

Jacopo
Dolcini

WORK EXPERIENCE

01/11/2016 - CURRENT

MD, residency in Hygiene and Preventive Medicine

S.O.D. of Hospital Hygiene Hospital "Umberto I" and Dept. of Biomedical Sciences and Public Health

As a Physician in residency training in Hygiene, Preventive Medicine and Public Health I worked on many different fields related to human health and disease. During residency school a mandatory rotation it's organized by the school to reach skills and goals through many working experiences in different departments as requested by Italy National Public Health Ministry. These experiences included:

Survey of infection control in surgery (emergency surgery, general surgery, otorinolaringoiatric surgery, transplants surgery) and neonatal departments through clinical and informatics systems. Production of a monthly report with statistical data as rate of infection and rate of antibiotic profilaxis accordance to protocols.

Compilation of a Regional Tumours Register, codifying all cancers diagnosed between 2010-2012 through codification rules set by AIRC and based on ICD-10 classification

Health assessment impact of pollution coming from industries through environmental epidemiology studies. Health assessment has been performed both during normal survey programs both during emergency situations like fire of manufacturing facilities

Conduction and publication of population epidemiology studies regarding health issues like depression. Active Participation to national health survey program PASSI promoted by national public health system.

Conduction of AUDIT programs in hospital wards.

Production of reports regarding quality indicators of regional hospitals and long term care facilities

Production of guidelines for regional hospital reality regarding antibiotics stewardship, nutrition, clinical pathways

Participation to academic research programs regarding: environmental epidemiology, antibiotic and health care related infections surveillance

Ancona, Italy

21/03/2018 - 01/04/2019 - New York, United States

Post Doc

Columbia University Mailman School of Public Health

Worked as post doc into Prof Bacarelli's lab of " Laboratory of Precision Environmental Health" working on several projects related to following fields: environmental exposure, epigenetic modifications, molecular epidemiology, mitochondria and aging. During this experience I worked side by side with an international and multidisciplinary staff involving biomedical researchers, statisticians, epidemiologists and physicians. My research activity has been focused on data coming from Veteran's Affairs Normative Aging Study and has been conducted in close cooperation with members and staff of Columbia Mailman School of Public Health and Harvard T.H. Chan School of Public Health.

My activity resulted in three published papers (two original articles and one review) in Aging, Environmental Epidemiology and Epidemiology and Prevention and my findings brought new knowledge about the relationship between epigenetic aging measures and mitochondria and the effect of mitochondria on temperature and cognitive function relationship.

New York, United States

01/11/2013 - 31/10/2016

● **PhD**

Polytechnic University of Marche

Molecular Medicine and Biotechnology activities as a PhD student focusing my attention on Epigenetics processes and Molecular Signalling

Ancona, Italy

04/02/2014 - 31/10/2016 - Naples

● **PhD internship**

Dept. of Medical Biotechnology and Molecular Medicine "Federico II university of Naples"

Molecular Medicine and Biotechnology activities:

- Western Blot and Co-IP
- Chromatin Immuno-Precipitation (CHIP)
- DNA, RNA, Protein extraction
- qPCR, RT-PCR
- ELISA
- Densitometry
- Statistical Analysis
- NGS approach
- Cell culture
- Cell treatment
- Transfection

- Maxi Prep
- Transformation

I used these techniques to pursue my PhD research activity that was focused on studying epigenetic modification of two genes, SNAIL and WIF1, involved into epithelial mesenchymal transition after TGF- β triggering. This is an important pathway involved in fibrosis and metastatic invasiveness during tumor progression

Naples, Italy

01/03/2012 - 01/10/2013

● MD internship

Internship at Dept. of Clinical Neurology "Umberto I" hospital, Ancona focusing on various neurological fields: Alzheimer disease, stroke unit, multiple sclerosis, migraine, neurooncology.

Direct clinical activity on patients as a MD and activity of clinical research with publication as co-author of two original articles.

28/04/2020 - 31/07/2020 - Ancona, Italy

● MD

Marche regional public health system

Working as an MD into local department of Preventive Medicine and Infectious Disease Control. This contract has been activated as emergency recruitment to help during COVID-19 pandemic. Related to this, my main activities were diagnosis and control through swap organization and management of COVID-19 cases and their contacts, isolation of new cases and contact tracing and report production regarding cases incidence and prevalence and analyses of trends in my local area of work. During this period I also worked at extraordinary vaccination campaign to recover from blocks caused by COVID-19 national lockdown.

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

English

Listening
C1

Reading
C2

Spoken
production
C1

Spoken
interaction
C1

Writing
C1

EDUCATION AND TRAINING

22/09/2005 - 25/10/2011 - Ancona, Italy

- **Medical Degree cum laude and academic honors**

Polytechnic University of Marche

01/11/2013 - 31/10/2016 - Ancona, Italy

- **PhD**

Polytechnic University of Marche

01/11/2016 - CURRENT - Ancona, Italy

- **Residency in Hygiene and Preventive Medicine**

Polytechnic University of Marche

01/11/2011 - 16/02/2012 - Ancona, Italy

- **Training for license to practice of medicine.**

Polytechnic University of Marche

PUBLICATIONS

- **Publications**

First author

Publication: New epigenomic and genomic frontiers in personalized medicine:
direct customer testing, are we ready?

