Carmela Morrone

Phd Student

Molecular and Cell Biology, Pathology, Biochemistry



DOCTORAL RESEARCH

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

Helmholtz Zentrum, Comprehensive Pulmonary Center, LMU (Faculty of Medicine), 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; kinetic enzymatic assay; FRET-probe based protease activity assay; RNA interference; Cell culture; Agarose and polyacrylamide Electrophoresis; Real Time RT-PCR; Cell Count; Nucleic acid extraction from blood and other biological fluids; Preparation of plasma, serum and BAL (bronchoalveolar lavage); ELISA assays (manual and semi-automatic).

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**, Dorfmuller 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

RESEARCH ACTIVITIES

2019 Research stay in Anschutz Medical Campus. University of Colorado, Denver, USA

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.

Hemholtz 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

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

POSTERS & CONFERENCES

POSTER - 2018

American Journal of Respiratory and Critical Care Medicine

Increased Peribronchiolar and Perivascular Cysteine Protease Activity Is Associated with Bronchiolitis Obliterans Syndrome

MINITALK - 2018 Annual Meeting and Scientific Sessions

TALK AND POSTER - 2018

DZL Annual Meeting

TALK - 2017

ELD Working Group Meeting,

TALK - 2017

Fifth Annual Meeting of the DZL

POSTER - 2016

Pittsburgh-Munich International Lung Conference,

POSTER - 2015

Munich-Pittsburgh Lung Conference

AWARDS

2017 CPC Munich Research School Grant 10.000€ award for the top three best

Research projects

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

THESIS ON "PNA ANTI-MICRORNA: FUNCTIONAL STUDY O

Molecular Biology University of Parma, Italy

2008 - 2011 Bachelor Degree

Biological Science

University of Calabria, Cosenza, Italy

2004 - 2008 Diploma

Science High School

High School "Fortunato Bruno", Cosenza, Italy

COMPUTER SKILLS

ADVANCED Microsoft Word

Microsoft Excel Microsoft PowerPoint

Protein Tools GraphPad Prism v.6

LANGUAGES

FLUENT Italian

English

A2 German