

***DOTT. ENRICO DI LUISE*****PERSONAL INFORMATION**

Name, Middle Name, Surname **ENRICO IGNAZIO DI LUISE**
Telephone
E-mail
Nationality Italian
Date of birth
Current addresses *office* - R.I.S. CC, Via Mons. D'Arrigo 5, 98121 – T Messina (Italy)

WORK EXPERIENCE

Dates	November, 2004 - onwards
Occupation or position held	<i>Lieutenant Colonel of Arma dei Carabinieri, Reparto Carabinieri Investigazioni Scientifiche (R.I.S.)- Messina – (Forensic Investigation Dept.), Head of S.I.O. (CSI Team) and Vice Head of Molecular Biology Laboratory.</i>

Main activities and responsibilities **MANDATORY ACTIVITIES and TASKS:**

- Commander of Sezione Intervento Operativo – S.I.O. [CSI Team or Evidence Response Team (ERT) leader] - Emergence First Responding Officer.
- Vice Head Forensic Biology Lab.
- Entitled as Forensic Lab Director (since 2013) in Molecular Biology.
- DVI team leader.
- Forensic Expert for Courts and Prosecutor Offices in their areas of competence (Sicily and Calabria) concerning DNA testing and Molecular genetics. Expert witness activities for public prosecutors and general attorneys for courts of justice among the south of Italy, mainly concerning preliminary investigations, criminal prosecution and re-examination of previous consultancies (trials in Courts of Appeal).
- QA/QC Lab Manager (RQL). Internal Auditor and Supervisor within the quality certification and reference person for laboratory accreditation (UNI EN ISO 9001:2015; UNI EN ISO 17025:2017).
- Planning and supervision of the overall technical and operational activities of the molecular biology laboratory including: casework evidence examination and bio-molecular analysis, data interpretation, internal testing protocols.
- Planning and supervision of the internal blind test and of the annual collaborative ring test.
- Internship Supervising for military personnel during.
- Planning manufacturers supply for laboratory disposables, reagents and kits. Planning and supervision of instruments maintenance programme performed by the manufacturers.
- Technical updating and applied research in the field of forensic genetics.

TEMPORARY ACTIVITIES:

- ENFSI CRIME SCENE WORKING GROUP Member 2022/2026– Arma dei Carabinieri RaCIS representative.
- ENFSI DNA WORKING GROUP Member 2020/2022– Arma dei Carabinieri RaCIS representative.
- Lecturer at University of Catanzaro – UMG – Crime Scene Analysis course.
- Lecturer for Arma dei Carabinieri within the framework of the EU Project CT-Mena - Counter-terrorism in the Middle East and North Africa, October 2019, Rabat Morocco.
- Head of Forensic Trainers Team for Libanese Army Force and Libanese Law enforcement within the framework of the bilateral Mission MIBIL (Beirut, august-october 2017).
- Vice Head of the D.V.I. (Disaster Victim Identification) Unit at "EUROSOT 2005 - Sicily" (International Exercise of Mass Fatality Emergence - Ministry of Civil Protection, Presidency of the Council of Ministers and European Commission – J.M. Barroso Presidency)
- Lecturer of “Crime Scene Processing Techniques” in the Postgraduate Master Course in “Forensic Science” - University of Messina, Faculty of Science in cooperation with R.I.S. Carabinieri di Messina.
- Responsible and lecturer at the Official Training Course in “Crime Scene Processing and Forensic Investigation” reserved to law enforcement personnel belonging to “Arma dei Carabinieri” within operative sections in South of Italy (Reggio Calabria , April-June 2007)

Name and address of main employer **R.I.S. Carabinieri, S.S.114 – Km 6,400, 98128 – Tremestieri, Messina (Italy)**

Type of business or sector **Military Law Enforcement Corp with Civil Police duties – C.S.I. and Forensic Laboratory Dept. (further information on Arma dei Carabinieri on www.carabinieri.it or wikipedia)**

