, Belleudi F, Pittoni V, Di Somma S, Torrisi MR. “Il silenziamento genico come strumento per lo studio della trasduzione del segnale in fisiopatologia cardiaca e cutanea”. First National GREAT Network Congress, Roma 19-21 october, 2010.</li><li>4. <b>Purpura V</b>, Belleudi F, Torrisi MR. “Human keratinocyte early differentiation: involvement of KGFR/FGFR2b expression and signalling”. ABCD Congress 2011, Ravenna 8-10 september, 2011.</li><li>5. <b>Purpura V</b>, Belleudi F, Torrisi MR. “Human keratinocyte early differentiation: involvement of KGFR/FGFR2b expression and signalling”. Joint National Ph.D. Meeting, Gubbio 20-22 october, 2011.</li><li>6. <b>Purpura V</b>, Caputo S, Belleudi F, Torrisi MR. “Role of the keratinocyte growth factor receptor (KGFR/FGFR2b) expression and signalling in the impairment of the epidermal cell differentiation induced by HPV16 E5 protein”. 12° Convegno Federazione Italiana Scienze della Vita (FISV), Roma 24-27 September, 2012.</li><li>7. <b>Purpura V</b> (speaker) “Human keratinocyte early differentiation: involvement of KGFR/FGFR2b expression and signalling” BeMM Symposium 2012, Roma 13 April 2012.</li><li>8. <b>Purpura V</b>, Ghetti M., Bondioli E., Minghetti P., Melandri M., Marchesini A., Parodi PC., Riccio M. “Biological Characterization of Adipose Tissue in Reconstructive and Regenerative Hand Surgery: a Preclinical Study” 21° SIUST Congress (Società Italiana Ustioni), Torino 16-20 November 2014”</li><li>9. <b>Purpura V</b>, Ghetti M, Bondioli E, Melandri D, Riccio M. “Regenerative Approach in the</li></ol>



Treatment of Peripheral Nerve Injuries: Decellularized Human Dermis (HDM) as a Biological Scaffold for Adipose Derived Stem Cells” Società Italiana Biomateriali (SIB), Portonovo (Ancona), 3-5 June 2015

10. Ghetti M, Barbieri D, Gherardi M, Laurita R, Stancampiano A, **Purpura V**, Melandri D, Minghetti P, Bondioli E, Colombo V “Evaluation of Sterility, Viability and Integrity of Infected Skin Tissue after Cold Atmospheric Plasma Treatment” Società Italiana Biomateriali (SIB), Portonovo (Ancona), 3-5 June 2015

11. **Purpura V** (speaker) Decellularized dermal scaffold for soft tissue regeneration. III ISMuLT Scientific workshop, Biomaterials and regenerative Medicine for the musculoskeletal system. Bologna, 24 September 2015.

12. **Purpura V** (speaker) Bondioli E, Orlandi C, Fini M, Cerasoli S, Cenacchi G, Melandri D. Scientific Design, realization and clinical use of human derived dermal matrix (HDM) in regenerative medicine. World Biomaterial Congress 2016 Montreal, Canada 17-22 May 2016

13. **Purpura V** (speaker) Bondioli E, Graziano A, Trovato L, Melandri D, Ghetti M, Marchesini A, Cusella de Angelis MG, Benedetti L, Ceccarelli G, Riccio M. “Caratterizzazione biologica del tessuto cutaneo disgregato e sue applicazioni nell’ambito della Medicina Rigenerativa”, Corato (Bari) 23-24 September 2016.

14. **Purpura V** (speaker), Bondioli E, Melandri D, Longobardi P. Regenerative Medicine: HBOT combined with Platelet Rich Plasma/Platelet gel and reconstructive surgery. World Union of Wound Healing Societies (WUWHS), Firenze, 25-29 September 2016

15. **Purpura V** (speaker), Bondioli E, Minghetti P, Melandri D. “Production and clinical distribution of a decellularized human dermis: the experience of Emilia Romagna Regional Skin Bank” **26<sup>th</sup> Congress of the European Association of Tissue Banks**” Treviso, 18-20 October 2017.

Publications

D’Acunto C, Riccioni L, Scarpellini F, **Purpura V**, Melandri D. Eccrine Angiomatous Hamartoma with Atypical Localization Treated by Mohs Micrographic Surgery. *Adv Skin Wound Care* (2023) 36:1-4. doi: 10.1097/01.ASW.0000936008.05741.7d. PMID: 37338952

**Purpura V**, Benedetti S, Bondioli E, Scarpellini F, Giacometti A, Albertini MC, Melandri D. The Use of Quercetin to Improve the Antioxidant and Regenerative Properties of Frozen or Cryopreserved Human Amniotic Membrane. *Antioxidants* (2022) 11:1250. doi: 10.3390/antiox11071250.

