



Alessandro Guglielmetti

R&D Raw Materials Specialist

26/11/2021



1. Master's Thesis - Pharmaceutical Chemistry and Technology

March 2013 – October 2013

Pharmaceutical Biology and Food Chemistry (Prof. Cagliero, Prof. Bicchi)

Analytical approach

- Analytical chemistry
- GC-MS
- Sampling methods (SBSE, HS-SPME)
- Statistical analysis (PCA)

Project management



CORSO DI LAUREA MAGISTRALE IN CHIMICA E TECNOLOGIA FARMACEUTICHE

TESI DI LAUREA MAGISTRALE

Sviluppo di un metodo per la quantificazione di marker di qualità di matrici alimentari a base di pesca: accoppiamento di tecniche di campionamento ad alta capacità di concentrazione (SBSE) con analisi quantitativa mediante gascromatografia chirale veloce con fasi a base ciclodestrinica

Relatore: Dott.ssa Cecilia Lucia Cagliero

> Candidato: Alessandro Guglielmetti

Anno Accademico 2012-2013 Sessione Autunnale



2. PhD in Agricultural, Forest and Food Science January 2014 - February 2017

Dept. of Agricultural, Forest and Food Science (Prof. Zeppa, Prof. Gerbi)

- Overview on coffee processing
- Development of functional food products
- Sensory and chemical analysis of food products (HPLC-MS/MS)

Resilience

English

Project management

Paper writing Presentation



SCUOLA DI DOTTORATO IN SCIENZE DELLA NATURA E TECNOLOGIE INNOVATIVE

DOTTORATO IN SCIENZE AGRARIE, FORESTALI ED AGROALIMENTARI

CICLO: XXIX

"EVALUATION OF COFFEE SILVERSKIN AS SOURCE OF BIOACTIVE COMPOUNDS AND ITS POSSIBLE APPLICATION IN NOVEL FOODS"

Alessandro Guglielmetti

Docente guida: Prof. Giuseppe Zeppa Coordinatore del Ciclo: Prof. Aldo Ferrero

ANNI 2014; 2015; 2016

3. Visiting PhD Student

February 2016 - July 2016

Consejo Superior de Investigaciones Científicas

Institute of Food Science Research – CIAL, Madrid, Spain

"Development of a gluten-free bread using coffee silverskin as functional ingredient" (Dr. Maria Dolores del Castillo)

- Polyphenols (Folin), antioxidant capacity (DPPH, ABTS)
- Melanoidins, chemical gross composition
- Spectrophotometric enzyme assays, sensory analysis



Project management





4. Post Doc Research

March 2017 - December 2017

Pharmaceutical Biology and Food Chemistry (Prof. Cordero, Prof. Bicchi)

"Screening of volatiles in high quality chocolate using Comprehensive GCxGC and data mining in view of mapping them"

- Overview on cocoa processing
- Comprehensive two-dimensional gas chromatography (GCxGC-TOF-MS)



Presentation





5. Food Safety Process/Product - Central Quality Department

March 2018 - August 2018

• Food safety

FERRERO

- HACCP plan
- Organic Certification

skills

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Business
                      Networking abilities
                                                      mindset
Cross-cultural
communication
                                            Flexibility/
                                           Adaptability
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Networking abilities Flexibility/ Adaptability

Resilience

6. Raw Materials Quality & Suppliers Qualification

Fats, Oils & Emulsifiers

September 2018 - September 2019

- Auditing & Supplier Qualification
- Supplier management

Cross-cultural

communication

skills

• SAP Data Management System

Quality

English



Flexibility/ Adaptability

Networking abilities

Coffee, Tea, Coconut Biscuit granules, extruded cereals, other

Innovation

Business

mindset

Suppliers management

October 2019 - Present

- Semi-finished product development

Raw material specification definition

compounds for decoration & inclusion

- R&D Project management





English

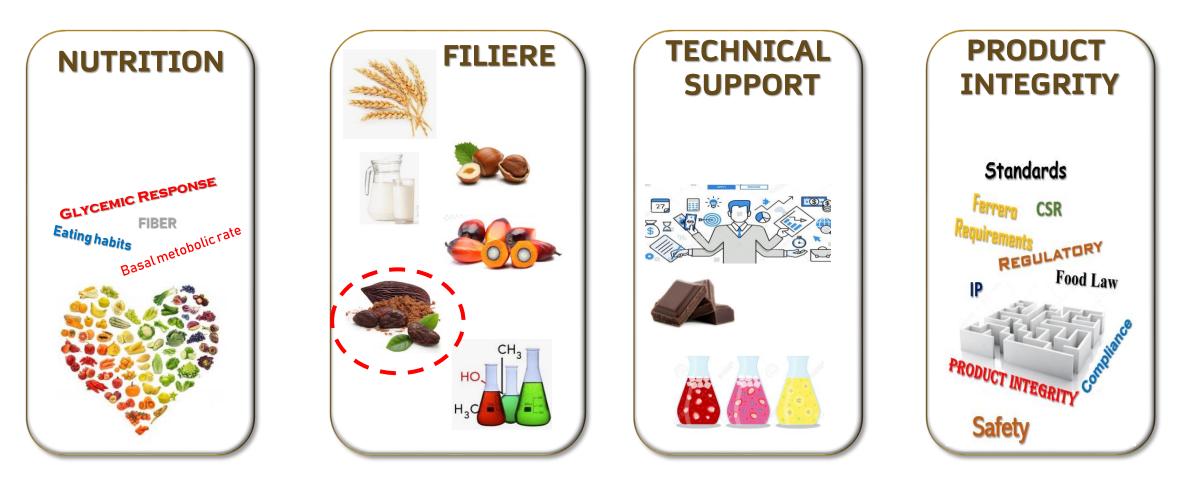








Scientific and Technical Department (DTS) - Soremartec



R&D Raw materials & semi-finished products





DTS

R&D Raw Materials Specialist – core activities

- R&D project management with internal/external partner (University, Research Center, suppliers etc..)
- Scouting of new raw materials / suppliers
- Shelf-life monitoring / sensory evaluation
- New semi-finished product development
- Specification definition (sampling plan, regulatory compliance)

Raw materials – focus on the process





Manufacturing site / Transport (freshness)



Roasting/extraction



Grading/infusion

Semi-finished products - Meringues





Technology: cold extrusion and cooking, coating



Application: external decoration

Semi-finished products - Biscuit granules



Technology: biscuit cooking and grinding





Application: external decoration; inclusion (crunchiness)

Semi-finished products - Biscuit granules



Technology: hot extrusion, coating



Application: external decoration; inclusion (crispy)





2 THANK YOU FOR YOUR ATTENTION **ANY QUESTIONS?**