1	RECEIVED IUDGES MAIL ROOM
2	-4 APR 2016 14 00 2016 APR -4 PM 2: 17,
3	KING COUNTY
4	SULEVIUS CODI
5	
6	SUDEDIOD COUDT OF WASHINGTON FOD KING COUNTY
7	STATE OF WASHINGTON
8) Disintiff) No. 10.1.00274.5 SEA
9	Plainulli,) No. 10-1-09274-5 SEA
10	VS.)) STATE'S RESPONSE TO DEFENSE) MOTION TO COMPEN
11	MOTION TO COMPEL) TRUEALLELE SOURCE CODE
12	Defendant.)
13	
14	
15	I. INTRODUCTION
16	The issue before this Court is whether Dr. Mark Perlin and his company, Cybergenetics,
17	must turn over the source code for his product, TrueAllele Casework, under the rules governing
18	discovery in criminal cases. The short answer is no. The source code for TrueAllele is 170,000
19	lines of computer text that is unreadable to most individuals, including the defense experts (they
20	would need additional experts to read and understand the code). But more importantly, the
21	reliability of TrueAllele is established and can be evaluated through validation testing without
22	any reference to the underlying source code. Other than the defendant's paid experts,
23	independent scientists working in the field agree that review of the source code is unnecessary.
24	
	STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 1 BANGED AND A COMPENSE TO DEFENSE MOTION TO COMPEL - 1 BANGED A COMPANY OF THE COMPANY. THE COMPANY OF THE COMPANY. THE COMPANY OF THE COMPANY OF THE COMPANY OF THE COMPANY OF THE COMPANY. THE COMPANY. THE COMPANY OF THE COMPANY. THE COMPANY OF THE COMPANY. THE COM

AND N

and the second

Defense attorneys across the country have made identical arguments for disclosure of TrueAllele's source code, and courts have repeatedly denied those motions. To date, Dr. Perlin's source code has not been disclosed, including to the State. Because the defendant's motion fails to establish that the defendant is legally entitled to the source code, this Court should deny the motion.

II. RELEVANT FACTS

A. Basic Facts About The Crime

The defense devotes significant sections of their brief discussing facts that have nothing to do with whether the State's expert, Dr. Mark Perlin, should disclose the source code for TrueAllele. Rather, their brief appears intended to sway this Court into considering various facts surrounding an additional suspect, Cameron Johnson. Rather than recount the history of the complex investigation, the many circumstantial leads, and the various evidentiary steps that led to charging the defendant with this crime, the State briefly discusses the facts of this case and then addresses the forensic evidence relevant to the motion for the source code.

Arpana Jinaga was viciously murdered by Emanuel Fair. The killing occurred after a
Halloween party at Ms. Jinaga's apartment complex. Ms. Jinaga's friends last saw her around
3:00 AM as she headed alone back up to her apartment unit. Around that same time, the
defendant was at the apartment complex, spending time with Cameron Johnson, who lived next
to Ms. Jinaga. According to both men, they spent time together in Johnson's apartment and in
Johnson's car.

The evidence will show sometime later that night the defendant entered Ms. Jinaga's apartment and attacked her. Using a roll of duct tape, he gagged Ms. Jinaga. He then raped her,

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 2

beat her, strangled her, and left her body nude on her bedroom floor. The defendant spent extensive time after the murder cleaning the scene, attempting to burn sheets, covering areas with bleach, and coating Ms. Jinaga's body in motor oil. These extensive cleanup efforts were consistent with the behavior of a man who had past experience where DNA evidence had incriminated him and who knew that the police already had a sample of his DNA.¹

Several days later, on the day Ms. Jinaga's body was discovered, the defendant was still at the apartment complex. He hid from the police, had a friend lie about his whereabouts and left that night. (There was an outstanding arrest warrant for him in a Failure to Register as A Sex Offender case). When the police finally learned of the defendant's identity and tracked him down for an interview, he gave a false account of his activity on the night of the murder.

B. The DNA Evidence

This case was solved by forensic evidence. However, some of the forensic evidence was complicated by mixtures, and by degradation of the forensic evidence caused by the efforts made by the defendant to leave no trace behind.

There were two locations where evidence was collected, and then subsequently forensically tested, which were critical to this case: Ms. Jinaga's apartment, and the dumpster in the parking lot adjacent to the Ms. Jinaga's apartment. In the dumpster, the police found a plastic bag that contained, among other things Ms. Jinaga's bathrobe with her blood on it, and an empty oil can.

22

24

In 2004, the police investigated Fair for the rape of a 15-year-old girl. When they interviewed Fair, he initially denied having sexual intercourse with the victim. After detectives explained DNA evidence to him and told him that DNA evidence was being collected from the victim, he admitted that he had sex with her. A DNA sample was then obtained from Fair and his DNA profile was consistent with a mixed profile detected on a swab taken from the victim. Fair later pled guilty to two counts of third-degree rape of a child.

