

PERSONAL INFORMATIONS GIULIO GHERSI

- [REDACTED]
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- from 2016 – 2018 Vice-Director Advanced Technology Network Center (ATeN Center) University of Palermo.
- from 2011 – 2015 PI CHAB Mediterranean Center for Human Health Advanced Biotechnology (PONA3_00273).
- from 2010 - today CEO ABIEL S.r.l.
- from 2001 – today Professor in Biochemistry, Applied Biochemistry, Biomedical Engineering and Materials Engineering to University of Palermo.
- from 2000 – to 2003 Researcher to the University of Palermo.
- from 1999 – to 1999 Visiting professor to the State University of New York in Stony Brook (SUNY)
- from 1995 to 1998 Post Doc to the Lombardi Cancer Center della Georgetown University di Washington DC.
- from 1992 to 1994 Post Doc to the Cellular and Developmental Biology Department of University of Palermo.
- from 1989 to 1992 PhD student in Cellular and Developmental Biology University and of Palermo and c/o Ecole Normale du Physiopathologie du development, in Paris - director Dr. J.P. Thiery.
- from 1986 to 1988 Fellowship oorm Assessorato Sanità della Regione Sicilia, about research on cell-cell and cell-matrix interaction in pathological systems.

Projects:

- From 2020 to 2023 Unit ABIEL PI for Horizon 2020 project "Engineered Artificial Proteins for Biological Light-Emitting Diodes - ENABLED" (Abiel Funding about 360 K€).
- from 2016 to 2017 Participing as responsible for 2 WP in REACT project PON01_01314, PI prof. Gaetano Giammona.
- from 2015 to 2019 Unit ABIEL PI for Horizon 2020 project "Diabetes Reversing Implants with enhanced Viability and long-term Efficiency – DRIVE" (Abiel funding about 0,9 Mil. €).
- From 2011 to 2015 PI UniPa PON01_01287 "SIB: Soluzioni avanzate basate su biomateriali a matrici composite complesse per la riparazione e la rigenerazione della cartilagine articolare mediante tecniche mininvasive" (UniPA funding 1,6 Mil. €).
- From 2011 to 2014 Participing to Italian PRIN project "Identificazione di sistemi di rilascio ottimali per i Nucleic Acid Based Drugs e studio dei meccanismi di azione in alcuni modelli di patologie umane infiammatorie e tumorali" (90 k€).
- form 2010 to 2015 Scientific Manager of PONA3_00273 "Mediterranean Centre for Human Health Advanced Biotechnologies" (23 Mil. €).
- from 2010 to 2010 PI IDRA project "Costruzione mediante la tecnologia del DNA ricombinante di due vettori d'espressione per la produzione in vitro di termolisina e enterochinasi" Ministero Italiano Attività Produttive (37,5 k€).

Patents:

"Procedimento di Preparazione di Scaffold Polimerici Preangiogenizzati" (N°: RM2009A000073 in data 18-02-2009).

"Collagenasi ricombinanti di *C. Hystoliticum* e metodo per la loro produzione" (N° RM2009A000661 in data 15/12/2009).

2010 - PCT/IB2010/055840 P.C.T.

Patent n. 2784050 □ Country: Canada □ Vs. Rif.: COLLAGENASES □ Ns. Rif.: BX2665R/RVP/rabi □

Europe patent n. EP10818077.9 □ Vs. Rif.: COLLAGENASES □ Ns. Rif.: BE1115R/RVP/rabi.

Italian patent Ns Rif RBI14376-IT Vs Rif BIOREACTOR N. 102016000005975 of 22/01/2016.

Italian patent n. 102016000019151 of 26/02/2016 V Rif.: Mix Collagenases Ns. BI4957R/BI/rmc

Publications (12 years) :

