



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID:4091

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Oncologia ed Emato-Oncologia, responsabile scientifico il Prof. Pier Paolo Di Fiore

Angela Lombardi

CURRICULUM VITAE

INFORMAZIONI PERSONALI

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| Cognome | Lombardi |
| Nome | Angela |
| Data Di Nascita | [20/03/1975] |

OCCUPAZIONE ATTUALE

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| Incarico | Struttura |
| Laureato frequentatore | DIPARTIMENTO FARMACOLOGIA E BIOSCIENZE UNIVERSITA' DEGLI STUDI DI MILANO |

ISTRUZIONE E FORMAZIONE

| Titolo | Corso di studi | Università | anno conseguimento titolo |
|-------------------------------------|--|-------------------------------------|---------------------------|
| Laurea Magistrale o equivalente | Scienze Biologiche | Università dell'Insubria | 2013 |
| Specializzazione | | | |
| Dottorato Di Ricerca | Scienze Veterinarie e dell'allevamento | Università degli studi di Milano | 2017 |
| Master | | | |
| Diploma Di Specializzazione Medica | | | |
| Diploma Di Specializzazione Europea | | | |
| Altro | BORSISTA | ISTITUTO neuroLOGICO "CARLO BESTA " | 2018 |

ISCRIZIONE AD ORDINI PROFESSIONALI

| Data iscrizione | Ordine | Città |
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LINGUE STRANIERE CONOSCIUTE



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| lingue | livello di conoscenza |
| Inglese | Buona |
| Francese | Buona |
| Spagnolo | Scolastico |

ATTIVITÀ DI FORMAZIONE O DI RICERCA

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| descrizione dell'attività |
| descrizione dell'attività DI DOTTORATO |
| <p>The objective of my study was to produce edible vaccines against verocytotoxic <i>Escherichia Coli</i> by exploiting transformed tobacco plants for seed-specific expression of genes encoding Fed-A protein and VT2e-B subunit of the Shiga-like toxin. To reach this goal I identified and isolated the genes encoding for F18 fimbriae (responsible for the adherence of bacteria on small intestinal enterocytes) and the B subunit of VT2e-B (responsible for binding the toxin to specific receptors on the cell surface) and then expressed them in tobacco seeds. The two plasmids containing the genes were transfected by agro-infection in <i>Nicotiana tabacum</i>. VT2e-B and FedA fimbriae genes were stably incorporated into the tobacco plant genome and were transcribed efficiently and specifically in the seeds by the nuclear apparatus of the plant, and these genes were inherited by the next generation. The transformed tobacco seeds were orally administered to piglets and we observed a protective effect against the VTEC strain after challenge</p> |

ATTIVITÀ PROGETTUALE

| Anno | Progetto |
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| 2017/2018 | Anticholinergic receptors antibodies, cardiovascular autonomic profile and dysautonomia symptoms relationships in Pure Autonomic Failure, Amyotrophic Lateral Sclerosis and Postural Orthostatic Tachycardia Syndrome: evidence for a pathophysiology based therapeutic new strategy". |
| 2014-2016 | PhD student in Veterinary and Animal Sciences at the Department of Health, Animal Science and Food Safety of University of Milan (Italy). Supervisor Prof. ssa Antonella Baldi, Full Professor in Animal Nutrition, University of Milan. Title of PhD project: <i>Molecular Farming applied to Veterinary Science: Nicotiana tabacum plants expressing antigenic proteins from Escherichia coli as a model of edible vaccine in weaned piglets.</i> |
| 2015-2016 | I worked in the U.S. at the University of Denver Colorado at the Department of Infectious diseases with MD Edward Janoff and I focused my attention on nasopharyngeal infective bacteria (<i>Hemophilus influenzae Moraxella catharralis</i> and <i>Staphylococcus aureus</i> and their role in class switch and memory B-cells using immunologic techniques such as ELISA assays and FACS analyses. I participated in a project relies with <i>Streptococcus pneumoniae</i> used to study the mechanism for mucosal protection by immunoglobulin. |
| 2012-2013 | Master degree in Biological Sciences at the University of Insubria, Italy. Experimental 1-year thesis: "Anti-tumor vaccination CIITA driven MHC class II expression tumor cells in a model of murine mammary adenocarcinoma. I came to understand the role of immunity in response to a tumor more deeply. In particular, my thesis, proved the action of a vaccine that stimulated a response against the tumor. In particular, we developed a tumor vaccine that exploited adaptive immunity. In this work, I appreciated that when tumor cell lines, are engineered to express the major histocompatibility complex class II and are then grafted in tumor cell lines, where we normally do not observe the expression of MHCII, it leads to the rejection of the syngenic tumors in mice. |