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 3

The State requested forensic analysis of evidentiary items from the Washington State Patrol Crime Lab, as well as Bode Cellmark Forensics and Sorenson Forensics. The defendant's

DNA was found on the following items:

4	Front neck swab of Jinaga	Sorenson Forensics: Partia (1 in 3,803).	l Y-STR profile. Fair included
5	Tissue from side of bed	WSPCL: Single source ma trillion).	le match to Fair (1 in 550
6	Red robe of Jinaga (Robe 4)	WSPCL: Mixed profile. 12 Jinaga and Fair than Jinaga	20 times more likely to be a and an unknown individual. ²
8		Cybergenetics: Match betw billion times more probabl an unrelated African Amer	veen robe and Fair is 3.89 e than a coincidental match to rican male.
9 10	Red robe of Jinaga (Robe 6)	WSPCL: Mixed profile. 1 Jinaga and Fair than Jinaga	,000 times more likely to be a and an unrelated individual.
11		Bode:Y-STR tests obtaine cannot be excluded (1 in 4	d a complete profile. Fair 004).
12 13		Cybergenetics: Match betw million times more probab	veen robe and Fair is 56.8 le than a coincidental match to
14	Roll of black duct tape	WSPCL: End of tape is m times more likely that the	ixed profile. It is 320 billion DNA profile is a mixture of
15		Jinaga and Fair than Jinag individual.	a and an unknown unrelated
16 17		Bode: Partial Y-STR prof (total combined population	ile and Fair cannot be excluded ns of 181 in 4004)
18		Cybergenetics: Match betw trillion times more probab	ween tape end and Fair is 45.7 le than a coincidental match to
19		an unrelated African Ame	rican male.
20	Other items within the c	rime scene were tested and c	etermined to have been touched by
21	others besides the defendant. M	lost notably, Cameron Johns	on's DNA was found on a motor oil
22			
23	² After the results were obtained for the population statistics for mixed profiles	is case in 2009, the Washington S from a statistical method of Rand	tate Patrol Crime lab updated their lom Match Probability to a statistical
24	method of Likelihood Ratios.		Daniel T. Satterberg. Prosecuting Attorne
	STATE'S RESPONSE TO DEP COMPEL - 4	ENSE MOTION TO	W554 King County Courthouse 516 Third Avenue

1

2

3

516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955 bottle that, along with Ms. Jinaga's red robe, was in a plastic bag found in the outside dumpster. The defendant was excluded from this sample, and it was determined to be 120 million times more likely that the DNA on the bottle was a mixture of Jinaga and Johnson, than Jinaga and an unknown unrelated individual. Further, the tape sides from the roll of duct tape were examined using Y-STR analysis. Neither Fair nor Johnson could be excluded (total combined populations of 181 in 4004)³ from that sample. Cameron Johnson continues to be a person of interest in this case.

C. Probabilistic Genotyping and Cybergenetics

In November 2015, the WSP Crime Lab advised that the mixed DNA profiles in this case were appropriate for the probability genotyping analysis done by Cybergenetics and their computer program TrueAllele Casework. Cybergenetics, founded by Dr. Mark Perlin, is a Pennsylvania corporation and the owner of TrueAllele.⁴ Declaration of Mark Perlin ("Perlin decl."), attached as Appendix A, at ¶ 4.⁵ TrueAllele is a probabilistic genotyping computer system that interprets DNA evidence using a statistical model. Id. at ¶ 6. The TrueAllele computer objectively infers genotypes from evidence data, accounting for allele pair uncertainty using probability, and subsequently matches genotypes, comparing evidence with a suspect relative to a population, to express the strength of association using probability. Id. at ¶ 13-14. Probabilistic genotyping is generally accepted in the scientific community as evidenced by the

21

Interestingly, the Y-STR tests gave results at only 3 loci (DYS438, DYS393 and DYS385a/b). Fair and Johnson share the same alleles at those locations and thus they are both included as possible donors. Dr. Perlin's CV is attached as Appendix C.

⁵ There are two declarations from Dr. Perlin. The first declaration, attached as Appendix A, provides background about Cybergenetics, probabilistic genotyping and the discovery and work in this case. The second declaration, 24 Attached as Appendix B, responds to specific assertions and arguments made by the defense and their experts.

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 5

June 15, 2015 SWGDAM Guidelines for Validation of Probabilistic Genotyping Systems.⁶ See Appendix E.

Cybergenetics began developing TrueAllele twenty-two years ago, adding a mixture module seventeen years ago. Id. at \P 17. The casework system underwent many rounds of testing and model refinement over ten years before it was used in criminal casework, with the current version released in 2009. Id. at \P 18. The Innocence Project has used TrueAllele in determining match statistics in their case reviews. Id. at \P 28.

