

# Christian A. Torres-Cotty

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**Date available to begin work:** Immediately

## SUMMARY STATEMENT

Biologist. Master of Science in Biomedical Sciences with three years of laboratory research experience. Certified Medical Laboratory Scientist with more than two years of clinical experience in Histocompatibility/Immunogenetics and Hospital Clinical Laboratory. Knowledgeable in transplant immunology and other organ transplantation related sciences. Dexterous of scientific techniques and procedures in biology field. Highly detail oriented and manageable with new technology and laboratory computer software.

## PROFESSIONAL SKILLS

**Education** Thorough knowledge in biochemistry, immunology, physiology, genetics, microbiology, molecular biology, and other biomedical sciences. Trained in the basic medical sciences, research and interpretation of scientific literature. Knowledgeable in planning, conducting and evaluating experiments with ability to extract meaningful data. Professional knowledge of principles, theories, and practices of biology. Skilled in modifying analytical methods to solve problems or respond to complex technical issues when such applications are not covered in the scientific literature.

**Employment** Hands-on performance in a clinical and research laboratory setting. Knowledge of laboratory scientific and administrative procedures. Understanding of safety and quality control/quality assurance practices. Project management complying with regulations skills. Perform research and write laboratory notes. Plan, coordinate and execute validations. Provide training as required. Maintains laboratory equipment. Skilled in calibrating and operating analytical instruments. Skill in modifying analytical methods to solve problems or respond to complex technical issues. Conduct tests using classical DNA methodology and provide analyses on body fluids. Evaluates all test results for validity and overall reasonableness. Tabulate data from instruments and provide results to prepare detailed documentation. Assist in the preparation, evaluation, and checking of laboratory chemicals. Maintains liaison with vendors, company specialists and IT department.

**Personal** Bilingual: Spanish (advanced) & English (advanced). Oral and written communications skills. Very reserved, motivated and agreeable personality. Skilled in evaluating and interpreting problems. High level of creative, analytical, and independent problem-solving skills. Ability to perform examinations and work activities of increasing complexity. Organizational team working skills. Statistical computing, evaluation, interpretation and data analysis skills. Organization of documentation. Manageable with microcomputers and computer software.

## PROFESSIONAL WORK EXPERIENCE

**Medical Laboratory Scientist**, February 2017 – Present  
**Histocompatibility and Immunogenetics Laboratory**  
**Auxilio Mutuo Hospital**, San Juan, PR  
**Job Type:** 40 hours per week, Full-Time

*HLA-DNA Typing by reverse SSOP, SSP and RT-PCR. Ab Screening and Single Antigen Identification by Microbeads array. Lymphocyte cross-matching by cytotoxicity and Flow Cytometry. Immunophenotyping (LSP and CD34+ count) by Flow Cytometry. Molecular identification of infectious diseases by Nucleic acid testing and RT-PCR. Prepare solutions, buffers, and reagents. Prepare samples for analysis. Experienced analyzing, reporting and/or supervising results on the following laboratory software: Linkage Biosciences SureTyper™, Olerup SCORE 6 & One-Lambda FUSION.*

*Assist supervisory staff, keeping inventory and compiling, maintaining, and recording quality control data of Flow Cytometry & NAT areas. As also, coordinates maintenance and instrumentation repairs with vendors and specialists. Serve as liaison to the IT department for laboratory related issues and Flow Cytometers interface communication. Acts as laboratory representative on DSA Tracking discussion committee with medical/nephrology faculty from hospital's transplant center. Perform validation/implementation of new procedures and/or equipment. Creates new protocols and provide personnel with necessary education/training.*

**Medical Laboratory Assistant**, August 2016 – January 2017

**Histocompatibility and Immunogenetics Laboratory**

**Central Clinical Laboratory**

**Auxilio Mutuo Hospital**, San Juan, PR

**Job Type:** 40 hours per week, Full-Time

*Provided support to the clinical and technical staff at the Central Clinical Laboratory, and Histocompatibility/Immunogenetics Laboratory. Received and processed specimen/samples to identify suitability. Prepared samples for testing using various types of laboratory equipment. Labeled specimens accurately and distributed to appropriate department. Prepared and maintained laboratory records. Performed quality control as requested by laboratory supervision. Cleaned and maintained work area, lab equipment and supplies.*

