CURRICULUM VITAE ET STUDIORUM

Name:	Gennaro	**Address:**	Via Tansillo 38 80125, Napoli
Surname:	Gambardella	**Telefono:**	+39 3480581991
City and Birth:	Napoli, May 18/05/82	**E-mail:**	gennaro.gmb@gmail.com

EDUCATION

2010-2013: PhD degree in Computational Biology and Bioinformatics (obtained on May 17th with University of Naples, Federico II).

2008-2009: M.Sc. degree in Computer Science, 110/110. Internship at the Telethon Institute of Genetics and Medicine (TIGEM).

2005-2006: B.Sc. degree in Computer Science, 103/110 (Laurea I livello - 3 years University studies, Federico II, Naples).

1996-2001: I.T.I.S. "F. Giordani", graduate with 74/100

RESEARCH EXPERIENCE

From 2020 (Sep.) –to date: Junior PI at TIGEM (Telethon Institute of Genetics and Medicine)

From 2020 (May) –to date: Research Associate at Department of Chemical, Materials and Production Engineering of the University of Naples Federico II

From 2018 (May) – 2020 (May): Junior PI at Department of Chemical, Materials and Production Engineering of the University of Naples Federico II

From 2016 (Sep.) – 2018 (Apr.): Post-Doc Scientist in Diego di Bernardo's lab at TIGEM (Telethon Institute of Genetics and Medicine). Research activity: Inference of gene network from HiSeq single-cell transcriptional data.

2014 (Jan.) – 2015 (August): Post-Doc Scientist at King's College of London (KCL) in Francesca Ciccarelli's Lab (we moved in London from January 2014).

2013 (July) – 2013 (Dec.): Post-Doc Scientist at European Institute of Oncology (IEO) in Francesca Ciccarelli's Lab, where Research activity: Evolution of synchronous colorectal cancers from HiSeq genomic and transcriptional data.

GRANTS

2020 (Jen): **My First AIRC Grant:** Explore therapeutic resistance of triple negative breast cancer with single-cell transcriptomics and lineage tracing (100,000€ x 5 years).

2018 (Jen): **STAR Grant:** Exploiting intra-tumor heterogeneity for personalized cancer medicine (100,000€).

AWARDS

2018 (Jen): **Veronesi Fellow**.

2016 (January): Poster presentation at Festival of genomics in London. "*A genomic approach to study synchronous colorectal cancer*". Poster has **been awarded of the first place**.

2014 (May 13): Lecture at EBI (UK, Cambridge) for the Systems Biology Modelling Cycle course: *Inference methods for biological networks*.

2013 (Nov. 8-12): Talk at RECOMB/DREAM 2013 Systems Biology conference (Canada, Toronto). "*A computational high-throughput approach to discover post-translational modulators of transcription factor activity from gene expression profiles*"

2013 (April 22-23): Lecture at EPIGEN course: *"Introduction to reverse-engineering methods"*.

| **2010 (November):** | Talk at RECOMB/DREAM 2010 Systems Biology conference: "*Identification and Analysis of tissue-specific co-expression networks from human samples*". |
| **2010 (July):** | Selected with travel fellowship for the PASCAL course (5-13 July). |

TECHNICAL SKILLS

Programming Language: R, C++, Java, MATLAB, SQL, Java Servlets, JSP, HTML, XML, JDOM and PHP.

SELECTED PUBBLICATIONS

Gambardella et al., A single-cell analysis of breast cancer cell lines to study tumour heterogeneity and drug response. Nat. Commun. 13, 1714 (2022).

Gambardella et al. - GADD34 is a modulator of autophagy during starvation – Science Advances. (2020)

Gambardella et al. - Patients with genetically heterogeneous synchronous colorectal cancer have rare damaging germline mutations in immune-related genes – Nature Comm. (2016)

Gambardella et al. - A tool for visualization and analysis of single-cell RNA-seq data based on text-mining. – Frontiers in genetics (2019)

Gambardella et al. - The impact of microRNAs on transcriptional heterogeneity and gene co-expression across single embryonic stem cells – Nature Comm. (2017)

Gambardella et al. - MEGA-V: detection of variant gene sets in patient cohorts – Bioinformatics (2016)

G. Gambardella et al. - A reverse-engineering approach to dissect post-translational modulators of transcription factor's activity from transcriptional data – BMC Bioinformatics (2015)