Lughi M, Campagna A, **Purpura V**, Bondioli E. “A new treatment for the reconstruction of the medial compartment of the ankle: the combined use of biological materials” *Joints* (2021) 7:228–232. DOI <https://doi.org/10.1055/s-0041-1730380>.

D’Acunto C, **Purpura V**, Scarpellini F, Liardo EV, Melandri D. “Painful, plantar nodules in cutaneous macroglobulinosis: Successful treatment with rituximab and bendamustine.” *JAAD Case Rep* (2020) 6: 981-983 doi: 10.1016/j.jdc.2020.07.027

D’Acunto C, Orlandi C, **Purpura V**, Melandri D. “The use of allograft skin for the treatment of Darier disease.” *Adv Skin Wound Care* (2020) 33:1-4 DOI: 10.1097/01.ASW.0000694144.13825.59

Melandri D, **Purpura V**, Orlandi C, Minghetti P, Bondioli E. “Skin Regeneration”, Capitolo 11. Libro: “Stem Cells” Società Editrice Esculapio (2020).

Bernagozzi F, Orlandi C, **Purpura V**, Morselli PG, Melandri D. “The enzymatic debridement for the treatment of burns of in-determinate depth” *J Burn Care Res* (2020) 41:1084-1091. DOI: 10.1093/jbcr/iraa051

Melandri D, Marongiu F, Carboni A, Rubino C, Razzano S, **Purpura V**, Minghetti P, Bondioli E. “A New Human-Derived Acellular Dermal Matrix for 1-Stage Coverage of Exposed Tendons in the Foot” *The International Journal of Lower Extremity Wounds* (2019) doi: 10.1177/1534734619884422



Bondioli E, **Purpura V**, Orlandi C, Carboni A, Minghetti P, Cenacchi C, De Luca G, Capirossi D, Nigrisoli E, Melandri D. "The use of an acellular matrix derived from human dermis for the treatment of full-thickness skin wounds" *Cell and Tissue Banking* (2019) 20:183-192.

**Purpura V**, Bondioli E, Cunningham EJ, De Luca G, Capirossi D, Nigrisoli E, Drozd T, Serody M, Aiello V, Melandri D. The development of a decellularized extracellular matrix-based biomaterial scaffold derived from human foreskin for the purpose of foreskin reconstruction in circumcised males. *Journal of Tissue Engineering* (2018) 9:2041731418812613.

Folli S, Curcio A, Melandri D, Bondioli E, Rocco N, Catanuto G, Falcini F, **Purpura V**, Mingozi M, Buggi F, Marongiu F. "A New Human-Derived Acellular Dermal Matrix for Breast Reconstruction Available for the European Market: Preliminary Results." *Aesthetic Plastic Surgery* (2018) 42:434-441.

Ghetti M., Papa V., Deluca G., **Purpura V.**, Ruscelli P., Melandri D., Capirossi D., Nigrisoli E., Minghetti P., Bondioli E. & Cenacchi G. "Histological and ultrastructural evaluation of human decellularized matrix as a hernia repair device" *Ultrastruct Pathol* (2017) 1:1-7.

Ghetti M., Bondioli E., **Purpura V.**, Cenacchi G., Ruscelli P., Melandri D. "Decellularized human dermal matrix produced by a skin bank: a new treatment for abdominal wall defects" *Annal Ital Chir* (2017), 5: 443-448.

Gasperoni M., Neri R., Carboni A., **Purpura V.**, Morselli P.G., Melandri D. "The Alexander surgical technique for the treatment of severe burns" *Annals of Burns and Fire Disasters* (2016); 29: 281-285.

**Purpura V.**, Bondioli E., Melandri D., Parodi PC., Valenti L. and Riccio M. (2016) "The Collection of Adipose Derived Stem Cells using Water-Jet Assisted Lipoplasty for their Use in Plastic and Reconstructive Surgery: A Preliminary Study" *Front. Cell Dev. Biol.*, 22 November 2016 4:136

Quinto C, **Purpura V**, Bondioli E, Minghetti P, Venezian T, Tschon M, Giavaresi G, Ghetti M, Fini M, Melandri D, Toni A. Liofilizzazione del derma omologo decellularizzato: un esempio di collaborazione tra banche dei tessuti. (2016) *Trapianti* Vol. 20 n.1.

**Purpura V**, Bondioli E, Graziano A, Trovato L, Melandri D, Ghetti M, Marchesini A, Cusella De Angelis MG, Benedetti L, Ceccarelli G, Riccio M. Tissue characterization after a new disaggregation method for skin Micro-grafts generation. *Journal of Visualized experiments* (2016) Mar 4;(109). doi: 10.3791/53579.

