



PROFILE

Chemist with master degree in applied chromatographic techniques with more than 3 years of experience in Food/Feed/Additives manufacturing industry. I have worked as analyst in the quality control and research and development laboratory. Familiarized with analytical techniques including titration, spectrophotometry UV-VIS, ICP-OES, enzymatic kinetic, GC, HPLC, dissolution profiles, MS, HRMS, tandem MS and with knowledge in Good Laboratory Practice (GLP) guidelines. I have participated in different research projects with Colombian and Spanish entities. Committed with the objectives of research established, able to work in a team and under pressure. The implementation of regulations like AOAC, USP, BP, ISO/IEC has allowed me to improve my skills in quality control and research. Interested to continue with my doctoral studies in analytical chemistry.

PERSONAL DETAILS

Name	Esteban Restrepo Montes
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EDUCATION

Master in Applied Chromatographic Techniques

Universitat Rovira i Virgili

Department of Analytical Chemistry and Organic Chemistry

Start date: September 2020

End date: June 2021

Final Master Work: " Análisis de fármacos y compuestos relacionados en aguas subterráneas del acuífero del delta del Río Besòs por SPE-HPLC-HRMS"

Undergraduate studies in Chemistry

Universidad del Quindío

Chemistry program with high quality accreditation, resolution 12340 of 2012

Research group *Plaguicidas y Salud*

Start date: January 2010

End date: December 2014

Graduation date: May 2015

Research Project: "VERIFICACIÓN DE MÉTODOS QuEChERS MODIFICADO PARA ANÁLISIS DE PLAGUICIDAS ORGANOCLORADOS EN TOMATE CHONTO (*Solanum lycopersicum*) Y AGUACATE HAS (*Persea americana*) POR GC- μ ECD"

HONOR AND AWARDS

- Meritorious mention (Distinction/honors awarded to the research project) for the research project "VERIFICACIÓN DE MÉTODOS. QuEChERS MODIFICADO PARA EL ANÁLISIS DE PLAGUICIDAS ORGANOCLORADOS EN TOMATE (*Solanum lycopersicum*) Y AGUACATE HASS (*Persea americana*) POR GC- μ ECD", Universidad del Quindío, May 2015.
- Ranked in second place Undergraduate Chemistry Student, Universidad del Quindío. May 2015

WORK EXPERIENCE

- PREMEX S.A.S. August, 2017 - July, 2019. R&D analyst.
 - Development, validation and verification of different methods for quantitative and qualitative analysis of additives, premixes, feed, animal tissue and animal blood.
 - Support the zootechnical testing performance through instrumental techniques (HPLC-DAD, HPLC-RID, GC-MS, ICP-OES, disolutor, etc) and enzymatic analysis.
 - Implementing ISO/IEC 17025:2017
 - Elaboration and validation of spreadsheets in excel.
 - Expression of uncertainty in chemical measurements.
- AOXLAB S.A.S. January, 2016 - July, 2017. Physicochemistry Laboratory analyst.
 - Bromatologic analysis, Liquid chromatography analysis.
 - Internal verifications of laboratory equipment.
 - Development of investigation projects.
 - Implementation of the normative ISO/IEC 17025:2005.
- Research group *Plaguicidas y Salud*, Universidad del Quindío. April, 2012 - August, 2015.
 - Gas Chromatographic analysis of organochlorine pesticides in different samples.
 - Preventive Internal maintenance of the Gas Chromatograph *Agilent Technologies* 6890N with electron microcapture detector, flame ionization detector and autosampler.
 - Review of nationals and internationals regulations for the Persistent Organic Pollutants (POP's).
 - Verification of methods for analyze organochlorine pesticides in avocado and tomato.
- Chemistry program, Universidad del Quindío. 2013, first academic term, 2014 first and second academic term, 535 hours working in the institution as Teacher assistant.

PROJECTS

- Verification of methods for analyze organochlorine pesticides in avocado and tomato.

- Analysis of pesticides residues in Dominico Hartón plantain (*Musa AAB simmonds*) in three producing farms of Quindío department.
- Analysis of organochlorine and organophosphorous pesticides residues in tomato chonto (*Solanum Lycopersicum*) marketed in the city of Armenia.

