

1 **THE COURT:** Thank you. Please be
2 seated.

3 **MR. LEONARD:** May I proceed?

4 **THE COURT:** Yes, sir.

5 **MR. LEONARD:** Thank you.

6 **ROBIN GUIDRY,**
7 having been first duly sworn, testified as follows:

8 **DIRECT EXAMINATION**

9 **Q.** **(BY MR. LEONARD)** Good afternoon,
10 Ms. Guidry.

11 A. Good afternoon.

12 **Q.** Please introduce yourself to the jury.

13 A. My name is Robin Guidry. That's
14 G-U-I-D-R-Y. I am the DNA technical leader with the
15 Houston Police crime laboratory, biology section.

16 **Q.** And how long have you been with the Houston
17 Police Department crime lab?

18 A. Just made five years.

19 **Q.** And what exactly is it that you do in your
20 role?

21 A. As a technical leader, I don't do a whole
22 lot of casework anymore. It's almost entirely a
23 supervisory role. I'm responsible for the technical
24 protocols that are used in the laboratory, and I do
25 directly supervise several casework analysts.

1 Q. Okay. Tell the jury a little bit about
2 your background and your training.

3 A. Sure. I have a Bachelor of Science degree
4 in biology from Loyola University in New Orleans. I
5 also have a Master of Science from the University of
6 Florida in forensic serology and DNA.

7 I'm a fellow with the American Board
8 of Criminalistics in molecular biology. In addition
9 to the educational requirements that I have to be a
10 DNA analyst, I also have all of the training
11 requirements that are needed to be a forensic DNA
12 analyst.

13 In any forensic laboratory that's
14 accredited, in order to perform a particular
15 procedure on casework, you must be competency and
16 proficiency tested, meaning I have demonstrated an
17 ability to do that procedure successfully.

18 Q. Have you taken any continuing education as
19 a part of your training and professional experience?

20 A. I have. Again, because we're accredited,
21 we are required to have at least eight hours a year.
22 In the last year, I have received at least a week's
23 worth of external training on new technologies and
24 sort of current issues in the forensic DNA field.

25 Q. I want to talk to you a little bit about

1 your role in this particular case. What is it --
2 what is it that you were responsible for?

3 A. My role was extremely limited in this case.
4 I simply helped one of my coworkers by loading some
5 DNA product onto the genetic analyzer instrument.
6 So, I simply took amplified DNA product and put it
7 into a genetic analyzer.

8 Have those concepts been explained?

9 Q. Sure. We have talked about the extraction
10 process. We have talked about quantification. We
11 have talked about amplification. And the final step
12 would be interpretation.

13 I guess at what point during the
14 process would your role come into play?

15 A. Sure. In this particular case, an analyst
16 amplified some reference samples. So, she took
17 extracted DNA, which is a cleaned-up form of DNA, and
18 made millions and millions of copies of it. I took
19 that amplified product and loaded it into a genetic
20 analyzer. There is an instrument that separates DNA
21 fragments -- DNA is inherently negatively charged.
22 So, when an electrical field is applied, it will
23 migrate to a positive source; and that's how we
24 interpret our DNA.

25 We separate it in fragments, and

1 simply I took the amplified product, put it on the
2 instrument; and that was the extent of my role here.

3 Q. Okay. And when you say you took the
4 amplified product, where did you get it from?

5 A. We -- in the DNA laboratory -- forensic DNA
6 laboratory, you have two distinct areas. One is
7 pre-amplification, and one is post-amplification.
8 The pre-amplification area is where you do the
9 extraction and quantities set. Post-amp is the area
10 where the amplification occurs, where the millions of
11 copies of DNA are being made. And it's critical that
12 the areas are separated because in theory you have a
13 lot of DNA. In our post-amp -- and you don't want
14 that DNA to get into your pre-amp area and
15 potentially contaminate.

16 So, within that post-amp area, I
17 retrieved her amplification plate, either off of the
18 thermal cycle itself or one of the refrigerators and
19 prepared a load plate to put the samples onto the
20 genetic analyzer. I would not have taken her entire
21 amp product but simply a portion of her amp product
22 and loaded it onto the instrument for separation.

23 Q. And what sorts of safeguards would you be
24 using to make sure that there is not
25 cross-contamination or disturbing the samples that

1 you are testing?

2 A. We go through great lengths to ensure that
3 we maintain a contamination-free environment. At a
4 minimum, the analysts are wearing coats and gloves
5 and facemasks to prevent ourselves from contaminating
6 the samples; and also protect ourselves from the
7 samples because sometimes we have biohazardous
8 materials like blood.

