

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

PERSONAL INFORMATION

Name, Surname	Sabato D'Auria
Address	Department of Biology, Agriculture and Food Science (DISBA) - CNR
House number, street name, postcode, city, country	Piazzale Aldo Moro, 7 00165 Rome, Italy
E-mail	sabato.dauria@cnr.it
Nationality	Italy

WORK EXPERIENCE

QUALIFICA 01/02/2021 - DIRECTOR - DEPARTMENT OF BIOLOGY, AGRICULTURE AND FOOD SCIENCE (DISBA) – CNR, ROME, ITALY;

01/07/2020 – 31/01/2021
Director of the Institute of Food Science, ISA-CNR, Avellino, Italy;

01/10/2018 – 30/06/2020
Acting Director of the Institute of Food Science, ISA-CNR, Avellino;

01/10/2014 – 30/09/2018
Director of the Institute of Food Science, ISA-CNR, Avellino, Italy;

01/01/2010 - today
Director of Research at National Research Council (CNR), Italy (unpaid on-leave);

31/05/2014- today
Professor associated to the Centre INRS - Institut Armand-Frappier, Laval, Quebec, Canada (under renewal procedure);

EDUCATION AND TRAINING

Dates	1993
Name and type of organisation providing education and training	<i>University of Naples "Federico II", Italy.</i>
Title of qualification awarded	<i>Specialization in General Pathology</i>
Dates	1989
Name and type of organisation providing education and training	<i>University of Rome "La Sapienza", Italy;</i>
Title of qualification awarded	<i>Specialization in Medical Genetics</i>
Dates	1985
Name and type of organisation providing education and training	<i>University of Napoli "Federico II", Italy;</i>
Title of qualification awarded	<i>Dr. in Biology</i>

Scientific Carrier

- 2020 – Coordinator of the National PhD in Artificial Intelligence (Decree CNR President N. 98 08-10-2020);
- 2010-today. Director of Research at National Research Council, Italy. (on-leave)
- 2001- 2009. Senior Scientist at National Research Council, Italy.
- 2001- today. Head of the Laboratory for Molecular Sensing, CNR, Italy.
- 2010- 2014. Invitee Professor, Centre INRS - Institut Armand-Frappier, Laval, Quebec, Canada.
- 2000-2001. Faculty Member, Visiting Associate Professor at the University of Maryland at Baltimore, Center for Fluorescence Spectroscopy, Baltimore, MD, USA.
- 1997-1999. Research Associate at the University of Maryland at Baltimore, Center for Fluorescence Spectroscopy, Baltimore, MD, USA.

Professional Achievements

a) Scientific Achievements

2020 – Member of the Working Group “Creativity, Design, Made in Italy” in the frame of the Research National Program (PNR) 2021-2027 of the Ministry of University & Research of Italy;

2020 - Expert evaluator of Italian Ministry of University & Research (MUR) for FISIR Proposals (Panel Life Science), Italy;

2016 - Expert evaluator of National Research Council for proposal evaluations in the frame of the Agreement between Regione Lombardia and CNR, Italy;

2015-2019 - Member of the Board Directors BioTekNet S.c.p.a, Naples, Italy;

2015-2020 - Expert evaluator of National Research Council (CNR), Italy for proposals in the frame of “Funds for a Sustainable Development” Italian Ministry of economic Development (MISE);

2015-2016 - Member of the Board Directors MEDEA Scarl, Avellino, Italy (resigned on 2016);

2014-2018 - Member of the scientific board of the National Cluster Project “Smart & Safe”;

2014 - Habilitation to the position of Full Professor of Biochemistry (MIUR);

2014 - Habilitation to the position of Director of the Institute of Protein Biochemistry CNR, Napoli, Italy (ternato);

2013-2018 - Panel member of the European Commission for proposal evaluation (H2020-MSCA-IF-2018-Chemistry);

2013 - Habilitation to the position of Director of the Institute for Study of Macromolecules, Milan, Italy, (ternato);

