

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI
(art. 46 D.P.R. n. 445/2000 e s.m.i)
DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ
(art. 47 D.P.R. n. 445/2000 e s.m.i)

La sottoscritta
COGNOME Francocci
NOME Fedra
NATA A: Bracciano PROV.__(RM)____
IL_28/11/1981
ATTUALMENTE RESIDENTE A: _
__ PROV.__(VT)_____
INDIRIZZO _____C. A.P._
TELEFONO__

Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;

Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive (*);

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia,

dichiara sotto la propria responsabilità:

che quanto dichiarato nel seguente curriculum vitae et studiorum
comprensivo delle informazioni sulla produzione scientifica
corrisponde a verità

Curriculum vitae et studiorum

Personal information

Name: Fedra Francocci

Address:

Date and place of birth: 28/11/1981 – Bracciano (RM)

email:

phone:

Work experience

1. **“Strategic Planning, Networking, External Relationships”** (cococo) – July 2017 – October 2017. *Institute of Agro-environmental and Forest Biology (IBAF), National Research Council (CNR); Reference Angelo Massacci; Contract ICI+/2014/342-817 – Technological eco-innovation for quality control and the decontamination of waters and soils*, “Grant Agreement LIFE13 ENV/IT/000813 - LIFE SMART4Action - Sustainable Monitoring And Reporting To Inform Forest- and Environmental Awareness and Protection” e “LifeWatch-ITA-Componente italiana della E-infrastructure Europea LifeWatch

Sector

Biobased Industries, Biomass, Biorefinery, Bioeconomy, Bioremediation, Circular Economy, Public-Private Partnership;

Responsibilities

- Project scouting at national and European level on issues related to the use of plants for the monitoring and mitigation of anthropic impacts and for the transformation of plant material into energy and by-products;
- Creation of partnerships with national and international research organizations and private companies in the ecosystem services sector and sustainable management of agro-forestry production;
- Planning activities on the subject of land reclamation through phytotechnologies and exploitation of the plant biomass uses. The project development activities were carried out in synergy with the dedicated referents in the Lazio Region and the municipalities of the Valle del Sacco territories;
- Consortium design, project writing and management for the preparation of the European proposal BBI 2017.D2 - INTEGRATED MULTI-VALORIZATION OF ALGAE INTO ADVANCED MATERIALS AND HIGH ADDED-VALUE ADDITIVES coordinated by CNR (Giuseppe Torzillo);
- Participation, organization and preparation of materials (work-programme analysis and slides) to promote IBAF's exploitation of research results and **dissemination** such as the national launch of SC2 call for proposal (Rome), Ecomondo (Rimini) and IFIB (Rome);

17/11/2017



- Organization, coordination and participation for IBAF at the Climathon event (Magliano Sabina October 27-28, 2017) related to climate change in the contest of Contratti di Fiume;
- Planning of activities related to the valorization of competences in IBAF and DTA Department with regards to the participation to the “Contratti di Fiume” at Regional Level;
- Preparation of PON proposal related to the promotion of education in the field of cultural heritage in collaboration with other CNR institutes and schools to increase public awareness about environmental issues;
- Dissemination activities related to the valorization of both IBAF and CNR competences in the contest of Bioeconomy. Participation to the Researcher’s Night (Frascati) in collaboration with StarProBio and BIOWAYS.