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| 2008-2009 | Bachelor Degree in Biological Sciences at the University of Insubria, Italy. Title of the experimental thesis: "High performance Chromatography (HPLC) in characterizing of products obtained by biotransformation with bacterial oxygenase "Department of structural and Functional Biology Laboratory of Organic Chemistry and Microbiology. University of Insubria (Varese) Italy, directed by Prof. S Banfi and Prof. P Barbieri. |
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TITOLARITÀ DI BREVETTI

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| Brevetto |
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CONGRESSI, CONVEGNI E SEMINARI

| Data | | | Titol o | S e |
|--|---|-------------------|------------|--------|
| 28 Sept.-1 Oct. 2011. | Annual Meeting Italian Society of Immunology, Clinical Immunology and Allergology and the German Society for Immunology. | Riccione (Italy) | | |
| August 22- 27 /2013 | 15 th International Congress of Immunology | Milano | | |
| November 15 th -16 th 2013 | Neuroimmune pharmacology | Varese | | |
| 29 maggio 2014 | Microbiologia e nuove acquisizioni immunologia | Segrate (Milano) | | |
| 29 maggio 2014 | Sviluppo di nuovi probiotici | Segrate (Milano) | | |
| 16 al 18 giugno 2014 | LXVIII° Convegno Nazionale S.I.S.Vet, Convegno SICV, XI Convegno AIPVet e XII Convegno SIRA- | Pisa | | |
| 17-19 june 2014 | The first Conference of the International Society for Plant Molecular Farming, | Berlino (Germany) | | |
| 28th 30th October 2014 | The II International congress "Food Technology, Quality and Safety" and XVI "Feed Technology Symposium" Novi Sad, Serbia Institute of Food Technology | Novi Sad(Serbia) | | |
| 9-10 june 2015 | XXI° ASPA Congress Animal Science and Production Association | Milano | | |
| 15-17 giugno 2015 | Ist VAS Days : Veterinary and Animal Science PhD Course Annual Meeting Sal | Milano | | |
| 16 Ottobre 2015 | "L' innovazione scientifica per la nutrizione: prodotti di origine animale | Lodi | | |
| 8-19 June | 2nd VAS Days: Veterinary and Animal | Milan | | |



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| □2016 | Science PhD Course Annual Meeting | | | |
| 13-16 of June.2016 | LXX° Congress: Convegno Nazionale S.I.S.Vet, Convegno SICV, XIII Convegno AIPVet e So.Fi.Vet III Convegno RNIV. | Palermo | | |

PUBBLICAZIONI

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| Libri |
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| Articoli su riviste |
| <p>Rossi L., Reggi S., Zaninelli M., Saccone F., Gottardo D., Crotti A., Lombardi A., Dell’Orto V., Rebucci R., Baldi A. 2013. Evaluation of antigens stability of tobacco seeds as edible vaccine against VTEC strains. HAF Vol. II, NO 2s. Riviste.unimi.it/index.php/haf.</p> <p>Lombardi A., Bandi, S-., Rahkola. J., Janoff, EN., Rossi. L., Baldi, A. 2016. Avidities Of Human Monoclonal Antibodies Derived From An Adult Immunized With Pneumococcal Polysaccharide Vaccine. International journal of health Animal science and food safety. Vol. III, NO 1s. Riviste.unimi.it/index.php/haf. (Abstract). DOI 1313072283-3927/7029.</p> <p>Lombardi A., Maggi R. New insight of medical and molecular farming (MMF): the plants derived drugs. <i>MOJ Anat & Physiol.</i> 2018;5(5):311–313. DOI: 10.15406/mo-jap.2018.05.00216</p> <p>Lombardi A., Mason H. Medical Molecular Farming: plants-based edible vaccines a viable alternative to challenge infectious. Submitted (November 2018) to <i>Biotechnology and Bioengineering (ID: 18-1013)</i></p> |