Dates 2001- 2004

Occupation or position held *Fellow student*

Main activities and responsibilities - Research project “*Candidate marker genes to monitor gene flow between Genetically Modified, NON Genetically Modified and Organic Crop*” – Supervisor Prof. Dr. Marc De loose
- Responsible of the research project (MSc thesis project) “*Development of a Multiplex Event-Specific PCR to Detect Genetically Modified Corn in Foodstuff*”– Supervisor Prof. Dr. Marc De loose/Dr. Isabel De grieck.
- *fellow student/Lab technical assistant “Monitoring Gene Flow in GM oilseed rape” – Project Responsible Dr. Isabel De grieck*

Name and address of employers **Department of Plants Genetics and Breeding (DvP), Agricultural Research Center (CLO), Melle, Belgium** – Director Prof. Dr. E. van Bockstaele
Faculty of Agricultural Science - University of Gent (Belgium)
Faculty of Agricultural Science - University of Catania (Italy)

Type of business or sector Research Center – Belgian Ministry of Agriculture
Faculty Department

EDUCATION AND TRAINING

Title of qualification PhD

Dates Academic years 2012-2015

Degree Course PhD curriculum in Cell Biology and Biotechnology.

Principal subjects/occupational skills covered Biology, Chemistry, Biochemistry, Cytology, Histology, Genetics, Molecular Biology and Applied Forensic Biotechnology,

***Final thesis project:** “Degradation of Human Tissues in water environment: Limits and Solutions for Forensic DNA analysis”*

Name and type of organisation providing education and training University of Messina – Faculty of Biology

Title of qualification PhD

Dates 2009 – 2010 (military academic year)

Name of the course Professional and Technical Training Course (S.P.E. course)

Principal subjects/occupational skills covered **Professional Techniques and Law curriculum** including: General Military Education and Training, Military tactics and strategy, Military Law, Military Police duties, Elements of Civil Law, Constitutional Law, Criminal Law, Criminal Procedure, Investigation Techniques and tactics, Judicial Police Procedure; History of the Arma of Carabinieri, Weapon Equipment (both Civilian and Military) and Individual Combat Training ; Weapons Usage training.

Scientific and Criminal Investigations Techniques curriculum including: Medico-legal

	investigation, Immuno-chromatographic assay for tissue identification, DNA testing techniques; Crime Scene Processing, fingerprint identification techniques; drug chemistry-toxicology analysis; ballistics and GSR analysis; fibres, paints and glasses forensic analysis; phonics and graphology; forensic photography and imaging; forensic psychiatry, cyber-crime and computer forensic science, statistics and forensic databases.
Name and type of organisation providing education and training	Officers Carabinieri School - Military Academy of Arma dei Carabinieri - Commander Gen. C.A. U. Zottin.
Title of qualification awarded	- Military Rank: First Lieutenant/Captain

Dates	Academic years 2005 – 2008
Degree Course	Bsc (Hons) Degree in Biology.
Principal subjects/occupational skills covered	Biology, Chemistry, Biochemistry, Microbiology, Cytology, Histology, Human Anatomy, Compared Anatomy, Human Physiology, Botany, Sistematic Botany, Genetics, Molecular Biology and Applied Biotechnology, Human Nutrition, Chemistry and Flavours of Nutrition
	<i>Final thesis project: “Cell and Tissue postmortem changes”</i>
Name and type of organisation providing education and training	University of Messina – Faculty of Biology
Title of qualification awarded	Italian Degree (corresponding to a BSc (Hons) with an average exam mark of 29/30 and a final degree mark of 110/110 “ <i>Summa cum Laude</i> ” (i.e. maximal score with honour)
Dates	September – December, 2006
Name of the course	Forensic Entomology Course (ENT 890 Section 730)
Principal subjects/occupational skills covered	The role of insects in crime scene investigation; Insect of forensic importance; Arthropods identification and classification; Insect succession on carrion; Body Decomposing factors; P.M.I. Estimation; Statistical data analysis of insect growth and development; Entomotoxicology; DNA techniques in forensic entomology; Bloodstain Pattern Analysis (B.P.A.) and insect alteration.
Name and type of organisation providing education and training	Michigan State University – Responsible Prof. Dr. Richard W. Merritt e Dr. Ryan Kimbirauskas, Department of Entomology.
Title of qualification awarded	NA – Course passed