COMPLEMENTARY TRAINING

- Operation of the GCMS-QP2010 ULTRA shimadzu instrument and GCMS Solutions software
Short course
INSTRUSUPPORT S.A.S
March 2019
- Validation of analytical methodologies
Short course
Universidad Nacional de Colombia
September-October 2018
- GHS-Global Harmonized System
Short course
MOL LABS Ltda.
June 2018
- ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Short course
MOL LABS Ltda.
June 2018
- Operation of the ICPE 9000 instrument and ICPE solutions software
Short course
INSTRUSUPPORT S.A.S
February 2018
- Expression of uncertainty in chemical measurements (GUM)
Short course
MOL LABS Ltda.
September 2017
- Electroanalitic
Short course
Universidad del Quindío
April 2015
- Química ambiental.
Elective course
Universidad del Quindío
2014

- **Catálisis computacional**
Short curse
Universidad del Quindío
September 2013
- **Catálisis homogénea y Nanocatálisis**
Short curse
Universidad del Quindío
September 2013
- **Sample preparation and analytical techniques of separation**
Complementary course
Laboratorio Plaguicidas y Salud, Universidad del Quindío.
First and second academic term 2012

SCIENTIFIC EVENTS AND PRODUCTS

- **Quo Vadis Life Science Conference**
XII Polish Chromatography Conference (PKChrom 2021), XIII International Scientific Conference Ion Chromatography and Related Techniques 2021 (IC 2021) and II International Conference on Ion Analysis (ICIA 2021)

Poster presentation: Evaluation of the fate of pharmaceuticals in groundwater from an urban aquifer with LC-HRMS methodology
- **XV COLACRO-VII COCOCRO**
XV Congreso Latinoamericano de Cromatografía y Técnicas Afines - VII Congreso Colombiano de Cromatografía.

Poster presentation: Análisis de residuos de plaguicidas organoclorados en plátano dominico hartón (*Musa AAB Simmonds*) en tres fincas productoras del departamento del Quindío.
- **VIII SICCAT -VI SIQUIA**
VIII Simposio Colombiano de Catálisis - VI Simposio de Química Aplicada.

Poster presentation: Análisis de residuos de plaguicidas en plátano Dominico Hartón (*Musa AAB Simmonds*) empleando QuEChERS-GC- μ ECD.
- **III Simposio Internacional de Investigaciones TIC en la Educación.**
- **V SIQUIA**
VI Simposio de Química Aplicada “Electroquímica”.
- **VII Encuentro interinstitucional de semilleros de investigación EAM, Apropiación social del conocimiento.**
- **RREDSI Red Regional de Semilleros de Investigación**

Cuarto Encuentro Regional de Semilleros de Investigación y Tercer Encuentro Nacional de Experiencias Significativas en Investigación Formativa.

PUBLICATIONS

- Residuos de plaguicidas en tomate (*Solanum lycopersicum*) comercializado en Armenia, Colombia.
Alejandro García Ríos, Cristian Camilo Rodríguez Vidal, Esteban Restrepo Montes, Alberto Sánchez López.
VITAE, REVISTA DE LA FACULTAD DE CIENCIAS FARMACÉUTICAS Y ALIMENTARIAS, Volumen 24-2 (Supl. 2), 68-79, (2017)
DOI: [http://dx.doi.org/10.17533/udea.vitae.v24n2\(2\)a08](http://dx.doi.org/10.17533/udea.vitae.v24n2(2)a08)

SKILLS

- Languages: Spanish (Mother tongue).
English (Writes: intermediate, Reads: intermediate, Speaks: intermediate)
- Softwares: Office (Word, Excel, Power Point), GC *ChemStation Agilent Technologies*, LC *Solutions Shimadzu*, ICPE *Solutions*, GCMS *Solutions*, *SkanIt software*, *Xcalibur Thermo*, *Trace Finder by Thermo*.
- Operating systems: Windows.
- Instrumental equipment: HPLC *shimadzu prominence with PDA, SPD and RID detectors*, HPLC GCMS-QP2010 ULTRA *shimadzu*, *microplate reader Multiskan GO Thermo Scientific*, ICPE *Shimadzu 9000*.

REFERENCES

PhD. Sandra Pérez Solsona
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PhD. Nicola Montemurro
Postdoctoral Researcher
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