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| Atti di convegni |
| <p>Abstract and oral presentation Rossi L., Dell’Orto V., Giromini C., Saccone F., Lombardi A., Baldi A. PRODUCTION OF BACTERIAL ANTIGENS IN PLANTS EXPRESSION SYSTEM. LXVIII° Convegno Nazionale S.I.S.Vet, Convegno SICV, XI Convegno AIPVet e XII Convegno SIRA 16 al 18 giugno 2014 – Pisa □</p> <p>Abstract Lombardi A., Saccone F., Rebucci R., Pinotti L., Rossi L. TOBACCO SEEDS AS EDIBLE VACCINE IN PIG LIVESTOCK The first Conference of the International Society for Plant Molecular Farming Berlin, 17-19 june 2014. □</p> <p>(Abstract and poster) Lombardi A., Saccone F., Rebucci R., Luciano Pinotti L. Rossi L. TOBACCO SEEDS AS EDIBLE VACCINE IN PIG LIVESTOCK The II International congress “Food Technology, Quality and Safety” and XVI “Feed Technology Symposium” Novi Sad, Serbia 28th 30th October 2014 Institute of Food Technology in Novi Sad</p> <p>Rossi L., Onelli E., Moscatelli A., Lombardi A., Baldi A. “MORPHOLOGICAL EVALUATION OF NICOTIANA TABACUM PLANTS TRANSFORMED FOR THE EXPRESSION OF VEROCYTOTOXIC ESCHERICHIA COLI ANTIGENS” XXI° ASPA Congress Animal Science and Production Association Milan, Italy 9-12 June 2015</p> <p>□ Abstract and oral presentation</p> <p>Rossi L., Onelli E., Moscatelli A., Lombardi A., Baldi A. “ EVALUATION OF NICOTIANA TABACUM PLANTS TRANSFORMED FOR THE EXPRESSION OF VEROCYTOTOXIC ESCHERICHIA COLI ANTIGENS” Ist VAS Days 2015: Veterinary and Animal Science PhD Course Annual Meeting Sala Napoleonica Via S. Antonio 15 –Milan 15 –17 July 2015</p> |



Lombardi A., Rossi L., Reggi S., Zaninelli M., Saccone F., Gottardo D., Crotti A., Dell'Orto V., Rebucci R. Baldi A. "EVALUATION OF ANTIGENS STABILITY OF

TOBACCO SEEDS AS EDIBLE VACCINE AGAINST VTEC STRAIN". Congress: "L' innovazione scientifica per la nutrizione: prodotti di origine animale." 16 Ottobre 2015 Polo Universitario Veterinario di Lodi Università degli Studi di Milano Aula Magna Via dell'Università 6 Lodi

(Abstract). Lombardi A., Bandi S., Rahkola JT. Rossi L., Janoff EN., Baldi A. "AVIDITIES OF HUMAN MONOCLONAL ANTIBODIES DERIVED FROM AN ADULT IMMUNIZED WITH PNEUMOCOCCAL POLYSACCHARIDE VACCINE" 2nd VAS Days 2016: Veterinary and Animal Science PhD Course Annual Meeting Sala Napoleonica Via S. Antonio 15 –Milan 8-19 June

(Abstract):

"PIGLETS FED SEED-BASED ORAL VACCINE AGAINST VEROCYTOTOXIC ESCHERICHIA COLI – IN VIVO STUDY Rossi L., Filipe J., Lombardi A., Gottardo D., De Martini E., Alborali GL., Reggi S., Crotti A., Baldi A. LXX° Congress: Convegno Nazionale S.I.S.Vet, Convegno SICV, XIII Convegno AIPVet e So.Fi.Vet III Convegno RNIV. 13-16 of June. Palermo, Italy, Via delle scienze 19.

ALTRE INFORMAZIONI

Periodo di inattività dovuto a gravi problemi di salute

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

Luogo e data: ____Milano____ 15-11-2018_____

Aurelio Lombardi