Dates	Academic year 2004 – 2005
Name of the course	7th Professional and Technical Training Course (entitled to the gold medal of honour "Ten. Maggio Ronchey")
Principal subjects/occupational skills covered	Professional Techniques and Law curriculum including: General Military Education and Training, Military tactics and strategy, Military Law, Military Police duties, Elements of Civil Law, Constitutional Law, Criminal Law, Criminal Procedure, Investigation Techniques and tactics, Judicial Police Procedure; History of the Arma of Carabinieri, Weapon Equipment (both Civilian and Military) and Individual Combat Training ; Weapons Usage training. Scientific and Criminal Investigations Techniques curriculum including: Medico-legal investigation, Immuno-chromatographic assay for tissue identification, DNA testing techniques; Crime Scene Processing, fingerprint identification techniques; drug chemistry-toxicology analysis; ballistics and GSR analysis; fibres, paints and glasses forensic analysis; phonics and graphology; forensic photography and imaging; forensic psychiatry, cyber-crime and computer forensic science, statistics and forensic databases. Apprenticeship: R.I.S. Carabinieri Department of Rome and Messina. Exhibits examination, Immuno-chromatographic assay for tissue identification and DNA testing on different type of evidence.
Name and type of organisation providing education and training	Officers Carabinieri School - Military Academy of Arma dei Carabinieri - Commander Gen. C.A. Vittorio Barbato.

Title of qualification awarded	- Military Rank: First Lieutenant - - First Classified in the overall 7th Course ranking; “Course leader” (Italian “Capocorso” – i.e first classified after national competition + assignments maximal score) of the 7th Professional and Technical Training Course
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Dates	Academic Years 1996 – 2003
Degree Course	Italian Degree in Biotechnology, <i>curriculum studiorum</i> “Food Science and Technology”.
Principal subjects/occupational skills covered	Biology, Chemistry, Biochemistry, Microbiology, Food Technology, Environmental Security, Systems and Quality Self, Agricultural Economics and Law, Technological Process in Food Industry, Food and Human Nutrition. Final Year <i>Curriculum Studiorum</i> subjects: Biotechnology, Chemistry and Flavours of Nutrition Erasmus Student Exchange Programme at the University of Gent – Belgium, from first and second semester (academic year 2001-2002): Applied Molecular Biology, Agricultural Biotechnology, Biotechnology of fermentation, Food Chemistry. Final thesis project: “ <i>Detection of Genetically Modified Traits in Maize by Means of Event-Specific Multiplex PCR</i> ” designed and developed at CLO-DvP, Gent (Belgium). Selected for oral presentation at the 6 th Biotechnology National Congress (Padova 4-6 giugno 2003)
Name and type of organisation providing education and training	University of Catania – Faculty of Agricultural Science University of Gent (Belgium) - Faculty of Agricultural Science
Title of qualification awarded	Italian Degree (corresponding to a BSc (Hons) + a MSc) with an average exam mark of 30/30 and a final degree mark of 110/110 “ <i>Summa cum Laude</i> ” (i.e. maximal score with honour)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE **ITALIAN**

OTHER LANGUAGES

Oral, written, comprehension competence

- Certification - T.O.E.F.L. – C.B.T. SCORE 270 obtained at University Politecnico di Milano (Milan)
- Cambridge FIRST Certificate

ENGLISH

Excellent

Oral, written, comprehension competence

- Certification Diploma Escuela Cervantes
- Note Developed mainly through summer jobs in Spain

SPANISH

Excellent (oral and comprehension), good /written)

COURSES

“La misurazione della soddisfazione del cliente” – ANGQ, Ing. Montebelli – Roma, 16.10.2023

“Gestione del rischio ed analisi del contest secondo ISO/IEC 17025 strumenti pratici per un laboratorio di prova e taratura”, (da ANGQ), VRQL/T.Granata, Messina, 25 novembre 2022

“Verifica di Accuratezza, Ripetibilità ed Esattezza – strumenti pratici per l’assicurazione della validità dei risultati in un laboratorio di prova e taratura secondo ISO/IEC 17025” – (da ANCG) VRQL T. Granata. Messina, Settembre 2023.