2013 - Governor Board Member of the Institute of the Protein Biochemistry, CNR, Napoli, Italy;

2012 - MIUR Expert for “Industrial Research in Italy” (Law N. 30/Ric. 2/2/2012);

2012 - Scientific Consultant of the Regione Lombardia, Italy;

2010-2016 - Invitee Professor at the Centre INRS - Institut Armand-Frappier, Laval, Quebec, Canada;

2010 - Scientific Consultant of “Granarolo Group”;

2007-2008 – Member of the Working Group of CNR Life Sciences Department for intellectual

property protection and technology transfer strategies;

2006-2015 - Principal Investigator of the CNR Project “Advanced Bio-Chips for food safety and health” (Commessa);

2006 - Scientific Consultant of Vicam - WATERS – MA, USA;

2004 - Scientific Consultant of the SME “Neutron Spa”, Italy;

1998 - Visiting scientist at the University of Negev, Beer-Sheba, Israel (CNR-MOSA project);

b) Academic Achievements

2017 - Member of Examination Board for PhD Program in *Science XXIX* series, University of Basilicata, Potenza, Italy;

2017 - Member of Examination Board for PhD Program in Biochemical Engineering at Politecnico of Torino, Italy;

2017 - Member of Examination Board for Program in Information Technology of the Politecnico of Milan, Italy;

2016 - Committee Member for evaluation of PhD student admission at University of Basilicata, Italy;

2015 - Member of the PhD School “Innovation & management of food with high healthy value”, University of Foggia, Italy;

2015 - Contract Professor at the “Politecnico” University of Turin, Italy for the Course of “Industrial Biochemistry” (Resigned);

2011 - Contract Professor at Faculty of Biotechnology, University of Naples Federico II;

2006 - Course Lecturer at University of North Texas, Fort Worth, TX, USA;

1998 - Contract Professor at Specialization School in Clinical Biochemistry, University of Perugia, Italy;

1997 - Contract Professor at Faculty of Pharmacy, University of Perugia, Italy;

Research Projects of which he has been responsible

International Projects

1) Principal Investigator CNR EU Program Horizon Europe - HORIZON-CL6-2021-FARM2FORK-01-18 – Horizon RIA One Health approach to support agroecological transformation of peri-urban farming
“URBANE -1” (2022-2026) Proposal number: 101059232

2) Principal Investigator CNR Eu Program Horizon Europe - HLTH-2021-ENVHLTH-02 HORIZON – RIA- Disrupting Noxious Synergies of Indoor Air Pollutants and their Impact in Childhood Health and Wellbeing, using Advanced Intelligent Multisensing and Green Interventions. “SynAir-G” - (2022-2026) Proposal N. 101057271

3) Principal Investigator CNR - - European Program Horizon 2020 -FNR-2020-2
Consumer-driven demands to reframe farming systems -
“CODE R-FARM” – (2021-2025) Grant N. 101000216

4) Principal Investigator CNR - European Program Horizon 2020 - Ultra-compact, low-cost plasmo-photonic bimodal multiplexing sensor platforms as part of a holistic solution for food quality monitoring
“GRACED” – (2021-2025) Grant N. 101007448

5) Principal Investigator CNR - ENI CBC MED- European Commision - Transborder Key Enabling

Technologies and Living Labs for the Dairy value chain
"TRANSDAIRY" - (2020-2024) **Grant N. B_A.2.1_0179**

6) - Principal Investigator CNR - **The Research Promotion Foundation Programs for Research, Technological Development and Innovation "RESTART"**– Automated *in-situ* CYANO-toxin Assessment Tool-BOX for Real -Time Surface Water Monitoring – Cyprus – (Subcontract); "CYANOBOX" – (2019- 2021)

7) - Principal Investigator ISA-CNR – **European Program Horizon 2020** –Quantitative detection of bacterial endotoxin by novel nano/technological approaches -
"ENDONANO" – (2019 - 2022) **Grant N. 812661**

8) - Principal Investigator CNR **European Program Horizon 2020** – Swine diseases field diagnostics toolbox - "SWINOSTICS" (2017-2021) **Grant N. 771649**

