

Carmela Morrone

Phd Student

Molecular and Cell Biology, Pathology, Biochemistry



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DOCTORAL RESEARCH

“Identification and testing of new therapeutic targets for the prevention of chronic lung allograft dysfunction.”

Helmholtz Zentrum, Munich, Germany

PROFICIENCIES

ANIMAL MODEL WORKING

Ex Vivo Lung Perfusion (EVLP); Orthotopic Murine Left Lung Transplantation; Mouse intubation; Blood and broncho-alveolar lavage fluid (BAL) collection; Tissue and organs harvesting; tissue processing.

STAINING

Masson Trichrome; Hematoxylin and Eosin; Giemsa and May Grünwald; Immunofluorescence; Immunohistochemistry; Live-imaging; Imaging via Confocal and regular light Microscope.

MOLECULAR AND CELL BIOLOGY

Western Blot; SDS-PAGE; Protein isolation from tissue and cells; FRET-probe based protease activity assay; RNA interference; Cell culture; Agarose and polyacrylamide Electrophoresis; Real Time RT-PCR; Nucleic acid extraction from blood and other biological fluids; Preparation of plasma, serum and BAL (broncho-alveolar lavage); ELISA assays.

CHEMISTRY

SPS (solid phase synthesis), manual and automatic; Purification by Reverse Phase HPLC; Quantify by Spectrophotometer.

PUBLICATIONS

Götzfried J, Smirnova NF, **Morrone C**, Korkmaz B, Yildirim AÖ, Eickelberg O, Jenne DE. *Preservation with at-antitrypsin improves primary graft function of murine lung transplants*. J Heart Lung Transplant. 2018 Aug; 37 PMID:29776812

Smirnova NF, Conlon TM, **Morrone C**, Dorfmueller P, Humbert M, Stathopoulos GT, Umkehrer S, Pfeiffer F, Yildirim AÖ, Eickelberg O. *Inhibition of B cell-dependent lymphoid follicle formation prevents lymphocytic bronchiolitis after lung transplantation*. JCI Insight 2019 Feb; 7;4(3). pii: 123971. doi: 10.1172/jci.insight.123971

Rehm SRT, Smirnova NF, **Morrone C**, Götzfried J, Feuchtinger A, Pedersen J, Korkmaz B, Yildirim AÖ, Jenne DE. *Premedication with a cathepsin C inhibitor alleviates early primary graft dysfunction in mouse recipients after lung transplantation*. Sci. Rep. 2019. PMID: 31289357

Sarker RSJ, Conlon TM, **Morrone C**, Srivastava B, Konyalilar N, Verleden SE, Bayram H, Fehrenbach H, Yildirim AÖ *CARM1 regulates senescence during airway epithelial cell injury in COPD pathogenesis*. AJPLC Mol Phys 2019. PMID: 31461302

COURSES

- 2018 CPC International Research School Graduation.
- 2017 Optimizing Writing Strategies for Getting published.
- 2016 Graph Pad Prism v.6 beginner course.
Animal theoretical and practical course.
Helmholtz Zentrum, Munich, Germany
- 2018 Felasa B Course.
Berlin
- 2018 Lung transplantation Microsurgery Course.
Zurich
- 2017 Phd course on “Type 2 immune responses-aspects in infection, tissue remodeling, cancer and allergy”.
ZAUM, Munich

RESEARCH ACTIVITIES

- 2019 Research stay in Anschutz Medical Campus.
University of Colorado, Denver, USA
- 2015 Research Fellowship on “Complications after Community Acquired Pneumonia”.
- 2014 Research Fellowship on “Role of Proteomics in the Early Detection of Lung Transplant Rejection”.
Ospedale Maggiore, Milan, Italy

AWARDS

- 2017 CPC Munich Research School Grant
10.000€ award for the top three best Research projects
- 2011-2013 Scholarship University of Calabria
Merit
- 2008-2011 Scholarship University of Calabria
Merit

POSTERS & CONFERENCES

ATS Conference	POSTER - 2018
ISHLT Annual Meeting and Scientific Sessions	MINITALK - 2018
DZL Annual Meeting	TALK AND POSTER - 2018
DZL Annual Meeting	TALK - 2017
Pittsburgh-Munich International Lung Conference	POSTER - 2016
Munich-Pittsburgh Lung Conference	POSTER - 2015

REFERENCES

Dr. Önder Yildirim

POSITION	Head of Research Group & Leadership Team
EMPLOYER	Helmholtz Zentrum, Munich, Germany
PHONE	+49-89-3187-4037 (Work)
EMAIL	oender.yildirim@helmholtz-muenchen.de

Prof. Dr. Oliver Eickelberg,

POSITION	Professor
EMPLOYER	University of Colorado, Denver, USA
EMAIL	oliver.eickelberg@ucdenver.edu

EDUCATION

2011 - 2013	Master Degree FIRST CLASS Molecular Biology <i>University of Parma, Italy</i>
2008 - 2011	Bachelor Degree FIRST CLASS Biological Science <i>University of Calabria, Cosenza, Italy</i>
2004 - 2008	Diploma Science High School <i>High School "Fortunato Bruno", Cosenza, Italy</i>

COMPUTER SKILLS

ADVANCED	Microsoft Word Microsoft Excel Microsoft PowerPoint Protein Tools GraphPad Prism v.6
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LANGUAGES

FLUENT	Italian English
A2	German