“La nuova norma 17025:2017: Focus sui nuovi requisiti dei sistemi di gestione qualità per i Laboratori di prova” ANCQ, Dott. Di Tommaso, Messina, 05.02.2019.

“Costruzione ed Utilizzo delle Carte di Controllo”, UNICHIM, Dott. G. Perego, Messina, 04.10.2022

“Combined DNA index System Training” Course, held by FBI – Laboratory Division – CODIS Unit personnel and Criminal Police Central Directorate of Italian Ministry of Interior representatives, Rome, August 26-30th, 2013.

"Next Generation Forensic Solution" held by Applied Biosystem representative, 26/02/2014

“Forensic statistics” held by Arma dei Carabinieri trainers, 03/02/2010

“SOFTWARE GENEMAPPER ID-X1.1.1” held by Applied Biosystem representative, 25/02/2010

“Management of hazardous waste” held by ARPA Italian environmental agency, 13/03/2013

“Genemapper ID-X Software v.1.1”, expert system, profile comparison and mixture modules features held by Applied Biosystem representative, 25/02/2010

“3500HID GENETIC ANALYZER & GENE MAPPER IDX V1.2” held by Applied Biosystem representative, 29/02/2012

“SOFTWARE FREEZEWORKS BASIC Course” held by external consultant, 28/01/2014

“MINITAB TRAINING” Course, held by external consultant 11/03/2014

“Use e maintenance of genetic analyzer 3500xl” (AB), Data Collection Software, Library, Maintenance Menu, Calibration e performance check, Gene Mapper IDX: expert system, Profile comparison held by Applied Biosystem representatives, 16/04/2014

“BPA (BLOOD PATTERN ANALYSIS) Practical Course” held by external consultant of Arma Carabinieri, 01/12/2009

“Quality management Basic Course” held by external consultant, 08/03/2011

"Certification maintenance and traceability in UNI/ISO 9001:2008, UNI/ISO 17025, held by external personnel.” 03/06/2013

“Internal Auditor Course for Quality System ISO 9001:2008” held by external consultant 11/12/2013

"3° QIAGEN Investigator Forum" - “Validation and Quality Standards Experiences in casework” – “New and emerging technologies for forensic analysis” – “Mixture Interpretation DNA Interpretation Methods and Population Genetics" held in Hilde (Germany) at Qiagen Factory 01-02/04/2014

“Crime Scene Investigation Retraining course” for Italian State Police officers organized by I.C.A.A. (International Crime Analysis Association). Milan, June 13th, 2008.

“Interrogation Techniques Training Course” organized by I.C.A.A. (International Crime Analysis Association). Palmi (RC), May 17th, 2008.

“Crime Scene Investigation Basic Course” organized by I.C.A.A. (International Crime Analysis Association). Director: Prof. Marco Strano. Rome, October 27-28th, 2007

“Criminal Profiling Basic Course” organized by I.C.A.A. (International Crime Analysis Association). Director: Prof. Marco Strano. Reggio Calabria, June 2nd, 2007

“Sect Crime Basic Course” organized by I.C.A.A. (International Crime Analysis Association). Director: Prof. Marco Strano. Reggio Calabria, June 3rd, 2007

Certification Course “Forensic DNA analysis: ABI Prism 7500 Real Time PCR System and Quantifiler kit” organized by Applied Biosystem. Messina May 3rd, 2007

Full Immersion Training “Child abuse diagnosis and strategy of intervention” organized by I.C.A.A. (International Crime Analysis Association). Director: Prof. Marco Strano. Turin, March 17th, 2007

European Credit in Medicine (ECM) Course “Convegno di Criminologia Forense (Forensic Criminology Second Meeting) – Sects, between psychopathology and social disadvantage” organized by S.I.A.E.C.M. (Società Italiana per l'Educazione Continua in Medicina, *Italian society for the education in medicine*) at Centro di Cultura Scientifica Ettore Majorana. Erice (TP), May 11st-13rd, 2006.