8 TrueAllele has been used in over 500 criminal cases, and accepted in courts in California, 9 Louisiana, Maryland, New York, Ohio, Pennsylvania, South Carolina, Virginia, the United 10 States Eastern District of Virginia, United States Marine Corps, Northern Ireland, and Australia. 11 Id. at ¶¶ 24-25. Over ten crime laboratories have purchased the TrueAllele system for their own 12 in-house use, and 7 labs are on-line with their validated systems. Id. at § 26. Over thirty 13 validation studies have been conducted by Cybergenetics and other groups to establish the 14 reliability of the TrueAllele method and software. Id. at ¶ 35. Seven of these studies have been 15 published in peer-reviewed scientific journals, for both laboratory-generated and casework DNA 16 samples. Id.; see studies attached as Appendices J through P. Source code was not needed or 17 used in any of these studies. Id.

The WSP Crime Lab sent data relating to several mixed profiles to Cybergenetics in November 2015. Cybergenetics issued a final report in December 2015. See Appendix D. After receiving these reports, the defense repeatedly indicated that they were considering asking

21 22

23

24

18

19

20

1

2

3

4

5

6

7

⁶ SWGDAM is the Scientific Working Group on DNA Analysis Methods that consists of approximately 50 scientists representing Federal, State, and Local forensic DNA laboratories in the United State and Canada. This group meets twice a year to discuss topics of interest and develop documents to provide direction to the forensic community.

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 6

the State to send data relating to additional evidence to Cybergenetics for probabilistic

genotyping analysis. Ultimately, the defense never made such a request.

Instead, over the past several months, the defense has made multiple demands for additional discovery from Cybergenetics, including a demand for TrueAllele's source code. The State has forwarded these demands to Cybergenetics. In response, Cybergenetics has provided the State and the defense with over 1,500 pages of materials to include the following:

11		
7	Page Number	Description of Discovery Provided to Defense from
		Cybergenetics and Related to TrueAllele
8	18052-18228	Cybergenetics Case Packet
	18229-18244	TrueAllele – Workflow Introduction
9	18245-18297	TrueAllele - Getting Started
10	18298-18330	TrueAllele – Analyze Module
10	18331-18359	TrueAllele – Data Module
1 1	18360-18398	TrueAllele – Request Module
11	18399-18430	TrueAllele – Review Module
12	18431-18498	TrueAllele – Report Module
12	18499-18532	TrueAllele – Tools Module
12	18533-18589	TrueAllele – Tutorial
	18590-18632	TrueAllele – Database Application Note
14	18633-18661	TrueAllele – Specificity Application Note
1-7	18662-18674	TrueAllele – Likelihood Ratio Calculation Application Note
15	18675-18694	TrueAllele - Casework Separates DNA Mixtures that Share
15		Alleles
16	18695-18718	Australia TrueAllele Validation Report September 2011
	18718-18774	Baltimore Police Department TrueAllele Validation August 4,
17		2015
	18775	TrueAllele Volume Crime Validation Study 25 February 2010
18	18776-18778	Validation Papers and Reports Citations (list of 30) papers and
		reports of validation studies
19	18779-18842	NY State TrueAllele Casework Developmental Validation 2010
	18843-18863	NYSP TrueAllele Validation May 2011
20	18864-18919	Development of Kinship Mixtures and Subsequent Analysis
		Using TrueAllele Casework 2014
21	18920-18921	TrueAllele System 2 and Genotyper/Genescan Peak Heights and
		Orchid UK Data – Orchid 2007
22	18922-18940	TrueAllele Validation on Identifiler Plus Mixture Data 2014
	18941-18947	Scientific Validation of Mixture Interpretation Methods 2006
23	18975-18992	Journal of Forensic Science - Validating TrueAllele DNA
		Mixture Interpretation 2011

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 7

Daniel T. Satterberg, Prosecuting Attorney W554 King County Courthouse 516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955

1

24

11		
1	18993-19001	Journal of Forensic Science – New York State TrueAllele
		Casework Validation Study 2013
2	19002-19013	Journal of Forensic Science - TrueAllele Genotype Identification
2		on DNA Mixtures Containing up to Five Unknown Contributors
5	19014-19027	Journal of Forensic Science - Establishing the Limits of
Λ		TrueAllele Casework – a validation study
7	19028-19116	Phase I – Internal Validation of TrueAllele Genetic Calculator as
5		an Expert Assistant for Reads and Review of Data from
		Reported Sexual Assault Evidence
6	19117-19126	TrueAllele Validation on Minifiler Mixture Data 2014
Ū	19127-19166	NIST Exploring the Capabilities of Mixture Interpretation Using
7	101(7,102(0	IA SORWare 2011
	19167-19269	NS w Phase I Evaluation Report of of Cybergenetics TrueAffele
8	10270 10201	Expert System 2011 NV State True Allele Velidation on DNA Mixtures of Known
	19270-19291	Composition 2013
9	10202 10200	Journal of Forensic Science - Validation of True Allele
	17292-19299	Automated Data Review System 2004
10	19300-19361	NY State Police Crime Laboratory System True Allele Casework
	19500-19501	Validation Addendum 2013
11	19362-19442	NY State Police Crime Lab TrueAllele Casework Validation
10		Addendum 2013
12	19443-19458	An Information Gap in DNA Evidence Interpretation 2009
12	19459-19473	TrueAllele Casework in Virginia DNA Mixture Evidence:
15		Computer and Manual Interpretation in 72 reported Criminal
14		Cases 2014
17	19474-19483	TrueAllele Validation on PowerPlex 16 HS Mixture Data 2014
15	19484-19506	TrueAllele Casework Validation on PowerPlex 21 Mixture Data
		2014
16	19507	Further Exploration of TrueAllele Casework
	19508-19519	Richmond County Sheriff's Department of Forensic Science
17		Validation Outline
	19520-19531	DNA Mixture Genotyping by probabilistic computer
18		interpretation of binomially-sampled laser captured cell
		populations: Combining quantitative data for greater
19	10522	identification information
	19532	Highly informative DNA Mixture Evidence is often misreported
20	10522 10525	as inconclusive when interpreted using inteshold methods
<u>01</u>	19535-19535	Cychergenetics Analyze Undetes
21	19530-19537	Cybergenetics Analyze Opdates
22	19336-19370	Dr. Mark Perlin Curriculum Vitee
22	1950/1-19589	Innifer Hornvak Curriculum Vitee
22	19590-19594	WSPCI Memo on Outsourcing casework to Cybergenetics
~-2	10507 10605	WSPCL contract with Cybergenetics
-	1939/-19003	w 51 CL contract with Cybergenetics