9) - Principal Investigator CNR **European Program Horizon 2020** – Safe and green Sensor Technologies for self-explaining and forgiving Road Interactive aPplications - "SAFE STRIP" (2017-2020) **Grant N 723211**

10) - Principal Investigator CNR **European Program Horizon 2020** - High sensitivity, portable photonic device for pervasive water quality analysis - "WATERSPY" (2016-2020) **Grant N. 731778**

11) - Principal Investigator CNR **European Program FP7** - Marine environmental in situ assessment and monitoring toolbox - "MARIABOX" (2014-2018)
Grant N 614088

12) - Principal Investigator CNR **European Program FP7** - Drugs and Precursor Sensing by Complementing Low Cost Multiple Techniques - "CUSTOM" "Italy/Finland/Spain/France" for biosensors for drug precursors; (2009-2013)
Grant N 242387

13)- Principal Investigator CNR **European Defense Agency** (EDA) "NANOCAP" "Italy/Spain/Greece/France" for biosensors for TNT detection (2010-2013);
Grant N A-1084-RT-GC

14) - Principal Investigator CNR **European Defense Agency** (EDA) "BIOTYPE" "Italy/Spain/Greece/France/Germany" for biosensors for dangerous agent detection; (2013-2015);
Grant N A-1152-RT-GP

15) - Coordinator (Supervisor) of INTAS **European Project** "Italy-Russia" Young fellowship for development of a new biosensor for diabetic patients; (2006-2008)
Grant N 06-1000014-5586

16) - Coordinator - Development of an innovative fluorescence biosensor for lactose monitoring. Dulce de leche as a model.
Ministry Foreign Affairs Italy-Argentina. (2006-2007)

17) - Coordinator of NATO **European project** N. CBP.CLG.982437 Italy–Bulgaria–Czech Republic for the development new sensing technologies for homeland security (2005-2007);

18) - Coordinator of NATO **European Project** N. CLG 978934 "Italy–Czech Republic" for development of stable biosensors (2003-2005)

19) - Coordinator of NATO project with Russian Academy of Science for development of an optical sensor for security; (2003-2005)

20) - Principal Investigator CNR **MAE** Italian Ministry for Foreign Affairs research project with University of Vienna, Austria for the characterization of new enzymes for the sugar enzymatic synthesis (1999-2001);

21) - Principal Investigator CNR of the research project between CNR – South Korea CNR-Kosef for a new FRET biosensor for celiac disease; (2004-2005)

22) - Principal Investigator Grant N 5P41RR008119-14, Glucose sensing application to contact lenses, University of Maryland, 2006;

- 23) - Principal Investigator Grant N 5P41RR008119-14 Effect of high hydrostatic pressure on enzyme, University of Maryland, **2006**;
- 24) - Principal Investigator Grant N 5P41RR008119-14, Fluorescence of thermophilic enzyme, University of Maryland, **2006**;
- 25) - Principal Investigator Grant N 5P41RR008119-13, Glucose sensing application to contact lens, University of Maryland **2005**;
- 26) - Principal Investigator Grant N 5P41RR008119-13 Effect of high hydrostatic pressure on enzyme, University of Maryland Baltimore, **2005**;
- 27) - Principal Investigator Grant N 5P41RR008119-13, Fluorescence of thermophilic enzyme University of Maryland, **2005**;
- 28) - Principal Investigator N 5P41RR008119-12 Glucose sensing application to contact lenses, University of Maryland Baltimore **2004**
- 29) - Principal Investigator N 5P41RR008119-12 Effect of high hydrostatic pressure on enzyme University of Maryland, **2004**;
- 30) - Principal Investigator N. 5P41RR008119-12 Fluorescence of thermophilic enzyme, University of Maryland, **2004**.