Certification Course “3100 DCV GM ID 3.2 Forensic Training” organized by Applied Biosystem. Messina, April 18-19th, 2005.

PRESENTATIONS

Barone P.M., Di Luise E. A Multidisciplinary Approach to Crime Scene Investigation: A Cold Case Study and Proposal for Standardized Procedures in Buried Cadaver Searches over Large Areas, ENFSI SoC Meeting, Budapest, 2024

Di Luise E. Aquatic DNA degradation: limits and challenges for forensic typing. H₂O Criministics & Pathology Symposium, Catanzaro, Nov. 18-21th, 2010

Di Luise E., A study on short tandem repeat ACTBP2 (SE33) in a sicilian population sample. – Italian Forensic Geneticist Society (Ge.F.I.) 21th Congress Meeting, Lipari 5-7th September 2006

Di Luise E., Real Crime Scene Processing: application to forensic entomology. Lecture in the meeting “Reparti di Investigazione Scientifica – Tra fiction e realtà” (*Forensic Investigation Between fiction and reality*) organized by Natural History Museum of Capri (Naples). 12nd March 2008.

Di Luise E., “Detection of Genetically Modified Traits in Maize by Means of Event-Specific Multiplex PCR”. 6th National Biotechnology Congress, Padova, June 3-6th, 2003.

PUBLICATIONS

BOOKS

Gli insetti nelle scienze forensi (P. Magni e E. Di Luise) in Saravo L.; Curtotti D., Manuale delle investigazioni sulla Scena del Crimine, Giappichelli Editore, I-II-III Edizione. (*Criminal Investigation Handbook*).

Le tracce orfane. Botanica, micologia, zoologia, microbiologia e geoscienze nel mondo forense (P. Magni e E. Di Luise) in Saravo L.; Curtotti D., Manuale delle investigazioni sulla Scena del Crimine, Giappichelli Editore, I-II-III Edizione. (*Criminal Investigation Handbook*).

La scena criminis in ambiente acquatico (S. Scolaro, P. Magni e E. Di Luise) in Saravo L.; Curtotti D., Manuale delle investigazioni sulla Scena del Crimine, Giappichelli Editore, I-II-III Edizione. (*Criminal Investigation Handbook*).

Magni P, Massimelli M, Messina R, Mazzucco P, Di Luise E. Entomologia Forense – Gli insetti nelle indagini giudiziarie e medico-legali. Minerva Medica, sept. 2008; 267 pp. (*Forensic entomology didactical book*).

Magni P, Di Luise E. Entomologia Forense: gli insetti sulla scena del crimine. In: “Manuale di investigazione Criminale” a cura di Marco Strano. Nuovo Studio Tecna ed., marzo 2008. (*Chapter of forensic entomology in a Criminal Investigation Handbook*).

Di Luise E, Magni P, Saravo L. Gli insetti a servizio degli inquirenti. Rassegna dell'Arma dei Carabinieri, January-March 2007; vol. 1, pp 129-201. (*An introduction chapter of forensic entomology in Italian law enforcement – Ministry of Defense - Official Publication*).

L. Saravo, C. Romano, D. Di Martino, E. Di Luise et al., Chapter 10 “Laser Microdissection in Forensic Science” in Rapley R. and Whitehouse D. “Molecular Forensic”, WILEY Ltd (2007)

ARTICLES

Barone P.M., Di Luise E. A Multidisciplinary Approach to Crime Scene Investigation: A Cold Case Study and Proposal for Standardized Procedures in Buried Cadaver Searches over Large Areas, Forensic Sci. 2025, 5(3), 34

Di Luise E, Magni P, “Interim recommendations for the management of forensic investigation during the COVID-19 pandemic: An Italian perspective” Sci Justice 2021 Nov;61(6):735-742.

Di Luise E, Magni P, Staiti N, Spitaleri S, Romano C. “*Genotyping of human nuclear DNA recovered from the gut of fly larvae*”. Forensic Science International: Genetics Supplement Series, 2008. 1: 591-592.