24

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 8

19739 TrueAllele Discovery Disc dated 2.24.16 19740 Description of discovery materials on Discovery disc 19741-19742 Cybergenetics TrueAllele additional data and discovery of the Discovery disc materials Cybergenetics Pretrial Admissibility Package (providing all 19743-19745 documents to be used at trial for admissibility of TrueAllele) TrueAllele Validation Reports and Papers List 19746-19749 Cybergenetics TrueAllele Casework Procedure and Organization 19750 Cybergenetics TrueAllele Outline of Tutorials and 19751 recommended order to watch Tutorials 19752 Cybergenetics TrueAllele Casework Vuier Outline Cybergenetics TrueAllele Casework Case Files Outline 19753-19754 TrueAllele Methods: Statistical Model with the Mathematical 19755-19765 formula for TrueAllele Three Licenses for free access to TrueAllele active for 96 days 19921-19923 from the date of generation (March 18, 2016)

Cybergenetics also provided a DVD that, as defense acknowledged at a recent hearing, contains an enormous amount of material about TrueAllele. Perlin decl. at ¶ 93. Of note from the above list, Dr. Perlin has disclosed all the documents that would be useful for pretrial hearings on the admissibility of TrueAllele evidence: numerus validation studies, five articles on TrueAllele published in the Journal of Forensic Science, all of the manuals describing the TrueAllele system, and the mathematical formula behind the TrueAllele program. The volume of material that Dr. Perlin has willingly provided to the State and the defense is exceedingly useful in completely understanding the tests that TrueAllele has undergone in validation. Dr. Perlin has indicated to the State that he will not disclose the source code because it is

a trade secret. The State, in turn, informed the defense of this position.

The issue raised by the defense motion for source code is not new to Cybergenetics. It has been raised in multiple courts throughout the country. The same defense experts have been used by other defendants as part of a motion to demand the source code. To date, Cybergenetics

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 9

Daniel T. Satterberg, Prosecuting Attorney W554 King County Courthouse 516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955

24

1

2

1			
1	has not been required to disclose the source code. See Opinion and orders, attached as		
2	Appendices G, H and I; Perlin decl. at ¶ 98.		
3			
4	III. ARGUMENT		
5	A. The Relevant Law Governing The Defendant's Discovery Demand.		
6	The defendant seeks to compel the State and Dr. Mark Perlin to produce the TrueAllele		
7	Casework source code. This source code is not in the State's possession. ⁷ When a defendant		
8	seeks discovery beyond which the prosecutor is specifically required to disclose under the		
. 9	discovery rules, the defendant's request must meet the requirements of CrR 4.7(e)(1). State v.		
10	Norby, 122 Wn.2d 258, 266, 858 P.2d 210 (1993). That rule provides:		
11 12	Upon a showing of materiality to the preparation of the defense, and if the request is reasonable, the court in its discretion may require disclosure to the defendant of the relevant material and information not covered by sections (a), (c) and (d).		
13	CrR 4.7(e)(1).		
14	A defendant's discovery request under this rule must meet two threshold requirements		
15	before the court may exercise its discretion in granting the request: (1) the information sought		
16	must be material, and (2) the discovery request must be reasonable. Norby, 122 Wn.2d at 266.		
17	If these two requirements are met, the trial court has the discretion to condition or deny the		
18	disclosure request if it finds the disclosure's usefulness is outweighed by a substantial risk of		
19	harm or unnecessary annoyance to any person. CrR 4.7(e)(2).		
20	With respect to the materiality requirement, "[t]he mere <i>possibility</i> that an item of		
21	undisclosed evidence <i>might</i> have helped the defense does not establish 'materiality' in the		
22			
23	⁷ Should the Court intend to grant the defendant's motion, the proper procedure, given that the source code is not in the State's possession, is to issue a subpoena duces tecum directed to Cybergenetics. <u>Blackwell</u> , 120 Wn.2d at 827-28. Because Cybergenetics is an out-of-state corporation, the defendant would need to seek enforcement of any		
24	out-of-state subpoena through the appropriate statutes and rules. STATE'S RESPONSE TO DEFENSE MOTION TO W554 King County Courthouse		

