

Kimberly S. Hamroff, M.S.
An Outstanding Opportunity for a Multi-Talented & Versatile Science
Professional With 20 Years Experience

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Education:

M.S., Natural Science-(Molecular Genetics Dept.) Roswell Park Cancer Institute/ State University of New York at Buffalo, 2005;

B.A., Biology (Cellular-Molecular Concentration) -University of California- Santa Cruz, 2003

Certifications/ Awards/ Recognitions:

New York State (NYS) Licensed Clinical Laboratory Technologist Lab Supervisor

College of American Pathologists (CAP) Proficiencies-Cellular Immunology, Reproductive Endocrinology (Siemens Immulite Platform), COV-2, ID3 (SARS-CoV-2/ Flu/ RSV), HC7 Chlamydia/Gonorrhoea (CT/NG) DNA by NAA (Nucleic Acid Amplification)- via Cepheid GeneXpert

Days for Girls Women's Health Ambassador- Certified- Supporting Efforts Worldwide for Innovating Sustainable Solutions that shatter stigma and limitations for women and girls related to menstrual care & education; advocating for women's international health policy & goals

Cepheid GeneXpert Infinity-48s: Xpert Xpress SARS-CoV-2 (RNA) and Xpert CT/NG (DNA) Assay Certificates

- **FDNY C-14 Certificate of Fitness (C.O.F.) for Supervising Non-Production Chemical Laboratories**
- **NYC Dept. of Health Distinguished Service Award (ALM III/ Lab Site Lead Role) 2020-2021; 2021-2022; 2022- Present**
- **NY News 1 Segment with NYC Dept. of Health (DOH)'s First Deputy Commissioner, Dr. Oxiris Barbot, (Recognition Segment as Lab Staff Trainer In-Action in NYC DOH's First Cepheid COVID Response lab, April, 2020): Virology Molecular Core Lab (BSL-2), Featured Minutes: 0.01-0.08 min;0.43-0.46 min.**

<https://www.ny1.com/nyc/all-boroughs/news/2020/04/24/a-tour-of-the-new-york-city-public-health-laborator#>

- **NYC Mayor's Office News Segment with NYC Mayor De Blasio's First Lady, Chirlane McCray, Recognition as NYC Dept. of Health's "Site Leads," @ COVID Express Quickie Clinic Labs Across NYC, December, 2020) Featured Minutes: 10:15min.-13:25 min.**

<https://youtu.be/PgwL9cu25v8>

- **Featured Expertise: Op-Ed Published in the NY Academy of Sciences 100th Anniversary Online Edition- Continuing to Imagine the Next 100 Years: "I Imagine a Future With Personalized Medicine" (using cellular genetic engineering to self-heal/ CAR-T)**

<https://www.nyas.org/news-articles/academy-news/continuing-to-imagine-the-next-100-years-of-science-and-technology/>

Work Experience:

- ***Promotion in 2020 To Present Role:**

**NYC Dept. of Health & Mental Hygiene (DOHMH)- Public Health Lab- ALM III (Lab Site Lead)/
Manager of Multiple Public Health (Clinical) Laboratories:**

Molecular PCR (DNA & RNA-Based Assays)

- **Lab Manager: Start-up & Operations**, of numerous laboratories/ assays for COVID/FLU/RSV Express testing & Molecular STD serving numerous Clinics throughout New York City Boroughs: Manager/ Overseer of Numerous Lab Technologists & Lab Supervisors Across Multiple Lab Sites
- **High Test Volumes & Rapid Turn-Around Times**

Molecular RNA-Based PCR Testing: Xpert Xpress SARS-CoV-2 & Xpert Xpress SARS-CoV-2/Flu/RSV testing, Molecular DNA- Based PCR Testing: Xpert CT/NG Assay on Cepheid GeneXpert Infinity Platforms

-**Creation of SOPMs** (Standard Operating Procedure Manuals), Maintenance & Updates/ Improvements based on practical workflows, and in understandable detail for new & existing employees.