2. **“Strategic Planning, External Relationships”** (postdoc) – January 2017 – May 2017
Institute of Agro-environmental and Forest Biology (IBAF), National Research Council (CNR); Reference Angelo Massacci;

Sector

Biobased Industries, Biomass, Biorefinery, Bioeconomy, Bioremediation;

Responsibilities

- Institutional relations with private and public stakeholders in the field of Research and Innovation associated to the building of new value chains both at national and international level. An example is the negotiation in Lazio Region for the development of a value chain for contaminated biomass used in phytoremediation or the participation to international roundtables in the contest of biobased sector;
- Public funding opportunities at EU and national level and identification of other financial instruments;
- Coordination of the internal biobased division in order to develop collaborative project among different CNR Departments finalised to the participation at European call for proposals; in this contest activities are also related to the collection and revision of scientific materials and the writing of reports/documents for the European Commission and the Biobased Industries Consortium.
- Support in consortia and projects building; an example is the preparation of the D2 BBI.2017 interdepartmental proposal or the regional project on industrial hemp from contaminated environments (IBAF);
- Strategic Planning; examples are managing of IBAF participation to “Contratto di Fiume” in Lazio Region (Medio Tevere, Treja and Sacco rivers) or promoting the participation of CNR to the European Focus Group on Industrial Hemp (under submission);
- Managing and defining messaging and corporate communication strategy. Examples are the creation of a Twitter profile @BioCnr, the preparation of brochures for the biobased division in collaboration with other departments, the agreement with Ecodidattica (network of schools) or also the presentation of CNR biobased strategies for dissemination (invited speaker at BBIJU infoday).

3. **“Project Initiator, Project Manager”** (postdoc) - December 2015 – December 2016
Institute of Agro-environmental and Forest Biology (IBAF), National Research Council (CNR) - Porano (TR); Reference Alberto Battistelli;

Sector

Biomass, Green Energy, Biorefinery, Bioeconomy, Bioremediation, Agroforestry, Plant Biochemistry, Ecophysiology;

Responsibilities

Developing projects and finding associated research activities for the valorization of agroforestry biomasses with industrial application purposes. Activities include setting of physico-chemical characterization procedures and biomass transformation into biochemical intermediates.

In parallel: fund raising and preparation/writing of proposals at regional (bando R&S per aggregazioni), national (Joint Research Project-CNR) and European (Horizon2020-BBI.2016) level. Organization of collaborative projects and consortia building mainly in the bio-based sector.

4. **“Project Initiator”** (freelance) - July 2015 – November 2015

Bourne Laboratory, Royal Holloway University of London (Egham, UK) and Institute of Agro-environmental and Forest Biology (IBAF), National Research Council (CNR); Ref. Alessandra Devoto, Angelo Massacci;

Sector

Biomass, Bioconversion, Anaerobic Digestion, Biological pretreatment of feedstocks, Applied molecular biology, Bioremediation;

Responsibilities

Building of Consortia, Project and proposal writing for the participation to Horizon2020 call for proposal (BBI.2015).

✧ **“Researcher”** (postdoc) – July 2014 – June 2015

Institute-of-sciences-of-food-production (ISPA), National Research Council (CNR) - Lecce; Ref. Palmiro Poltronieri;

Sector

Plant Innate Immunity, Ecophysiology, Plant-Pathogen Interaction;

Responsibilities

Project development and experimental procedures setting.

✧ **“Project Initiator”** (Consultant) – April-May 2013

Great Lengths Italia Company - Nepi (VT) – Italy - Ref. Dr. Paolo Aleandri;

Sector

Applied research, hair care industry;

Responsibilities

Investigating methods to test pigments bounded to natural hair. Project development and experimental procedures setting.

✧ **“Researcher, Project Manager”** (Postdoc, ERC Grant – FuelPath) – March 2012 – June 2014

Department of Biology and Biotechnology Charles Darwin BBCE Sapienza University of Rome, P.le Aldo Moro 5, 00185 - Roma; Ref. Prof. Felice Cervone;

Sector

Bioconversion, Plant Biochemistry, Plant-Pathogen Interaction;

Responsibilities

In charge of developing new strategies and procedures. Organization of work individually and in team, papers and project writing and students' supervision.

✧ **"Lecturer"** – June 2012

Institute of Alta Formazione (IAF), Via G. Baglivi, 6 – 00161, Rome

Sector

Nutrition;

Responsibilities

Lesson preparation and teaching at the post-graduate Course in "Diet and Clinical Nutrition" with respect to GMO related aspects of nutrition.