COMPEL - 10

1	constitutional sense." State v. Blackwell, 120 Wn.2d 822, 828, 845 P.2d 1017 (1993), citing		
2	State v. Mak, 105 Wn.2d 692, 704, 718 P.2d 407, cert. denied, 479 U.S. 995, 107 S.Ct. 599, 93		
3	L.Ed.2d 599 (1986). In <u>Blackwell</u> , the trial court dismissed the case after the State failed to		
. 4	produce personnel records of police officers involved in his case. The Washington Supreme		
5	Court reversed the dismissal and held that the defendant was not entitled to the records.		
6	Defense counsel argued that the service records/personnel files are material		
7	because they <i>could</i> lead to exculpatory evidence of improper police conduct and/or arrests based on race and excessive force that might rebut the officers'		
8	claim of proper police conduct. This reasoning was persuasive to the trial court, which apparently relied on the broad discovery language of CR 26(b) as a basis		
9	for its order. We reject this rationale. <u>See State v. Gonzalez</u> , 110 Wash.2d 738, 744-45, 757 P.2d 925 (1988) (CR 26 is inapplicable to criminal cases).		
10	Defense counsels' broad, unsupported claim that the police officers' personnel		
11	files <i>may</i> lead to material information does not justify automatic disclosure of the documents. [Citations Omitted.]		
12	A defendant must advance some factual predicate which makes it reasonably		
13	likely the requested file will bear information material to his or her defense. A bare assertion that a document "might" bear such fruit is insufficient. Our review		
14	of the record indicates that no such showing of materiality was made in this case.		
15	120 Wn.2d at 828-830.		
16	In this case, the defendant has failed to show that his discovery request seeks material		
17	information, that it is reasonable, and that the usefulness of the information outweighs the harm		
18	that disclosure may cause.		
19			
20	B. The Defendant Has Failed to Show That He Is Entitled to the Source Code.		
21	1. <u>Relevant Caselaw on Discovery Of Source Code Does Not Support The</u> Defendant's Demand.		
22	The defendant asserts that there is little Washington law on the issue of disclosure of		
23	source code, claims that "such disputes occur almost exclusively in federal court," and suggests		
24			
	STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 11Daniel T. Satterberg, Prosecuting Attorney W554 King County Courthouse 516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955		

that the practice in civil patent law is relevant to the issue. Motion to Compel at 36. He provides a declaration from a patent lawyer for the proposition that source code is commonly produced in discovery in patent cases. He then argues it would be absurd to not allow the discovery in a criminal case when it would be allowed in a civil lawsuit.

There are several flaws in this argument. First, this is not a civil patent case, and the broad rules of civil discovery do not apply. The Supreme Court has repeatedly recognized that the criminal discovery rules are not as broad as the civil discovery rules. <u>State v. Gonzalez</u>, 110 Wn.2d 738, 743-44, 757 P.2d 925 (1988). The civil "rule allows civil litigants to engage in broad discovery; that is, they can probe for weaknesses in their opponents' positions without knowing that weaknesses actually exist." <u>Id.</u> Indeed, had <u>Blackwell</u> and <u>Gonzalez</u> been civil cases, those defendants may have been entitled to the discovery they sought. The fact that a computer's source code is produced, subject to stringent protective orders, in civil cases is of little bearing to the criminal discovery issue presented by the defendant's motion.

Second, there is caselaw on the production of source code in criminal cases. Nationwide, the issue has arisen in drunk driving cases where defendants have sought discovery of the breathalyzer's source code. The defendant selectively cites to a few of these cases, but the majority of courts have declined to order the production of the machine's source code.⁸

More directly on point are cases involving TrueAllele. The issue has repeatedly been raised with respect to the TrueAllele source code. The trial and appellate courts have uniformly rejected motions to disclose the TrueAllele source code. <u>See</u> Opinion and orders, attached as Appendices G, H and I; Perlin decl. at ¶ 98. In a recent unpublished opinion, the California

22

23

24

⁸ <u>State v. Bastos</u>, 985 So.2d 37 (Fla.Dist.Ct.App.2008); <u>Commonwealth v. House</u>, 295 S.W.3d 825 (Ky. 2009); <u>People v. Robinson</u>, 860 N.Y.S.2d 159 (N.Y.App.Div. 2008); <u>State v. Marino</u>, 229 N.C. App. 130 (N.C. Ct. App. 2013); <u>City of Fargo v. Levine</u>, 747 N.W.2d 130 (N.D. 2008); <u>Moe v. State</u>, 944 So.2d 1096 (Fla.Dist.Ct.App. 2006). <u>But see State v. Smiley</u>, 689 S.E.2d 94 (Ga.Ct.App. 2009); <u>State v. Underdahl</u>, 767 N.W.2d 677 (Minn. 2009).