- **Creation of Training Materials & Documents** for Lab Staff Competency Assessments, Including **New & Existing Employees**

- **Creation of Templates/ Logs For QC/ QA Activities/ Maintenance/ Documentation**

- Principle Trainer & Overseer of 60+ Rotating Lab Staff, Including Lab Supervisors & Lab Technologists.
- Liaison with Data Analytics Team**/ Numerical Reporting/ Rate to ECLRS/ NYS, Ct (Cycle Threshold) Values Data Reporting, Evaluations of **Monthly Performance Measures** (including **Turn-Around Time, Testing volumes**, etc.) Reports; Liaison with LIS/ I.T. Depts. On Multiple Past & Present Projects: Principle Subject Matter Expert (SME) & Creator of **User Acceptance Testing for Multiple New Assays**
- Principle Contact/ Preparer Before, During, & after **NYS Lab Inspections**; Tracer of Personnel Files/ Credentials, Educational & H.R. annual training requirements (HIPAA, Data Confidentiality, Code of Ethics, etc.), **Staff Performance Evaluations** (of Lab Supervisors & Lab Technologists), Host/ Agenda/ Speaker at **Monthly Staff Meetings with Lab Supervisors** Across Multiple Labs/ Locations
- Currently Serving on **Interview Panel of Subject Matter Experts** to Interview/ Hiring Decisions of Potential Assistant Supervisor & Supervisor Candidates for Multiple Labs
- Principle Project Planner/ Designer of **Validations & Verifications Studies** (NYS Compliance) for **Implementation of New Assays, Protocols, & Specimen Types/ Collection** Procedures for above laboratories; **multi-system agreement studies; development of IQCPs (individualized Quality Control Plans) & their Annual Reviews/ Summary Assessments**
- **Scheduling & Staffing, Evaluation & Recommendations on Workflow Improvements, Lab Safety (Chemical, Biological, BSL-2, Lab & Occupational Safety)**
- Liaison between lab staff and clinic managers/ clinic staff workflows & communications as needed**
- **Liaison with Scientific Vendors** for Products, price quotes, as needed; Liaison with NY DOH Finance Depts. for purchase orders (including annual blanket P.O.s) / P-card purchases
- Principle **Calibrations** Liaison & Service Vendor Liaison; Environmental Monitoring

◆ **NYC Dept. of Health & Mental Hygiene (DOHMH)- Public Health Lab (2018-2020*)**

Associate Lab Microbiologist II (Lab Supervisor), PHL Quickie Lab at Chelsea Sexual Health Center:

- Start-up of new lab concept (Quickie Lab), serving Chelsea Express Clinic, for rapid detection of Chlamydia/ Gonorrhea on-site: utilizing Cepheid GeneXpert Infinity-48s platform, Real-Time PCR with DNA Targets; Training of Staff Technologists/ Creation of Training Materials & Assay SOPMs.
- Lab Operations & Processing Workflows; Supervisor of Lab Technologists
- Developed verifications/validations/IQCP, N.Y.S. Modification of Microbiology NAA FDA-approved assay (i.e.- additional specimen types); SOPM; Training & Supervision of PHL Lab Staff; Competency Assessments; N.Y.S. Lab Inspections
- Testing Supervisor utilizing Cepheid GeneXpert Infinity-48s Chlamydia/Gonorrhea assay (Real-Time PCR with DNA Targets)
- LIS validations/ verification studies for new assay; electronic inventory system; validations/coordination of lab supplies; lab vendor requests/quotes/ordering; Control Trend Reports (Levey-Jennings); Environmental Monitoring; Instrument Maintenance; Calibrations/ Service Scheduling & Troubleshooting; Cepheid Engineer Communications & Relations; STD EMR resolution, fostering relationships with Clinic Managers, Public Health Assistants; Specimen Traceability

◆ **Columbia University, Center for Women's Reproductive Care, (2009-2018)**

New York State Licensed Clinical Laboratory Technologist & Interim Supervisor, OB/GYN-Human Reproductive Endocrinology/ Infertility Specialist:

ELISA technology (Enzymatic Immunoassays), Hormone- Antibody-based assays (Immunoassays), Quality/ Data Control, Research Studies, Assay/Product/ Protocol Set-Up, Data Analysis: AMH Gen II ELISA- Biotek Gen5 Software, Standard Curves, Excel/ Levey-Jennings Data Plots, Beckman Coulter & Siemens Instrumentation, Product Validations & Improvements, Lab Coordination- HIPAA, Lab Safety & Chemical Hygiene/ Doctor-Nurse Relations- Communications & Solutions; LIMS & EHR; Interim Supervisory Experience

◆ **ICON Central Laboratories, Inc., Cellular Immunology/Flow Cytometry Lab Farmingdale, NY (2007-2009)**

Technologist: Clinical Trials Testing for Pharmaceutical Companies, Including HIV/AIDS studies, Lupus, B-cell studies, Tumor Studies, and Leukemias/ Lymphomas, via Human Blood Immunophenotyping, BD FACScan Instrumentation & FCS Express Software
. Testing, Research, Data Analysis, Quality Control

◆ **Winthrop University Hospital, Cytogenetics Laboratory**, Mineola, NY (2006-2007)

Medical Technologist: Genetic Analysis for Fetal Autopsy, Culturing of Human Tissues (Maternal Products of Conception, Fetal parts, Tumors) & Human Blood for **genetic analysis**; Screening and selection of tissue cultures, cell harvesting, microscope slide preparation/ staining, Phase Microscopy (I.D. Tissue Type & Mitotic Cells; Dissection); specimen chain-of-custody

◆ **Roswell Park Cancer Institute: Dept. of Cancer Genetics**, Laboratory of Dr. Kowalski

Buffalo, NY (2003-2005): *Research Culminated in written thesis*

Pre-Doctorate Research Affiliate:

Investigated the role of 2 checkpoint **genes: TOF1 & MRC1**, in the **molecular mechanism** of cytotoxic/ **anti-tumor drug adozelesin** (utilizing budding yeast, *Saccharomyces cerevisiae*, as a genetic model), to study the agent's effects on:

-**DNA Replication:** Initiation & Suppression (at Origins of DNA Replication),

-**DNA Damage Response; Genomic & Chromosomal Stability**

◆**Carlyle Shreeve- Smith Laboratory** at

Garvies Point Science Museum/ Nature Preserve, Glen Cove, NY (Summer, 2002)

Instructor/ Coordinator of Ecology/ Microbiology Science Workshops; **Leader of Science Activities**-Investigation and Analysis of Diverse Species & Organisms: instruction of roles, characteristics & dynamic effects on ecosystems

Skills:

-**Leadership/ Organization/ Goal-Setting, Practicality, Innovation, Solutions, Staff Training, Fostering Positive Work Environment/ Work Practices/ Workflows, Encouraging Accomplishments & Growth, Serving as role-model & mentor to early-career lab staff**

DNA & RNA Automated Technology (Cepheid Genexpert Infinity-48s instrument):

Real-Time PCR with DNA Targets (CT/NG assay) & Real Time Reverse- Transcriptase PCR with RNA Targets (SARS-CoV-2 assay)

FACS/ Flow Cytometry (DNA/ Cell Cycle Analysis + Immunophenotyping), Southern Hybridization/ Southern

Blots using DNA probes, DNA Isolation- Analysis-Manipulation, DNA Cloning/ Transformations using *E. Coli*

PUC-19 shuttle vector, Plasmid Selection and Screening, 1-& 2-D DNA Agarose Gel Electrophoresis, Human

Tissue Cultures, Blood Cultures, Streak Plating Technique of Bacterial & Yeast Cultures, Human Tissue

Identification, Cell Harvesting, Electron & Phase Microscopy, Slide Prep,

Cytotoxicity & Cell Growth Assays, Experience with Human Blood & Tissues

Excellence in QC/ Documentation/ Science Writing/ Software- Data Analysis