National Projects

- 31) Scientific Responsible of Research Objective 7 (OR7) - Nuove strategie per la diagnostica medica e molecolare per la tracciabilità ed il monitoraggio dei prodotti alimentari. – Realizzazione di piattaforme tecnologiche nell'ambito dell'accordo di programma – Distretti ad alta tecnologia e aggregazione di laboratori pubblici e privati per il rafforzamento dei potenziali scientifici e tecnologici della **Regione Campania. (2015-2020)**
- 32) – Scientific Responsible of Research Unit - Understanding and targeting the extracellular NADome in inflammation – programmi di ricerca scientifica di rilevante interesse nazionale. **PRIN 2019-2021**
- 33) - Principal Investigator CNR Project “PISA” Fondo per la Crescita Sostenibile – Bando “Progetti di ricerca e sviluppo negli ambiti tecnologici identificati dal Programma Quadro Horizon 2020” **MISE (2016-2019)**
- 34) - Coordinator of the CNR National Project “Premiale” of the Department of Biomedicine - Advanced Bio/sensing approaches for diagnosis and follow-up of celiac disease - **(2014-2016)**;
- 35) - Principal Investigator CNR of a WP in the frame of the Flagship Project “Interomics”; **(2015-2017)**;
- 36) Principal Investigator IBP-CNR of the National Cluster Project “Smart & Safe” **(2013-2018)**;
- 37) - Principal Investigator IBP-CNR of the project “Design and realization of an advanced immune-assay for an early diagnosis of endocrine tumors – Italian Flagship Project – NANOMAX funded by CNR **(2012-2014)**;
- 38) - Principal Investigator IBP-CNR of the project “CAMPUS–QUARK” funded by Regione Campania **(2012-2014)**;
- 39) - Principal Investigator IBP-CNR of the project “CISIA” funded by Consiglio Nazionale delle Ricerche **(2011-2013)**;
- 40) - Principal Investigator of the project “Innovative biosensors for the detection of the aflatoxin M1 in milk” funded by Granarolo Spa **(2010-2011)**;
- 41) - Principal Investigator IBP-CNR of a WP of the project “Innovative biosensors Innovative fluorescence biosensors for glucose detection”. Bioteknet. Funded by Campania Region. **(2004-**

2008);

42) - Principal Investigator IBP-CNR of the project “An optical based biosensor for the detection of pollutants” funded by the Italian Centre for Aeronautic Research. **(2006);**

43) - Principal Investigator IBP-CNR of the project “A fluorescence biosensor for the following-up of celiac disease. Campania Region. **(2008);**

Research Projects to which he participated

a) International Projects

- 1) - Scientist involved in European project H2020- INFRADEV - Progressing towards the construction of METROFOOD-RI Grant Agreement No.: 739568 **(2016-2017)**
- 2) - Scientist involved in European project H2020 INFRAIA *‘Industrial Biotechnology Innovation and Synthetic Biology Accelerator — IBISBA 1.0’* Grant Agreement No 730976 **(2016-2020);**
- 3) - Scientist involved in the NATO project with “Russian Academy of Science” Development of an optical sensor for security, N. PSTNRCLG981025; **(2004-2005);**
- 4) - Scientist involved in the Philip Morris project – Biosensor for blood lactate monitoring (PI Karol Zygmunt Gryczynski); **(2002-2004);**
- 5) - Scientist involved in the American Diabetic Association project – Fluorescence biosensor for glucose monitoring (PI JR. Lakowicz); **(2001-2003);**
- 6) - Scientist involved in European project FP5 – (Prof. Mosè Rossi PI); **(1997-1999);**
- 7) - Scientist involved in project CNR-MOSA (Dr. Paolo Bazzicalupo PI); **(1997-1998);**
- 8) - Scientist involved in project CNR-MOSA (Dr. Roberto Nucci PI). **(1996-1997);**
- 9) Scientist involved in project PON Biodefensor (PI Giuseppe Manco); **(2012-2014);**
- 10) Scientist involved in project NATO - (Maria Staiano PI); **(2006-2009);**
- 11) Scientist involved in project “Biosensori per il glucosio” Legge 297 Eurochem Srl - Pomezia (RM) - (Mosè Rossi PI); **(2001-2003);**
- 12) Scientist involved in project MIUR – (Prof. Mosè Rossi PI); **(2001-2003);**
- 13) Scientist involved in project FIRB – L'altra metà del codice genetico - (Prof. Mosè ROSSI PI); **(2003-2004)**

Management Courses

Course Title: “Data protection, tra GDPR e attualità - La responsabilità del titolare: il principio di accountability” 16-03-2022 – CNR, Rome (online)

Course Title: “Safety and Health in the Workplaces” 28-01-2019 – CNR, Rome.