✧ **"Researcher"** (Postdoc) – February 2011 – January 2012

Research Centre in Applied Environmental Sciences, Sapienza University of Rome, P.le Aldo Moro 5, 00185 – Roma; Ref. Prof. Daniela Bellincampi;

Sector

Plant growth and immunity; bioconversion;

Responsibilities

Objectives identification and project organization. Students' supervision and work coordination.

✧ **"Researcher"** (Fellowship) - September 2010 – January 2011

from Intitute Pasteur - Fondazione Cenci Bolognetti performed at the Department of Biology and Biotechnology Charles Darwin BBBCD Sapienza University of Rome, P.le Aldo Moro 5, 00185 - Roma; Ref. Prof. Felice Cervone;

Sector

Plant innate immunity, Plant-pathogen interaction;

Responsibilities

Research activities in order to study the role of plant cell wall during a plant pathogen interaction.

✧ **"Researcher"** (Fellowship) - October 2009 – August 2010

Department of Biology and Biotechnology Charles Darwin BBBCD Sapienza University of Rome, P.le Aldo Moro 5, 00185 - Roma; Ref. Prof. Giulia De Lorenzo;

Sector

Plant innate immunity;

Responsibilities

Research activities and experimental procedure development. Student supervision and teaching.

✧ **"Students' tutoring"** (Fellowship) - Academic year 2007-2008

Sapienza University of Rome - Departments of Cellular Biology and Plant Biology

Sector

Biology, teaching, tutoring;

Responsibilities

Organization of didactic lectures and integrated didactic activities in 1st year Biology courses.

- ✧ **“Researcher”** (PhD Fellowship) - October 2006 – September 2009

Department of Biology and Biotechnology Charles Darwin BBCD Sapienza University of Rome, P.le Aldo Moro 5, 00185 – Roma and Centro Nacional de Biotecnología (CNB) Ciudad Universitaria de Cantoblanco, 28049 Madrid, Spain; Ref. Prof. Giulia De Lorenzo and Prof. Jose Juan Sanchez-Serrano;

Sector

Plant innate immunity, Bioenergy, plant pathogen interaction, plant biochemistry;

Responsibilities

Identification of objectives and targets of research. Development of experimental procedures. Data analysis and translation of results to industrial application. Supervision of undergraduate students and teaching activities.

Education and Training

- ✧ **April 2010 – PhD** in Botanical Science and Plant Biotechnology -
Co-tutored PhD between Sapienza University of Rome and Universidad Autonoma de Madrid;
- ✧ **February 2006 - Master degree** with honorary mention in Industrial and Environmental Biotechnology - Sapienza University of Rome;
- ✧ **February 2004 - Bachelor degree** with honorary mention in Biotechnology - Sapienza University of Rome;
- ✧ **July 2000 – Secondary School Diploma** in classical studies with full marks -
Liceo Classico Mariano Buratti, Civita Castellana (VT).
- ✧ **July 1999 – Diploma of Theory of Music and Solfeggio** (three year course) - Giulio Briccialdi State-recognized Institute of Music, Terni.

Personal Skills

Languages

- ✧ **English:** Good
Good writing skills as to scientific papers, reports and projects. Good Spoken English due to collaboration and working experience at the University of London and at the University of Edinburgh (see additional information) and also to participation to international conferences and meetings.
- ✧ **Spanish:** Very good
Very good understanding and spoken language due to long permanence in Spain during the PhD. Good written abilities.
- ✧ **French:** Basic
Good understanding due to traveling and basic lesson at school. Basic written and spoken level mainly.