Di Luise E., Saravo L., Ciuna I., Sapienza D., Asmundo A., Romano C (2008) – “*A study on short tandem repeat ACTBP2 (SE33) in a sicilian population sample*” - Forensic Science International: Genetics Supplement Series, 2008. 1: 320-321

Staiti N., Di Luise E., Ciuna I., Trapani C., Piscitello D., Quadrana F. and Romano C. (2008) – “*Old cadaver identification from severely spoiled bones: analytical approach to degraded DNA*” - Forensic Science International: Genetics Supplement Series, 2008. 1: 444-445.

Romano C., Di Luise E., Di Martino D., Spitaleri S. and Saravo L. (2006) – “*A Novel Approach for Genotyping of LCN-DNA Recovered from Highly Degraded Samples*” - Progress in Forensic Genetics 12 – ICS 1288, 577 - 579;

Spitaleri S., Romano C., Di Luise E., Ginestra E. and Saravo L. (2006) – “*Genotyping of human DNA recovered from mosquitoes found on a crime scene*” - Progress in Forensic Genetics 12 – ICS 1288, 574 – 576;

POSTERS AND PROCEEDINGS

Mattei, A. Di Luise E., Romano, C. Touch DNA profiling by means of chelexTM extraction methods from cyanoacrylate fumigated latent print developed on weapons, cartridges and casings. AAFS 2010 Meeting, Seattle (U.S.A) February 2010.

Di Luise E., Romano C., Mattei A. Schiavone S. DNA extraction from fingerprint enhanced by cyanoacrylate fuming. INTERPOL 2010 Symposium, Lyon, France.

Di Luise E., Romano, C. Mattei, DNA profiling protocol after superglue fumigation by means of chelexTM extraction methods. ENFSI-EAFA 2009 Conference, Glasgow (U.K.) september 8-11th, 2009

Di Luise E, Magni P, Staiti N, Spitaleri S, Romano CG. Human DNA typing of maggot gut contents. Poster Session 6th EAFE Meeting (European Association for Forensic Entomology), Crete 20-24th May 2008.

Di Luise E, Spitaleri S, Romano C, Ginestra E, Magni P, Saravo L. Human DNA typing from a mosquito (Diptera: Culicidae) blood meal found at a crime scene. Poster Session 5th EAFE Meeting (European Association for Forensic Entomology), Bruxelles, May 2nd-5th 2007.

Di Luise E, Magni P, Staiti N, Spitaleri S, Romano C. “*Genotyping of human nuclear DNA recovered from the gut of fly larvae*”. International Society of Forensic Genetics (ISFG) Meeting, Copenhagen, August 21-25th, 2007.

Di Luise E., Saravo L., Ciuna I., Sapienza D., Asmundo A., Romano C (2008) – “*A study on short tandem repeat ACTBP2 (SE33) in a sicilian population sample*” - International Society of Forensic Genetics (ISFG) Meeting, Copenhagen, Copenhagen, August 21-25th, 2007.

Staiti N., Di Luise E., Ciuna I., Trapani C., Piscitello D., Quadrana F. and Romano C. (2008) – “*Old cadaver identification from severely spoiled bones: analytical approach to degraded DNA*” - International Society of Forensic Genetics (ISFG) Meeting, Copenhagen, August 21-25th, 2007.

Romano C., Di Luise E., Di Martino D., Spitaleri S. and Saravo L. (2006) – “*A Novel Approach for Genotyping of LCN-DNA Recovered from Highly Degraded Samples*” - International Society of Forensic Genetics (ISFG) Meeting, Ponta Delgada, September 13-17th, 2005.

Spitaleri S., Romano C., Di Luise E., Ginestra E. and Saravo L. (2006) – “*Genotyping of human DNA recovered from mosquitoes found on a crime scene*” - International Society of Forensic Genetics (ISFG) Meeting, Ponta Delgada, September 13-17th, 2005.

Di Luise E., La Rosa R. , De griek I., De Loose M. e Van Bockstaele E. (2003). “*Detection of Genetically Modified Traits in Maize by Means of Event-Specific Multiplex PCR*”. pg.69, CNB Proceedings, 6th edition, Consorzio Interuniversitario Biotecnologie (CIB).