9 But in addition to that, samples that
10 are known to be of a high level, such as a reference
11 sample, would not be handled next to a sample that is
12 low level because we would not want that potential
13 contamination to occur. Then -- so, we do all these
14 things to prevent contamination; but we also have
15 mechanisms in place to detect it if it were to occur.
16 And if we detected contamination, we would not use
17 that data.

18 The most important control that we use
19 for that is called react points, and that is a sample
20 that we sort of introduce into the process at the
21 very beginning. We load all the same chemicals that
22 we apply to the samples. We just don't put DNA. It
23 goes through the entire process, and at the end it
24 has to be free of DNA. If it is free of DNA, we can
25 have confidence that a DNA profile obtained on a

1 sample came from that sample and not from reagents
2 that we introduced in the laboratory.

3 Q. And were you involved in reading any of the
4 results with regards to the reagent blank that was
5 used in this particular case?

6 A. In this case, I did no interpretation,
7 simply loaded the samples.

8 Q. Okay. What did you do after you loaded the
9 samples?

10 A. I would have created the plate, put it on
11 the instrument, set the instrument up, and given the
12 reporting analyst the name of my run file so that
13 they could retrieve the data and perform
14 interpretation.

15 Q. And did you make notes with regards to your
16 work in this case?

17 A. I -- there is not a worksheet for what I
18 did. We have what we called injection list that
19 shows what samples I loaded and the type of reagents
20 that I used to load it, and it has my name -- or
21 initials and date that I loaded.

22 Q. Okay. And have you had an opportunity to
23 review that information before you have testified?

24 A. Yes, I have.

25 Q. Did you do anything else with regards to

1 the DNA testing that was done for this particular
2 case?

3 A. No, sir. That was the extent of it.

4 Q. Okay.

5 **MR. LEONARD:** I pass the witness.

6 **THE COURT:** Thank you.

7 **CROSS-EXAMINATION**

8 Q. (**BY MR. SMITH**) Would you agree you're the
9 person who loads the evidence into the plate that
10 goes into the genetic analyzer; is that right?

11 A. In this case it was reference samples; but,
12 yes, I loaded the sample into the plate for the
13 genetic analyzer, yes.

14 Q. So, you loaded the reference samples into
15 the plate; is that right?

16 A. Correct.

17 Q. Now, what about the evidentiary samples?
18 Did you do that, too?

19 A. I did not.

20 Q. Okay. And were -- and you have reviewed
21 the files; is that right?

22 A. I have reviewed my portion of the file.

23 Q. Can you tell us if the evidence samples
24 were included with -- within this -- what do you
25 call -- again, what kind of plate is it called?

1 A. For the genetic analyzer?

2 Q. I know, but the plate -- you know, the
3 plate which has the little slots that you put all the
4 particular items of evidence in.

5 A. We call it a 96 well plate. Simply a
6 little small rectangular plate, probably 4 inches by
7 7 inches; and it's got 96 wells in it.

8 Q. Okay. So, what you do is you take the
9 tubes that the sample has been quantified in -- has
10 been placed in, right?

11 A. Actually, when the samples are amplified,
12 they're amplified on a 96 well plate; and I simply
13 take a portion of that amp product and transfer it to
14 another 96.

15 Q. So, you take a pipe -- or a tube, you know,
16 and you take some of that out and then you drop that
17 into a spot on the amplification plate; is that
18 right?

19 A. On the genetic analyzer plate, yes, sir.

20 Q. Genetic analyzer plate.

21 And you do that with each sample that
22 you do; is that right?

23 A. Correct.

24 Q. Now, in this instance, did you do all 96
25 samples?

1 A. No, sir. It was not a full plate. There
2 were a total of 48 samples, so about half of a plate.

3 Q. Okay. Did you -- did this -- did this
4 plate have a reagent blank?

5 A. Yes. At least one, possibly more; but I
6 can tell at least one.

7 Q. Okay. Okay. Do you do any kind of
8 interpretation of what happens with the reagent
9 blank?

10 A. In this case, I did not.

11 Q. Okay. The reagent blank is there to
12 determine whether or not there is
13 cross-contaminations; is that correct?

14 A. It can help determine if there was
15 contamination from sample to sample, potentially, and
16 also if your reagents are contaminated.

17 Q. Okay. And, basically, the purpose of the
18 reagent blank is it's supposed to come back showing a
19 value of zero; is that right?

20 A. We -- not necessarily a value of zero.

21 Q. Okay. Now, based -- let's kind of talk a
22 little bit about the genetic analyzer just for a
23 little bit so we can give the jury an idea on how it
24 works.