Digital competence

- ✧ Very good command of Microsoft Office tools (Word, Excel and Power Point), Internet browsers, Electronic mail, Meeting and Web Conferencing tools, Project preparation and

- communication (Project board, Discussion board);
- ✧ Basic knowledge of data computational analysis applications acquired during a training course and a specific training (Venice Summer school, see additional information);
- ✧ Good command of graphic design applications (Photoshop, Adobe Illustrator).

Technical competences

- ✧ Deep knowledge of the principal laboratory techniques in molecular biology (PCR, cloning, etc.);
- ✧ Good practice in the use of laboratory instruments (spectrophotometer, luminometer, microscopes, etc.) and more sophisticated instrumentation (HPLC, CCD camera, etc.) acquired thanks to lab work during thesis, PhD and postdoc research activities finalized to international scientific papers publication.

Other skills and competences

- ✧ Excellent **communication** skills due to the ability to identify and modulate language and references according to target and to the nature of the audience. One example was the success during the negotiate with agricultures, managers, public authorities, students, academic and volunteers, as in the case of consortia building (BBI.2015/2016/2017);
- ✧ Excellent **negotiating** attitude developed during the search and the negotiation for land use permissions finalized to the participation to a European call for proposal (BBI.2016);
- ✧ Remarkable strong and innate attitude to **networking** as in case of roundtable planning for business, environmental and social themes discussion and workshop finalised to the writing of European projects (BBI.2015-2016-2017);
- ✧ Capacity of identify critical situations, ability to **solve problems**, creativity and **entrepreneurial spirit** (also under stress condition) matured in a number of different contexts related, for example, to the preparation and submission of proposal or negotiation (professional experience). These personal skills were built in sport activities (volleyball) and artistic experience (dance, music, theatre) both performed at, respectively, agonistic and professional level;
- ✧ Innate attitude to be inclusive, sharing, **team working** in professional and personal contexts. These attitudes were cultivated in activities as volunteering with the disabled, house sharing during studies, and working in multicultural contexts.
- ✧ **Proactive** behaviour and **organizational** attitude demonstrated, as an example, during the identification of a target project call, development of a proposal scheme, capacity of include new ideas coming from different partners and preparation of project proposal (freelance researcher in 2015).

Additional Information

Work experience - abroad

“Researcher” (postdoc) - August 2016

The Edinburgh Cell Wall Group, Institute of Molecular Plant Sciences, University of Edinburgh, Daniel Rutherford Building, The King's Buildings, Max Born Crescent, Edinburgh EH9 3BF, United Kingdom; Ref. S. Fry;

Under the Short Term Mobility (STM) Program of cooperation with CNR and foreign Universities and Research Institutions. Project and proposal building and writing, Research activities.

“Researcher” (postdoc) June – July 2011 and June – July 2010

School of Biological Sciences, Bourne Laboratories, Royal Holloway University of London, Egham Surrey TW20 0EX, Ref. A. Devoto;

Under the joint projects within British-Italian partnership programme for early career researchers. In charge of developing and carrying on research activities.

“Researcher” (PhD Fellow) June – September 2008 and June – September 2009

Centro Nacional de Biotecnología (CNB) Ciudad Universitaria de Cantoblanco, 28049 Madrid, Spain; Ref. J.J. Sanchez-Serrano;

Research activities under the PhD programme.

“Researcher” (freelance) July – August 2006

Institute of Molecular Plant Sciences, Daniel Rutherford Building, School of Biological Sciences, Kings Buildings, Edinburgh EH9 3JH UK; Ref. G. Loake;

Research activity and Project writing.

Teaching activity

“Lecturer” - Academic year 2010 - 2013

Faculty of Scienze Matematiche Fisiche e Naturali, Sapienza University of Rome, P.le Aldo Moro 5, 00185 Roma;

Teaching (frontal lessons, examinations, students tutoring) Biochemistry and Plant Eco-physiology at the academic Master Course in Environmental and Industrial Biotechnology and in the Master Course in Ecobiology.