D'Acunto C, Neri I, **Purpura V**, Orlandi C, Melandri D. Extravasation injury of balanced electrolyte solution simulates the clinical condition of necrotizing fasciitis: a case report (2015) 3:466-468.

**Purpura V** #, Persechino F#, Belleudi F, Scrofani C, Persechino S and Torrisi MR. Decreased expression of KGF/FGF7 and its receptor in pathological hypopigmentation". *Journal of Cellular and Molecular Medicine* (2014) 18: 2553-2557.

Belleudi F#, **Purpura V**, Caputo S and Torrisi MR. "The keratinocyte growth factor regulates autophagy in keratinocytes: a peculiar dual role in the control of both autophagosome formation and turnover". *Autophagy* (2014); 10: 803-821.

**Purpura V**#, Belleudi F#, Caputo S and Torrisi MR. "HPV16 E5 and KGFR/FGFR2b interplay in differentiating epithelial cells". *Oncotarget*. 2013; 4: 192-205.

Belleudi F#, **Purpura V**#, Torrisi MR. "The receptor tyrosine kinase FGFR2b/KGFR controls early differentiation of human keratinocytes". *PLoS One*. 2011; 6 e24194.

# Contribute equally

Belleudi F, **Purpura V**, Scrofani C, Persechino F, Leone L, Torrisi MR. "Expression and signaling

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of the tyrosine kinase FGFR2b/KGFR regulates phagocytosis and melanosome uptake in human keratinocytes". *FASEB J.* 2011; 25: 170-81.

Belleudi F, Leone L, **Purpura V**, Cannella F, Scrofani C, Torrisi MR. "HPV16 E5 affects the KGFR/FGFR2b-mediated epithelial growth through alteration of the receptor expression, signaling and endocytic traffic". *Oncogene.* 2011;30: 4963 -76.

28/11/2005 - 12/03/2008

Qualification

**Degree in Medical, Molecular and Cellular Biotechnology (110/110 magna cum laude)**

Principal subjects/ professional competence

Molecular mechanisms involved in mitochondrial toxicity induced by antiretroviral therapy in vivo and in vitro. Western Blotting, cytofluorimetric analysis, retroviral infection. Sample preparation for analysis by mass spectrometry

University

"Sapienza" University of Rome, Faculty of Medicine and Surgery  
Laboratory of Cellular Biology, Istituto Nazionale Malattie Infettive "L.Spallanzani" (IRCSS) Via Portuense 292, 00149 Roma

Degree thesis title: "The role of the prohibitin in the mitochondrial toxicity during HIV infection"

Supervisor: Mauro Piacentini Professor

1/10/2001 - 17/02/2005

Qualification

**Degree in Medical Biotechnology (110/110 magna cum laude)**

Principal subjects/ professional competence

Analysis of the protein-protein interaction on the plasma membrane in the *Saccharomyces cerevisiae* model system using the "reverse Ras Recruitment System". *Saccharomyces cerevisiae* culture and genetic manipulation. *Escherichia coli* culture for plasmid amplification and propagation, genetic engineering techniques (agarose gel electrophoresis, restriction enzymes digestion of plasmid DNA, DNA ligation) DNA minipreparation, Maxiprep of plasmid DNA, Replica plating.

University

University of Palermo, Faculty of Mathematics, Physics and Natural Science  
Laboratory of Biology and Genetics. Department of Biopathology and Biomedical Methodology, Via Divisi 83, 90133 Palermo

Degree thesis title: "Protein-protein interaction: the reverse Ras Recruitment System".

Supervisor: Dr. Gregorio Seidita

09/1996 - 07/ 2001

Qualification

Maturità Classica (93/100)

School

Liceo Classsico Statale "G. Meli" Via Aldisio 2, 90146 Palermo



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Mother tongue Italian

Other languages English

**Comprehension skills** GOOD

**Writing skills** GOOD

**Verbal skills** GOOD

Dates 1/10/2005 – 29/10/2005

Qualification **CERTIFICATE IN ENGLISH STUDIES**

School LANGUAGE STUDIES INTERNATIONAL (LSI), HAMPSTEAD, LONDON

Course LSI INTENSIVE 30

Level UPPER INTERMEDIATE

**PERSONAL SKILLS AND  
COMPETENCES**

I am a friendly outgoing person who enjoys team working. I am interested in working abroad to know new and stimulating working multicultural environments. Infact, I am convinced that the exchange of different research experiences among people from different countries produces better results in the scientific field. I think that the comparison with other people from different countries is important for a personal and professional enrichment.

**TECHNICAL SKILLS  
AND COMPETENCES**

GOOD KNOWLEDGE OF WORD, POWER POINT, EXCEL, PHOTOSHOP, INDESIGN

**DRIVING LICENCE(S)**

Driving licence B

Signature

Cesena 29/09/2023