25 A. Sure.

1 Q. Basically, you load the plate into the
2 genetic analyzer; is that right?

3 A. Correct.

4 Q. And it takes that particular DNA out of
5 those tubes and then analyzes it; is that correct?

6 A. The DNA is injected into the instrument
7 through --

8 Q. It's basically the same thing as a gas
9 chromatograph; is that right?

10 A. It's similar. It's not a direct transfer
11 of liquid into the capillary, rather the ions -- the
12 kinetic injection so the DNA in the liquid, liquid is
13 not transferred to the instrument, but rather the
14 fragment, the charged particles, which would be your
15 DNA, is injected into the capillary of the instrument
16 and each sample in its own capillary. And then when
17 that field is amplified, the DNA will partially
18 migrate because of that electrical force.

19 Q. Okay. So, it doesn't consume anything; is
20 that right?

21 A. Correct.

22 Q. Now, these tubes have to be sterilized; is
23 that right?

24 A. We do purchase plastics that are DNA free.
25 We also take measures in the lab to -- like with

1 tubes, we autoclave them as a secondary precaution to
2 make sure they are free of DNA. With plates, we
3 can't really autoclave them because plastic might
4 melt, but we would radiate them with UV to help
5 ensure that there is no DNA in that plate.

6 Q. Basically what you do is you replace -- you
7 use new tubes each time you use this particular
8 machine; is that right?

9 A. Yes. We would use -- never reuse a plate
10 in post-amp.

11 Q. Which basically means use a plate only
12 once?

13 A. Correct.

14 Q. Okay. Now, you -- this machine has to be
15 calibrated; is that right?

16 A. The machine is serviced; and we do perform
17 calibrations and regular maintenance on it, yes.

18 Q. And was it working properly when this
19 particular test was done?

20 A. It would appear so, yes.

21 Q. Okay. You have no -- the limit of your
22 role is -- in this particular case was just loading
23 into the genetic analyzer; is that right?

24 A. That's correct.

25 Q. You do not know what the results were; is

1 that correct?

2 A. I have heard bits and pieces about this
3 case, but not directly.

4 Q. Okay. You have not -- you did not have
5 any -- you did not have any role in the analysis of
6 the end result; is that correct?

7 A. That's correct.

8 Q. Okay. Let's talk a little bit about what
9 PCR means.

10 A. Sure.

11 Q. Okay. PCR stands for polymerase chain
12 reaction; is that correct?

13 A. Correct.

14 Q. That is a process -- that is the
15 amplification process; is that correct?

16 A. Correct.

17 Q. A lot of people say that the amplification
18 process is like running the DNA through a copying
19 machine a bunch of times; is that right?

20 A. I have heard that analogy, yes.

21 Q. That's -- what's better is to compare it to
22 a virus, how a virus multiplies; is that correct?

23 A. I like that analogy better.

24 Q. Basically, it expands expedientially; is
25 that right?

1 Honor.

2 **THE COURT:** Thank you.

3 Redirect?

4 **MR. LEONARD:** Nothing further from
5 this witness.

6 **THE COURT:** Is this witness excused?

7 **MR. SMITH:** She may be released, Your
8 Honor.

9 **MR. LEONARD:** This witness is excused.

10 **THE COURT:** Thank you so much.

11 **THE WITNESS:** Thank you.

12 **THE COURT:** You're free to go.

13 *(Witness released)*

14 **THE COURT:** Thank you. We will take
15 an afternoon recess until about 3:15, a little
16 shorter than usual. Okay. Thank you.

17 All rise, please, for the jury.

18 *(Jury released)*

19 *(Recess taken)*

20 *(Jury enters the courtroom)*

21 **THE COURT:** Thank you. Please have a
22 seat.

23 Your next witness, Mr. Leonard?

24 **MR. LEONARD:** Yes, Judge. The State
25 calls Priscilla Hill.

1 **THE COURT:** Thank you.

2 **THE BAILIFF:** Judge, this witness has
3 not been sworn.

4 **THE COURT:** Thank you. Come up this
5 way, please. If you would face the jury, I will give
6 you the oath.

7 **(Witness Duly Sworn)**

8 **THE COURT:** Thank you very much. You
9 may have a seat.

10 You may begin.

11 **MR. LEONARD:** Thank you, Judge.

12 **PRISCILLA HILL,**

13 having been first duly sworn, testified as follows:

14 **DIRECT EXAMINATION**

15 **Q.** **(BY MR. LEONARD)** Good afternoon, Ms. Hill.

16 A. Good afternoon.

17 **Q.** Would you please introduce yourself to the
18 jury?

19 A. Hi. My name is Priscilla Hill, and I work
20 for the Houston Police Department crime laboratory.

21 **Q.** How long have you been working for the
22 Houston Police Department crime lab?

23 A. Approximately seven and a half years.

24 **Q.** And what do you do there?

25 A. I'm a DNA analyst.