Patents

2008 Cervone F., De Lorenzo G., Bellincampi D., Ferrari S., Lionetti V., Salvi G., Francocci F., Pontiggia D., “Use of plants with reduced levels of de-esterified homogalacturonan in the cell wall or portions thereof for improving the saccharification of plant biomasses”
IT_RM2008A000696 - US 12/648,644

Books and Articles

1) Francocci F and Rea IB, “Composition of plant Biomass. Biotech engineering of cell wall to optimize biofuel production”. Book chapter in “Biotransformation of agricultural waste and by-products. The Food, Feed, Fibre, Fuel (4F) economy”, edited by Palmiro Poltronieri

and Oscar Fernando D'Urso; Elsevier Science. ISBN: 9780128036488.
<https://books.google.es/books?id=1rkWBwAAQBAJ>

- 2) Tomassetti S, Pontiggia D, Rea B, Verrascina I, Francocci F, Cervone F, Ferrari S. Controlled expression of pectic enzymes in *Arabidopsis thaliana* enhances bio mass conversion without adverse effects on growth. *Phytochem* Aug 2014 in Press
- 3) Cook C*, Francocci F*, Cervone F, Bellincampi D, Bolwell PG, Ferrari S and Devoto A. Combination of pretreatment with white rot fungi and modification of primary and secondary cell walls improves saccharification. *BioEnergy Research*, 5 August 2014. DOI: 10.1007/s12155-014-9512-y (*) Authors that equally contributed to this work
- 4) Francocci F, Bastianelli E, Lionetti V, Ferrari S, De Lorenzo G, Bellincampi D, Cervone F. Analysis of pectin mutants and natural accessions of *Arabidopsis* highlights the impact of de-methyl-esterified homogalacturonan on tissue saccharification. *Biotechnology for Biofuels*. 2013 Nov 18;6 (1):163. doi: 10.1186/1754-6834-6-163.
- 5) Lionetti V, Francocci F, Ferrari S, Volpi C, Bellincampi D, Galletti R, D'Ovidio R, De Lorenzo G, Cervone F. Engineering the cell wall by reducing de-methyl-esterified homogalacturonan improves saccharification of plant tissues for bioconversion. *Proc Natl Acad Sci U S A*. 2010 Jan 12;107(2):616-21.
- 6) Consonni C, Bednarek P, Humphry M, Francocci F, Ferrari S, Harzen A, Ver Loren van Themaat E, Panstruga R. Tryptophan-derived metabolites are required for antifungal defense in the *Arabidopsis mlo2* mutant. *Plant Physiol*. 2010 Mar;152(3):1544-61.

(*) ai sensi dell'art. 15, comma 1 della Legge 12/11/2011, n. 183 le certificazioni rilasciate dalla P.A. in ordine a stati, qualità personali e fatti sono valide e utilizzabili solo nei rapporti tra privati; nei rapporti con gli Organi della Pubblica Amministrazione e i gestori di pubblici servizi, i certificati sono sempre sostituiti dalle dichiarazioni sostitutive di certificazione o dall'atto di notorietà di cui agli artt. 46 e 47 del DPR 445/2000

N.B:

- 1) Datare e sottoscrivere tutte le pagine che compongono la dichiarazione.
- 2) Allegare alla dichiarazione la fotocopia di un documento di identità personale con firma leggibile, in corso di validità.
- 3) Le informazioni fornite con la dichiarazione sostitutiva devono essere identificate correttamente con i singoli elementi di riferimento (esempio: data, protocollo, titolo pubblicazione ecc...).
- 4) Il CNR, ai sensi dell'art. 71 e per gli effetti degli artt. 75 e 76 del D.P.R. 445 del 28/12/2000 e successive modifiche ed integrazioni, effettua il controllo sulla veridicità delle dichiarazioni sostitutive.
- 5) I dati forniti sono trattati come indicato nell'art. 12 del bando di selezione.

Civita Castellana 17/11/2017



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