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 12

()		
1	Court of Appeals overturned the order of the superior court compelling the disclosure of the	
2	TrueAllele source code. See People v. Superior Court (Chubbs), No. B258569, 2015 WL	
3	139069 (Cal. Ct. App. Jan. 9, 2015), attached as Appendix I.	
4	In several published decisions, courts have rejected claims that the testimony about	
5	TrueAllele should have been excluded because the source code had not been disclosed to the	
6	defense. In State v. Wakefield, 47 Misc. 3d 850, 854-55, 9 N.Y.S.3d 540, 543-44 (N.Y. Sup. Ct.	
7	2015), the court held:	
8 9	The Defendant argues that without that code, no outside scientist can replicate or validate Dr. Perlin's methodology and, therefore, Cybergenetics TrueAllele Casework evidence should not be admissible in this case. However, scientists	
10	can, and have, validated the reliability of Cybergenetics TrueAllele Casework even though the source code underlying the process is not	
11	available to the public. Cybergenetics TrueAllele Casework has undergone 20 unpublished validating studies and 6 published validation studies (People's	
12	of reliable results or determining the extent of reliability for the method or	
13	independent validation studies-Massachusetts, Virginia, and 2 by the New York	
14	Without exception, each of these validation studies found Cybergenetics	
15	the correct person) and specific (the extent to which interpretation identifies the correct person) and specific (the extent to which the interpretation does not	
16	shown to have provided objectivity, achieved greater genotype accuracy, and	
17	to the same question).	
18	9 N.Y.S.3d at 543-44 (emphasis added).	
19	The Pennsylvania Superior Court came to the same conclusion and rejected the argument	
20	that the source code had to be disclosed to allow the evidence:	
21	Foley's third reason for exclusion is misleading because scientists can validate the	
22	process is not available to the public. TrueAllele is proprietary software; it would	
23	not be possible to market TrueAllele if it were available for free. See N.T., Hearing, February 18, 2009, at 54. Nevertheless, TrueAllele has been tested and	
24	validated in peer-reviewed studies. One study used laboratory-generated DNA	
	STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 13 Daniel T. Satterberg, Prosecuting Attorn W554 King County Courthouse 516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955	эу

1 samples and found that quantitative analysis performed by TrueAllele was much more sensitive than qualitative analysis such as that performed by the FBI. See 2 Perlin & Sinelnikov, An Information Gap in DNA Evidence Interpretation, 4 PLoS ONE e8327, at 10 (2009), available at http://dx.doi.org/10.1371/journal. 3 pone.0008327. A recent paper entitled "Validating TrueAllele® DNA Mixture Interpretation" used DNA samples from actual cases and reached similar results. 4 See Perlin et al., Validating TrueAllele® DNA Mixture Interpretation, 56 Journal of Forensic Sciences 1430 (2011). The study "validated the TrueAllele genetic 5 calculator for DNA mixture interpretation" and found that "[w]hen a victim reference was available, the computer was four and a half orders of magnitude 6 more efficacious than human review." Id., at 1444. Both of these papers were published in peer-reviewed journals; thus, their contents were reviewed by other 7 scholars in the field. 8 Commonwealth v. Foley, 38 A.3d 882, 889-90 (Pa. Super. Ct. 2012). 9 The cases cited by the defendant are easily distinguishable. In United States v. Budziak, 10 697 F.3d 1105 (9th Cir. 2012), the Ninth Circuit held that the trial court erred by denying the 11 defendant's motions seeking discovery on the specifications of the FBI's EP2P software or a 12 copy of the program. However, as explained in a subsequent opinion, Budziak expressly did not 13 seek the source code. United States v. Budziak, 612 F. App'x 882, 884 (9th Cir. 2015). 14 State v. Grenning, 169 Wn.2d 47, 234 P.3d 169 (2010), simply stands for the proposition 15 that a defendant, charged with possession of child pornography, is entitled to a mirror image of 16 his own computer's hard drives. The defendant's computer in Grenning was the critical 17 evidence. Like Grenning, defendant Fair has been given access to all the evidence he wishes to 18 review. The TrueAllele program is not evidence, but a forensic program used to analyze 19 evidence. 20 The relevant caselaw does not support the defendant's motion to compel. 21 22 23 24 Daniel T. Satterberg, Prosecuting Attorney STATE'S RESPONSE TO DEFENSE MOTION TO W554 King County Courthouse 516 Third Avenue COMPEL - 14 Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955