*Oversaw relocation and organization of the storage room at the central clinical laboratory. Reorganized inventory/preparation of donors' samples for long-term preservation. Assisted in optimizing the receiving process of monthly samples for antibodies screening from potential kidney transplantation patients.*

## **OTHER WORK EXPERIENCE**

**Medical Laboratory Scientist Trainee**, February 2016 – July 2016

**Histocompatibility and Immunogenetics Laboratory**

**Central Clinical Laboratory**

**Auxilio Mutuo Hospital**, San Juan, PR

**Salary:** Clinical Practice

**Job Type:** 40 hours per week, Full-Time

*Microbiology, analyzed body fluids to identify and isolate infectious disease-causing microorganisms using multiple techniques, equipment, culture media, and optical microscopes. Human Chemistry/Urinalysis, conducted chemical analyses of blood, urine, and spinal fluids by multiple equipment for determination of normal and abnormal components/levels of these body fluids. Hematology, analyzed blood samples by counting and identifying cells using automated equipment and manual differentials by optical microscopes techniques. Blood Bank, conducted blood group and typing tests on blood and plasma for potential transfusions. Ensured proper operation of laboratory equipment by calibrating, completing preventive maintenance, troubleshooting malfunctions, and maintaining equipment inventories.*

**Laboratory Researcher**, August 2012 – June 2015

**Ponce Health Sciences University**, Ponce, PR

**Salary:** Graduate Program

**Job Type:** 40 hours per week, Full-Time

*Research in chemoprevention of mutagenesis using RT-qPCR for the detection of oxidative damage in mitochondrial DNA from mice treated with Paraquat and N-acetyl-cysteine. Applied the biomedical techniques to the understanding of Autism Spectrum Disorder in the Puerto Rican population. Performed rodent stereotaxic surgery to prepare the subjects for infusion, recovery treatments, and perfusion fixation for brain samples collection. Studied the actin binding proteins interactions at the Adherent Junctions. Performed immunoblots for multiple proteins and RT-qPCR to assess the expression at the mRNA level. Performed immunofluorescence to study distribution of cortical actin filaments.*

## **EDUCATION**

**Professional Certificate in Medical Technology**, July 2016  
Interamerican University of Puerto Rico – Metro Campus, San Juan, PR

**Master of Science in Biomedical Sciences**, July 2015  
Ponce Health Sciences University, Ponce, PR

**Bachelor of Science in Biology**, July 2011  
Interamerican University of Puerto Rico – San German Campus, San German, PR

## **CERTIFICATIONS/ACHIEVEMENTS**

**Certified Medical Laboratory Scientist**, September 2016  
American Society for Clinical Pathology (ASCP), Chicago, IL  
Certification Number: 257853

**Licensed Medical Technologist**, November 2016  
Board of Examiners - Medical Technologists of Puerto Rico, San Juan, PR  
State License Number: 008593

**Protecting Human Research Participants**, October 2014  
National Institutes of Health Office of Extramural Research, Bethesda, MD  
Certification Number: 1585540

## **TRAINING**

**2018 Regional Education Workshop**, April 13-14, 2018: 15 hours  
American Society for Histocompatibility and Immunogenetics (ASHI)  
Bally's Las Vegas Hotel & Casino, Las Vegas, Nevada, USA

**RT-PCR Methodology for HLA Typing Workshop**, March 30, 2017: 7 hours  
Olerup QTYPE, Caredx Inc.  
Auxilio Mutuo Hospital, San Juan, PR

**Advanced Analytical Quality Practices Workshop**, June 2-3, 2016: 12 hours  
Wallace H. Coulter Foundation  
Caribe Hilton Hotel, San Juan, PR

## **VOLUNTEER EXPERIENCE / COMMUNITY SERVICE**

**ASHI Technologist Affairs Committee**, December 2017 – Present  
American Society for Histocompatibility and Immunogenetics (ASHI), Alexandria, VA.

- Assists with writing and review of educational modules for ASHI University.
- Provide articles and tech ideas for the Technologist Section of the ASHI-Quarterly.
- Promote discussions within the Technologist Forum.
- Provide support to committee chair.
- Attend conference calls and committee meetings.
- Complete tasks as designated by the committee chair in concordance with the ASHI strategic plan.