Course Title: “Safety and Health in the Workplaces” 24-10-2018 – CNR, Rome

Course Title: “The second evaluation criterion in Horizon: the impact” 17-10-2018 – CNR, Rome.

Course Title: GDPR - General Data Protection Regulation 19-07-2018- CNR, Rome.

Course Title: “H2020: Participant's portal, partner search, reporting and audit” 27-03-2018 – CNR, Rome.

Course Title: Questions- The management of research projects - 01-03-2018, CNR, Rome.

Course Title: Safety and Health in the Workplaces” 08-03-2016 – CNR, Rome.

Course Title: Soft Skills for Research Team Management (First Part) 01-01-2016 – CNR, Rome.

Course Title: Soft Skills for Research Team Management (Second Part) 01-01-2016, CNR, Rome.

Course Title: “Safety and Health in the Workplaces” 06-10-2015 – CNR, Padova.

Course Title: “Management Path for CNR Scientific Structure Directors” Edition 2015 from 15-07-2015 to 16-07-2015 – CNR, Rome.

Course Title: Management Path for CNR Scientific Structure Directors - Edition 2015 23-06-2015 to 24-06-2015 – CNR, Rome.

Editorial Activity

EDITOR and/or Member of the Editorial Board of the following international Journals:

1. PLOS ONE, USA – Academic Editor;
2. BMC Biochemistry - London – Editor (Section Chemical Biology);
3. Current Chemical Biology, Bentham Science- Associate Editor;
4. Sensors, MDPI, 4052 Basel, Switzerland: Editorial Board
5. International Journal of Molecular Sciences, Basel, Switzerland Editorial Board;
6. Journal of Fluorescence, Plenum Press, USA; Editorial Board;
7. Journal Proteomics, Bentham Science, USA; Editorial Board;
8. Protein Peptide Letters, Bentham Science, USA; Editorial Board
9. International Journal of Celiac Disease, USA; Editorial Board
10. AIMS of Biophysics, USA; Editorial Board
11. Recent patent in DNA and Gene Sequences, Bentham Science, USA; Editorial Board

Invited Lectures and Seminars in the last 10 years

2022

- Invited speaker – Light, Materials, Proteins: new avenues for food safety and health. – Università degli studi di Salerno, 9 February 2022, Salerno, Italy
- Invited Lecturer - Third Course on the Advanced Biological Applications of Fluorescence Techniques. 12-13 June 2022, Rome, Italy.

2021

- Invited speaker – From Protein structure to Biochips – Università Campus Biomedico Roma 14 March 2021, Rome, Italy

2019

- Invited speaker - Biosensori per la qualità e sicurezza degli alimenti - ENEA – Centro Ricerche Portici Piazzale Enrico Fermi – Località Granatello, 29 January 2019 Portici (NA), Italy
- Invited to Academic Roundtable and High-Level event on the Mediterranean Diet - Symposium on the Future of Food, 10-11 June 2019, Food and Agriculture Organization of the United Nations (FAO), Rome Italy
- Invited speaker Kick-off meeting H2020 Project ENDONANO – ESR3 presentation, 16-17 January 2019, CNR Napoli, Italy

2018

- Invited speaker - Nanoscience & Nanotechnology 2018 – Nanotechnological-based applications for analyses of high social interest 18-20 December 2018 National Laboratory Frascati (RM) Italy

- Invited speaker - Health 4.0 - The innovation that speaks Italian. Annual Meeting of the scientific attaché 2018. Ministry for Foreign Affairs, Rome, Italy, 5-6 February 2018

2017

- Invited speaker "Advanced Bio/sensors: Molecules, Materials and Light." Optical Sensors, Prague Czech Republic, 24 - 27 April 2017.