2. The Source Code Is Not Material.

2 Like the defendant in Blackwell, the defendant speculates that the source code may 3 contain information material to his defense. He claims that his retained experts have identified 4 "*potential* errors exist in the software" and that "(w) it hout the source code, Dr. Chakraborty, or 5 any expert will be unable to verify the DNA interpretation that TrueAllele claims to conduct." 6 Defense Motion to Compel at 5, 36 (emphasis added). The defense's two paid experts have 7 unsuccessfully made these same claims in prior cases, and, to date, the courts have not found 8 them persuasive. See Order in State v. Shaw, attached as Appendix H; Second Declaration of 9 Mark Perlin ("Second Perlin decl."), attached as Appendix B, at ¶¶ 49, 77. 10 More recently, under direct and repeated questioning of a trial judge, even one of the 11 defense experts, Dr. Chakraborty, ultimately acknowledged that he could validate TrueAllele 12 without the source code if he was given the program and could input his own data. See 13 Transcript at 128-132, Commonwealth v Robinson, No. CC 2013-0777 (October 9, 2015),

attached as Appendix F.⁹ Dr. Chakraborty's concession is consistent with the opinion of
numerous independent scientists, not retained by either party, who opine that the source code is
unnecessary to evaluate TrueAllele. The State has obtained declarations from a variety of DNA
scientists who are familiar with TrueAllele and who all agree that the source code is not required
to determine its validity and reliability.

19

1

20

21

22

23

24

⁹ A review of the transcript reveals that this admission by Dr. Chakraborty was made reluctantly after extensive questioning by the prosecutor and the trial judge. See Transcript at 117-132, attached as Appendix F. He indicated a preference for reviewing the source code over conducting a validation test. He testified that it would take 2 to 3 months for him to use the software and run the tests, that he would have to "resign" from his school obligations and that he did not have time to do it. Id. at 134-141. In contrast, he represented that he could have a computer expert review the source code in one month. Id. Later, during re-direct examination by defense counsel, Dr. Chakraborty attempted to retract his earlier testimony and confusingly stated that if he did his own validation study, he would still want "knowledge of at least partially of the source code." Id. at 164-65.

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 15

Dr. Michael Gorin, Professor of Ophthalmology and Human Genetics at UCLA, has used TrueAllele to deconvolve microsatellite genotyping data for molecular genetic studies of agerelated macular degeneration. Declaration of Dr. Michael Gorin, attached as Appendix R, at ¶ 5. He opines that:

I do not believe an examination of the source code is necessary to make such a determination [of reliability] based upon my use of genotyping and molecular genotyping analysis software for complex genetic disorders. This experience reflects a 30 year research program that has included the development and software implementation of numerous analytical tools for complex and large-scale genetic datasets. In no instance, has a new method or software been assessed by scientific experts based on direct comparison or investigation of the source code.

Id. at ¶ 6.

1

2

3

4

5

6

7

8

9

10 Greg Hampikian is a professor in the department of Biology at Boise State University and 11 the Director of the Idaho Innocence Project. Declaration of Greg Hampikian, attached at 12 Appendix S. His research focuses on DNA analysis, including DNA database and population 13 studies, forensic casework analysis, and forensic DNA technology development. Id. at ¶ 3. He 14 is familiar with TrueAllele mixtures and used it in two cases involving claims of wrongful 15 conviction. Id. at ¶ 7. In his opinion, the source code is not necessary in order to determine 16 TrueAllele's reliability and validity. Id. at ¶¶ 8-9. 17 Thomas Hebert, the DNA technical leader for the Baltimore City Police, explains: 18 In my opinion, I do not believe the source code is necessary for determining the reliability of TrueAllele because source code is not normally used in the 19 validation of software programs for forensic use. The underlying principles are well known and can be understood without the source code. With that 20 understanding, the program can be tested. 21 A proper validation will test samples with known results. These results can then be compared to results generated by the program. A wide variety of samples 22 should be used and they should be similar to real casework type samples. This will show the limitations of the program which is the goal of the validation. 23 24 Daniel T. Satterberg, Prosecuting Attorney STATE'S RESPONSE TO DEFENSE MOTION TO W554 King County Courthouse