Journal: Epidemiol Prev 2019; 43 (4):295-299. doi: 10.19191/EP19.4.P295.080

Co- author of a report in 2017 for Marche's hospitals entitled:

"Studio di prevalenza delle infezioni correlate all'assistenza e uso degli antibiotici negli ospedali della Regione Marche. Report 2017"

<http://hdl.handle.net/11566/252570>

- **Mitochondria and Aging in Older Individuals: An Analysis of DNA Methylation Age Metrics, Leukocyte**

2020 <https://pubmed.ncbi.nlm.nih.gov/32009007/>

DOI: 10.18632/aging.102722

First Author

<https://pubmed.ncbi.nlm.nih.gov/32009007/>

DRIVING LICENCE



Driving Licence: B

CONFERENCES AND SEMINARS

Seminars

Poster co-author at international SIBBM seminar "Frontiers in molecular biology"

Conferences

First author of conference poster at National Congress of AIE (italian epidemiology association).

Title: " SINTOMI DEPRESSIVI NELL' AREA VASTA 2 DELLA REGIONE MARCHE: DATI PASSI 2008-2018"

Language: Italian

Abstract co-author at VIII National Meeting of SIMPIOS:

"Sorveglianza e caratterizzazione molecolare di batteri produttori di carbapenemasi: implementazione del protocollo e fase pilota"

<http://hdl.handle.net/11566/259179>

Abstract first author of following work presented at SITI National Meeting 2017 in Turin:

"Alimentazione ed alterazioni del profilo cronobiologico e della risposta allo stress in lavoratori turnisti: fase pilota. "

<http://hdl.handle.net/11566/252258>

Abstract co-author of following works presented at SITI National Meeting 2017 in Turin:

"Sperimentazione di un sistema di analisi epidemiologica dei plasmidi di resistenza in ceppi di *klebsiella pneumoniae* resistenti ai carbapenemi"

<http://hdl.handle.net/11566/252575>

"Studio di prevalenza sulle infezioni correlate all'assistenza: regione Marche 2016"

<http://hdl.handle.net/11566/252579>

Abstract co-author SINDEM VIII congress

"Presence and gender differences of behavioural and psychological symptoms in the early phase of Alzheimer's Disease" <http://hdl.handle.net/11566/126265>

Abstract co-author on "NEUROLOGICAL SCIENCES": Diagnostic delay in migraine without aura: Different role of instrumental exams

<http://hdl.handle.net/11566/131864>

Abstract co-author on "NEUROLOGICAL SCIENCES":

Differences in diagnostic delay between migraine with and without aura

<http://hdl.handle.net/11566/131862>

25/08/2019 - 29/08/2019 - ISEE International Meeting 2019

- **Impact of the mitochondrial genome on the relationship between short-term changes outdoor temperature**

Poster presentation at ISEE International Meeting 2019

25/08/2020 - 29/08/2020 - ISEE Virtual Meeting 2020 Washington

- **Mitochondria and Aging in Older Individuals: An Analysis of DNA Methylation Age Metrics, Leukocyte**

Poster presentation at ISEE Virtual Meeting 2020 Washington

ORGANISATIONAL SKILLS

- **Organisational skills**

Excellent organisational skills acquired during my PhD experience as a member of a lab team, working on many projects simultaneously. I have improved these skills as main responsible in charge of many projects during my Post-Doc experience at Columbia University.

Excellent managerial skills developed coordinating work and activities of lab and MD students during their training.

I have improved these skills also during my one year work in hospital, reorganizing my survey infection control activity together with my supervisors and promoting the activity of tumors register.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Excellent communication skills acquired during team working as a MD and as a PhD student. I have improved these skills also as a tutor supervising lab students and MD students during their thesis work.

High capability of changing communication methods depending on contest.

I have improved these skills also during residency work in hospital, interacting with many different professional figures (medical doctors, biologists, technicians, researchers).

Moreover I improved my capabilities of working in an international academic research team, while my Post-Doc experience at Columbia University. This experience has allowed me to work with different academic professional figures (technicians, epidemiologists, toxicologist, biostatisticians) in a international contest.

JOB-RELATED SKILLS

Job-related skills

High capability of problem solving, developed facing new every day challenges both in research and medical field. My experience in many different work settings, both national and international, allowed me to develop a polyhedric and adaptable problem solving attitude

Statistical analysis of data correlated both to basic research activity and to my hospital activity.

PRESENTATIONS

Presentations

Oral presentation at National PhD meeting on April 2016 in Salerno (ITALY)

Poster presentation at International Society of Enviromental Epidemiology (ISEE) hold in Utrecht 2019

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Google Drive | Zoom | Facebook | Microsoft Office | Skype | R language | STATA 15

HONOURS AND AWARDS

02/01/2012

**Annual Degree Award "Carla Federici" (2012) Assegnato da
Università Politecnica delle Marche** - Università Politecnica delle
Marche

18/12/2017

Fanesi's Award - Ancona's Medical Board Association
This Award was a fellowship that I used to pursue my activity during my
foreign year at Columbia Mailman School of Public Health