- Donghai Chen; Alanna Kennedy; Jaw-Yuan Wang; Wei Zeng; Qiang Zhao; Michael Pearl; Mengzhen Zhang; Zhenhe Suo; Jahn M. Nesland; Yuhuan Qiao; Ah-Kau Ng; Naoko Hirashima; Tetsu Yamane; Yoshiyuki Mori; Masako Mitsumata; **Gherzi G.**; Wen-Tien Chen. (2006). Activation of EDTA-resistant gelatinases in malignant human tumors. *Cancer Research*. Vol. 66. pp. 9977-9985. ISSN: 0008-5472.
- **Gherzi G.**; Zhao Q; Salamone M; Yeh Y; Zucker S; And Chen Wt. (2006). The protease complex consisting of dipeptidyl peptidase IV and seprase plays a role in the migration and invasion of human endothelial cells in collagenous matrices. *Cancer Research*. Vol. 66 (9). pp. 4652-4661. ISSN: 0008-5472.
- **Gherzi G.**, and Salamone M. (2007). Matrix metalloproteases, serine proteases and their inhibitors in angiogenesis. In: Marianna Lauricella and Sonia Emanuele. *Novel Apoptotic Drugs in Targeting Tumor Cells*. (vol. 37/661 (2), pp. 129-153). ISBN: 978-81-308-0201-5.
- **Gherzi G.** (2007). Roles of molecules involved in epithelial/mesenchymal transition during angiogenesis. *Frontiers in Bioscience*. vol. 13, pp. 2335-2355 ISSN: 1093-9946.
- La Carruba V., Carfi Pavia F., Brucato V., Piccarolo S. and **Gherzi G.** (2008) PLLA biodegradable scaffolds for angiogenesis via Diffusion Induced Phase Separation (DIPS). *International Journal of Material Forming*, pp. 1-4. ISSN 1960-6206
- Zanoteli, E.; van, de, V; Bonten, E.J.; Hu, H.; Mann, L.; Gomero, E.M.; Harris, A.J.; **Gherzi G.**; d'Azzo, A. (2010) Muscle degeneration in neuraminidase 1 deficient mice results from infiltration of the muscle fibers by expanded connective tissue. *Biochim. Biophys. Acta* 1802, pp. 659-672.
- Salamone, M.; Seidita, G.; Cuttitta, A.; Rigogliuso, S.; Mazzola, S.; Bertuzzi, F.; **Gherzi G.** (2010) A new method to value efficiency of enzyme blends for pancreatic tissue digestion. *Transplantation Proceeding* 42 (6), pp. 2043-48.
- Carfi Pavia F, La Carrubba V, Gherzi G, Brucato VMB (2010). A COMPOSITE PLLA SCAFFOLD FOR REGENERATION OF COMPLEX TISSUES. *INTERNATIONAL JOURNAL OF MATERIAL FORMING*, vol. 2010, p. 571-574, ISSN: 1960-6206, doi: 10.1007/s12289-010-0834-9
- Dispenza C, Sabatino MA, Grimaldi N, Bulone D, Bondi ML, Casaletto MP, Rigogliuso S, Adamo G, **Gherzi G** (2012). Minimalism in Radiation Synthesis of Biomedical Functional Nanogels. *BIOMACROMOLECULES*, vol. 13, p. 1805-1817, ISSN: 1525-7797, doi: 10.1021/bm3003144
- Scaffaro R, Lo Re G, Rigogliuso S, **Gherzi G** (2012). 3D polylactide-based scaffolds for studying human hepatocarcinoma processes in vitro. *SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS*, vol. 13, ISSN: 1468-6996, doi: 10.1088/1468-6996/13/4/045003
- BRUCATO VM, CARFI PAVIA F, RIGOGLIUSO S, LA CARRUBBA V, **GHERSI G** (2012). Poly lactic acid based scaffolds as graft for small-diameter arterial replacement. *JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE*, vol. 6 (Suppl. 1), ISSN: 1932-6254, doi: 10.1002/term.1586
- Dispenza C, Rigogliuso S, Grimaldi N, Sabatino MA, Bulone D, Bondi ML, **Gherzi G** (2013). Structure and biological evaluation of amino-functionalized PVP nanogels for fast cellular internalization. *REACTIVE & FUNCTIONAL POLYMERS*, vol. 73, p. 1103-1113, ISSN: 1381-5148, doi: 10.1016/j.reactfunctpolym.2013.04.011
- Carfi Pavia F, La Carrubba V, **Gherzi G**, Brucato V (2013). Poly-left-lactic acid tubular scaffolds via diffusion induced phase separation: Control of morphology. *POLYMER ENGINEERING AND SCIENCE*, vol. 53, p. 431-442, ISSN: 0032-3888, doi: 10.1002/pen.23273
- Carfi Pavia F, LA CARRUBBA V, **Gherzi G**, Brucato V (2013). Poly-Left-Lactic Acid tubular scaffolds via Diffusion Induced Phase Separation (DIPS): control of morphology. *POLYMER ENGINEERING AND SCIENCE*, vol. 53, p. 431-442, ISSN: 0032-3888, doi: 10.1002/pen.23273
- Pitarresi G, Fiorica C, Palumbo FS, Rigogliuso S, **Gherzi G**, Giammona G. (2013). Heparin functionalized polyaspartamide/polyester scaffold for potential blood vessel regeneration. *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH. PART A*, vol. 102, p. 1334-1341, ISSN: 1549-3296, doi: DOI: 10.1002/jbm.a.34818
- Palumbo FS, Rigogliuso S, **Gherzi G**, Pitarresi G, Fiorica C, Di Stefano M, Giammona G (2013). Dexamethasone Dipropionate Loaded Nanoparticles Of □-Elastin-G-Plga For Potential Treatment Of Restenosis. *MOLECULAR PHARMACEUTICS*, vol. 10, p. 4603-4610, ISSN: 1543-8384
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