- Invited speaker "Introduction to the Fluorescence" Second International Course Advanced Fluorescence Application in Biotechnology & Biology 3-4 May 2017, Avellino

2016

- Invited speaker and co-organizer "Biosensoristica per l'Agricoltura 2.0", Accademia dei Georgofili, Firenze 24 October 2016.
- Invited speaker - IMEKO-FOODS, Palazzo Paolo V, Benevento, Italy 4 October 2016 2016.
- First International Course Advance Application of Fluorescence Spectroscopy Avellino ISA CNR 6 July 2016.
- Invited speaker - Understanding protein structure opens new diagnostic Avenues – IVALSA Area Ricerca Sesto Fiorentino, Italy 20 July 2016.
- Advanced Sensing Devices for Food Safety, Seeds & Chips, Milan, Italy 11 May 2016.
- Invited speaker - Progettazione di nuovi biosensori ottici per una diagnostica avanzata, IMAA-CNR, Tito, Italy 5 April 2016.
- Invited speaker - Sensors: Light, Materials and Molecules, 11 ITS European Congress Glasgow EU project SafeStrip, UK – 10 June 2016.
- Invited speaker - Progettazione di nuovi biosensori ottici per una diagnostica avanzata, Cesma, San Giovanni, Naples, Italy, 22 June 2016.

2015

- Invited Speaker "La tutela dell'ambiente per la tutela della salute" Carcere Borbonico, 15 October 2015 Avellino, Italy.
- Invited Speaker, Centro Servizi del Distretto Agroalimentare del Tavoliere Missione incoming di operatori canadesi Teatro Umberto Giordano, Sala Fedora -, Martedì 16-17 September 2015 Foggia, Italy.
- Invited Speaker "Il futuro dell'Irpinia nella ricerca ed internazionalizzazione", Comune di Avellino, Sede Consiliare – Palazzo di Città, 19 June, 2015, Avellino, Italy.
- Key note speaker – Materiali Nanofasici XI National Conference, CNR 26-28 October 2015, Rome, Italy.
- Invited Speaker – Sud oltre EXPO- 22-25 April 2015 – University of Salerno, Italy.
- Invited Speaker – World Food Forum – ASTER – March 26, 2015, Brussels, Belgium.
- Invited Speaker- La Dieta Mediterranea – Emozioni UNESCO. February 27, 2015, Padula, Salerno, Italy.
- Invited Speaker- Giornata Presentazione ISPAM-CNR, January 17, 2015 Ponticelli, Napoli, Italy.

2014

- Invited Speaker - The Road to Expo: "The Quest of Nano-Particle Detection in Our Food, December 5 2014, CNR Roma.
- Invited Speaker, Luce e Alimentazione – Giornata di Studio "Luce & Futuro" December 1 2014, CNR, Napoli.
- Invited Speaker- Giornata Presentazione ICB-CNR, October 24, 2014 Pozzuoli (NA), Italy.

- Invited Seminar at Polytechnics University of Turin, Italy October 8 2014.
- “Advanced Nanostructured Fluorescence Biosensors for Safety and Health” – NANOFORUM, September 24 2014, Rome, Italy (Invited Speaker).
- “Advanced Optical applications in Medicine and Life Sciences” International Congress 2014 Warsaw, Poland September 9-12, 2014 (Invited Lecture).
- “Understanding Protein Structure Opens New Diagnostic Avenues”, International Congress Biophysics@Rome, Rome, Italy (Invited Lecture) May 22-23, 2014.
- Advanced Biosensing Application for Food safety – Science and Technological park, Trieste-Euroclone Spa (Invited Seminar) Trieste, Italy March 22 2014.
- Proteins and Biotech Applications – Fondazione San Lucia, Rome, Italy. February 22 2014 (Invited seminar).
- Biosensors: An overview. University of Naples Federico II, Napoli, Italy February 13, 2014 (Invited Seminar).

