

RAYNARD COCKRELL

Raynard.Cockrell@hccs.edu

PERSONAL QUALIFICATIONS:

- Excellent verbal and written communication skills.
- Strong interpersonal skills.
- Strong trouble shooting skills.
- Able to work independently and as part of a group.
- Resourceful and able to achieve set goals.
- Twelve years in forensic science field and education.
- Extensive practical experience in forensic and laboratory analysis, academic teaching and student supervision, writing, and leadership.
- Expertise includes forensic drug chemistry analysis, forensic DNA and serology analysis, DNA sequencing, teaching, writing and editing.

PROFESSIONAL WORK EXPERIENCE

Adjunct Professor - Department of Biology

Houston Community College

Houston, Texas

September 2010 - Present

- Taught anatomy and physiology for health professions students.
- Taught freshman biology courses

Visiting Instructor, Department of Biology

Texas Southern University

Houston, Texas

September 2008 – August 2010

- Taught freshman majors and Life Sciences for non-majors courses.

Science Specialist

Zoe Learning Academy

Houston, Texas

August 2007-November 2007

- Instructor of Science (grades K thru 6).

Forensic Biologist and Drug Chemist

Houston Police Department

Crime Lab Division

Houston, Texas

March 1995-March 2007

- Analyzed evidence for the presence of controlled substances and dangerous drugs.
- Analyzed evidence for DNA type.
- Analyzed evidence to determine presence of a body fluid.
- Operated the GC/MS, FTIR, and the GC Headspace analysis of evidence for the detection of alcohol
- Operated the ABI 310 and 3100 DNA sequencers

Research Technician - Human Genome Project
Department of Human Genetics
Baylor College of Medicine
Houston, Texas

September 2000 - October 2006

- Conducted DNA purification, PCR, DNA sequencing, Southern Analysis, polyacrylamide gel electrophoresis, bacterial transformation and cloning, and cell culture.
- Use of typical word processing, spreadsheet and graphic software.
- Required ability to prioritize and the willingness to develop additional skills.
- Handled multiple tasks, trained new staff, trained and assisted students working in the laboratory, and worked as cross coverage for other staff.
- Was under minimal supervision and performed complex coordination of projects and other assignments on a regular basis and in an independent manner.
- Instrumental skills included the ABI 3100, 3700 and 3730-XL DNA Sequencers.

Research Technician - Molecular Physiology
Department of Molecular Physiology and Biophysics
Baylor College of Medicine
Houston, Texas

1993-1995

- Worked on projects dealing with the expression of ion channels in the membrane of *X. laevis* oocytes.
- Micro-oocyte injections of recombinant cDNA.

Instructor - Department of Biology
Texas Southern University
Houston, Texas

1994-1997

- Taught freshman courses in General Biology for majors and Life Sciences for non-majors.

Adjunct Professor - Department of Biology
Houston Community College
Houston, Texas

1994-2000

- Taught anatomy and physiology for health professions students.
- Taught freshman biology courses

Teaching Assistant - Department of Biology
Texas Southern University, Houston, Texas
1992-1993

- Taught freshman biology and cell biology laboratories.

Graduate Research Assistant - Department of Chemistry
Texas Southern University, Houston, Texas
1991-1992

- Worked in the biochemistry laboratory.

Substitute Teacher
Houston Independent School District (HISD), Houston, Texas
1990-1992

- Took on the responsibility of absent full-time teachers. Qualified to substitute in all areas falling under the umbrella of Arts and Sciences.

EDUCATION

1993 Master of Science - Biology, Texas Southern University, Houston, Texas

1990 Bachelor of Science - Biology, Texas Southern University, Houston, Texas

HONORS/AWARDS & ACCOMPLISHMENTS

- Tri-Beta Biological Honor Society, Member
- Recipient of the MBRS Scholarship.
- National Honorary Band Fraternity. Spring 1985.
- Who's Who Among College Band Members
- Highest Ranking G.P.A. (3.7) of 1984 graduating males.
- National High School Honor Society.

BIBLIOGRAPHY

The finished DNA sequence of human chromosome 12. Scherer SE, Muzny DM, Buhay CJ, Chen *et al.*, Chu J, *Cockrell R*, Cox CD, *et al.*, Weinstock G, Gibbs RA; Baylor College of Medicine Human Genome Sequencing Center Sequence Production Team. *Nature*. 2006 Mar 16;440(7082):346-51.

PROFESSIONAL REFERENCES

Dr. Desiree Jackson

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Interim Assistant Dean for Student Services & Instructional Support
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Zoe Learning Academy
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Dr. Richard Gibbs/Christy Smith

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