2013

- "Un sistema avanzato di bio-sensori ottici per la sicurezza", Workshop on Research Activity and Innovation for Security and Privacy at CNR, May 14 2013 at CNR, Rome; (Invited Speaker).
- Progettazione di nuovi biosensori ottici per una diagnostica avanzata, 7 Giugno 2013 ICRM, CNR, Milan, Italy; (Invited Speaker).
- Advanced Optical Protein-based Biosensors as New Promising Tools in Diagnostics, The Fourth International Workshop on Advanced Spectroscopy and Optical Materials 4–19 July 2013, Gdansk, Poland (Invited Speaker).

2012

- Bioforum IGB-CNR, Napoli 7-8 June 2012 – Invited speaker.
- CFG Fotonica Meeting- Selex SI, Roma March 27 2012 – Invited speaker.
- University of Florence, New methodologies for an easy sensing, January 20 2012, Invited Speaker.
- Università di Salerno “I Martedì di Bioinformatica” – Advanced optical sensor for analytes of social interest Salerno, Italy January 17 2012, Invited Speaker.

2011

- European FP7 Project CUSTOM meeting – 28-29 September, Thales Research and Technology (TRT) at Palaiseau, Paris, France – Invited Speaker.
- Advanced fluorescence-based biosensors for analyses of high social interest, Dept. of Physics, Università di Napoli Federico II, Napoli, Italy January 25 2011, Invited Speaker.

2010

- International Conference on Microbial Diversity. 26-28 October 2011, Milan, Italy. Invited Speaker.
- Advanced bio-sensing approaches for analytes of interest for health and food safety ISPA-CNR, Sala Congressi del CNR-Area della Ricerca di Bari, Bari, Italy, November 10 2010. Invited Speaker.
- University of North Texas, Fort Worth, TX, USA. Protein-based sensors for markers of high social interest. Fort Worth, TX, USA July 30 2010, Invited Speaker.
- Workshop Nanotech for food, Filarete, Milan, Italy March 25 2010 (Invited Speaker).

Conference Committee involvement

- 7° International Symposium on Sensor Science, 9-11 May 2019 Naples, Italy (Scientific Committee);
- First Training Course on “Intellectual property and Technology Transfer”, 18-19 December 2017, ISA-CNR, Avellino, Italy - (Organizer).
- Second International Course on Advanced Applications of Fluorescence Spectroscopy, 3-4 May 2017, ISA-CNR, Avellino, Italy- (Organizer).
- Special Session “Biosensoristica per l’Agricoltura 2.0” Accademia dei Georgofili, 24 October 2016 Florence, Italy- (Organizer).
- First International Course on Advanced Applications of Fluorescence Spectroscopy, 4-6 July 2016, ISA-CNR, Avellino, Italy- (Organizer).
- Meeting (F4F)2 - Future for Food and Food for Future (2) 17 July 2015, EXPO, Milan, Italy; (Organizer).
- Meeting (F4F)2 - Future for Food and Food for Future, CNR - via Bassini 15, Milan, Italy- (Organizer).
- Meeting of the European Project EDA- BIOTYPE 10-11 December 2014, Salerno, Italy- (Organizer).
- Meeting of the European Project FP7 MARIABOX, 17-18 September 2014, Salerno, Italy- (Organizer).
- Single Molecule Spectroscopy and Imaging II 22-27 January 2010 San Jose, CA, USA- (Member of Conference Committee).
- Single Molecule Spectroscopy and Imaging II 24 - 29 January 2009 San Jose, CA, USA- (Member of Conference Committee).
- Single Molecule Spectroscopy and Imaging 19 - 24 January 2008 San Jose, CA, USA- (Member of Conference Committee).
- Advanced Biomedical and Clinical Diagnostic Systems VI 19 - 24 January 2008 San Jose, CA, USA- (Member of Conference Committee).
- Ultrasensitive and Single-Molecule Detection Technologies II 20 - 25 January 2007 San Jose, CA, USA- (Member of Conference Committee).
- IV Symposium Advanced Technologies for Defence- Ministry for Defence, 21-22 June 2007, Rome, Italy- (Member of Conference Committee).
- Advanced Biomedical and Clinical Diagnostic Systems V 20 - 25 January 2007 San Jose, CA, USA- (Member of Conference Committee).
- Advanced Biomedical and Clinical Diagnostic Systems IV 21 - 26 January 2006 San Jose, CA, USA- (Member of Conference Committee).
- Ultrasensitive and Single-Molecule Detection Technologies 21 - 26 January 2006 San Jose, CA, USA- (Member of Conference Committee).
- Science for Food – Festival della Scienza di Genova – November 2006, Italy; (Member of Conference Committee).
- Advanced Biomedical and Clinical Diagnostic Systems III 22 - 27 January 2005 San Jose, CA, USA- (Member of Conference Committee).
- Biohazard Detection Technologies 24 - 29 January 2004 San Jose, CA, USA - (Member of Conference Committee).

Patents

1. Process of Immobilizing Biomolecules In Porous Supports By Using An Electronic Beam.
D'Auria S. et al.,
US Patent 20090036326, February 5, 2009;
2. Process of Immobilizing Biomolecules In Porous Supports By Using An Electronic Beam.
D'Auria S. et al.,
CA 2589838 A1, May 30 2007;
3. Inactive Enzymes as non-consuming sensors.
D'Auria S., et al.
PCT/US2000/024846; (15/03/2001)
4. Immobilizzazione di biomolecole su supporti porosi, tramite fascio elettronici, per applicazioni in campo biomedico ed elettronico.
D'Auria, S. Rossi AM, Rossi M, Borini S
Italian Patent N. 001353977 6 February 2009
5. A new Immunological assay for detection of patulin toxin.
D'Auria S., et al.,
PCT /IT2007/000045; (26 July 2007)
6. *Nuovo metodo immunologico per la determinazione di patulina negli alimenti*
D'Auria S., De Champodorè M., Bazzicalòupo P., Rossi M.
Italian Patent ITNA20060006 (23/01/2006)
7. Un nuovo metodo a fluorescenza per la rilevazione di cadmio nelle acque e negli alimenti.
D'Auria S., Rossi M., Varriale A.
Italian Patent 0001384497 (30 December 2010) ;
8. Nuovo metodo immunologico per la rilevazione di glutine negli alimenti.
D'Auria S., Rossi M., Rossi M.
Italian Patent 0001369726 (18 January 2010)
9. Metodo per il rilevamento di micotossine nel latte, suoi derivati e prodotti caseari.
D'Auria S., Di Giovanni S., Zambrini MV
Italian Patent 0001420802 (29 January 2016)
10. Apparecchiatura per la rilevazione della presenza di un analita in un campione di sostanza, in particolare di prodotto alimentare
D'Auria S., Luini A., Rossi M
Italian Patent n. 0001421445 (18 March 2016)

Figures selected as Cover Front -Image of International Journals

1. Molecular Systems. Design & Engineering, 2017, Vol. 2
2. Food4Future, CNR Publisher, 2016.
3. Analytical Methods, 2012, Vol. 4, 10.
4. Analytical Methods 2012 Vol. 4, 11.
5. Nanoscale 2011, Vol. 3, 1.
6. The Journal of Physical Chemistry 2011, Vol 115, 12.
7. Proteomics, 2010 Vol. 10, 10.
8. Molecular Bio/Systems, 2010, Vol. 6,4.
9. Biopolymer, 2010 Vol. 93, 8.

10. Molecular Bio/Systems, 2005, Vol. 1,5-6.

11. Biochemical Journal, 2004, Vol. 381

Dr. Sabato D'Auria List of Publications

Publications on International peer-reviewed journals

230. Ultra-fast detection of pathogens and protein biomarkers using a low-cost silicon plasmonic biosensing platform for a fast sepsis management

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