COMPEL - 16

1	I am not aware of any forensic DNA labs that require source code of computer programs to complete a validation.
2	Declaration of Thomas Hebert at ¶¶ 7-9, attached as Appendix T.
3	Joanne Squelia has been involved in in forensic DNA research and development for 28
4	Scame She is familian with True Allala and animas
5	years. She is familiar with frueAffele and opines.
6	We put the [TrueAllele] system through rigorous testing and did not find any need to know the source code. We tested many types of mixtures, both known and
7	unknown, and were satisfied with the results. It took many months of testing to gain a level of familiarity and confidence in the system. We were able to
8	understand what evidence was input and got accustomed to the expected output. As data became more uncertain (low level template DNA and stochastic effects)
9	the resulting LR decreased accordingly. Real and mock casework scenarios, along with contrived mixtures, all gave expected results.
10	I do not think knowledge of the source code was needed as an end user because
11	the data input was supported by the output. Validation of the system for forensic applications can be accomplished by knowledgeable and experienced forensic
12	scientists who are not necessarily mathematicians or statisticians
13	In the field of forensics, we evaluate and validate many systems by testing our sample types for our applications without specific expertise in the underlying
14	robotics, sizing software, PCR reagents/primer sequences, capillary electrophoresis/polymer composition).
15	Declaration of Joanne Squeglia attached as Annendix V at II-13
16	
17	Dr. Kevin Miller, currently the Forensic Scientific Leader at Hamilton Robotics, explains
18	that the Kern Regional Crime Laboratory, under his direction, purchased the TrueAllele software
19	and performed validation studies. Declaration of Dr. Kevin Miller, attached as Appendix U, at ¶
20	6. The lab's work was fully vetted thoroughly, accepted by the scientific community, and
21	published in the Journal of Forensic Sciences. Id. Dr. Miller agrees that the source code is not
21	needed to determine whether the program produces reliable and valid results. Id. at $\P 11$.
22	John Donahue, the DNA Technical Leader at the Beaufort County Sheriff's Office
23	Forensic Services Laboratory, South Carolina, performed a recent validation study of TrueAllele.
24	STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 17 Daniel T. Satterberg, Prosecuting Attorner US54 King County Courthouse 516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955

н

Declaration of John Donahue, attached as Appendix Q. In his declaration, he explains the study in detail and opines that the source code was not necessary to validate the software. <u>Id.</u> at ¶¶ 11-13. <u>See also</u> letter dated April 4, 2016 by Susan Greenspoon, attached as Appendix X (describing how the Virginia Department of Forensic Science validated TrueAllele without need for the source code).

Consistent with these opinions, Dr. Gary Shutler, the DNA Technical Leader for the WSP
Crime Lab, has surveyed much of the literature on probabilistic genotyping and has not seen a
validation plan that included an analysis of the source code as a requirement. Declaration of Dr.
Gary Shutler, attached as Appendix W, at ¶ 8. He further observes that the Guidelines for
Validation of Probabilistic Genotyping Systems, approved by SWGDAM "recommend a
performance based approach for validating probabilistic software and do not mention anything
about looking at the source code of the program." Id. at ¶ 10.

With respect to TrueAllele, there have been 30 validation studies, seven of which have been published in peer-reviewed scientific journals, for both laboratory-generated DNA samples. Perlin decl. at ¶ 35. In none of these studies did the scientist believe they needed access to the source code. Id. As recognized by both Dr. Chakraborty and the above independent scientists, TrueAllele can be validated by testing samples. Cybergenetics allows the defense expert to use TrueAllele Cloud at no charge where they can conduct their own testing. Id. at ¶ 95. Using this procedure, the source code is not needed for assessing TrueAllele reliability, because they can test the executable program on actual data. Id.

Citing Dr. Krane, the defense argues that TrueAllele is a "black box" and that the source
 code is necessary to establish how the software works. TrueAllele does not operate as a black
 box. The mathematical concepts upon which TrueAllele is based have been published and have

24

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 18

1 been made available for validation. Perlin decl. at ¶ 96. These publications include scientific 2 papers (1995, 2001, 2009, and 2011) and patent specifications (2000 and 2001). Id. This 3 information discloses TrueAllele's genotype modeling mechanism, and enables others to 4 understand or replicate the basic method. Id. Because the basic principles underlying the 5 operation of the TrueAllele system have been published, it is inaccurate to describe TrueAllele as 6 a "black box" system. 7 Moreover, Dr. Krane is simply wrong in asserting the correct answer cannot be known. 8 As John Donahue explains in his declaration: 9 I have reviewed the Declaration of Dan Krane in which he opines that "software (like TrueAllele) that produces likelihood ratios (LRs) cannot be validated with 10 only black box testing because the correct answer cannot be known (and therefore cannot be compared to the results generated by the program). I disagree with that 11 opinion because we tested all aspects of the TrueAllele program against known samples and known mixtures and found that TrueAllele produced the expected 12 results. In the validation study referenced above we knew the DNA profile of every single contributor to every sample that we produced. We also predicted the 13 approximate mixture weight/ratio of each contributor to every mixture, and on those occasions when TrueAllele calculated a different mixture weight, we re-14 examined the data and found that TrueAllele's calculation was representative of the data and that our predicted mixture weights were wrong. 15 In a validation study one can know what the correct contributor genotypes are and 16 one can make an accurate estimate of what the mixture weight should be based upon the data. Our results made us more confident in TrueAllele because not only 17 did the TrueAllele results correlate to most of our predictions, TrueAllele also identified for us those samples where the data showed us that our original 18 predictions were incorrect. 19 Donahue decl. at ¶¶ 11-12. 20 Dr. Perlin's notes that "Krane's logic leads us to the wrong idea that match statistics are 21 unknowable, and can never be validated. This flies in the face of over 30 TrueAllele validation 22 studies, and the 2015 SWGDAM guidelines that describe validation requirements." Second 23 Perlin decl. at ¶ 84. Dr. Perlin confirms that TrueAllele has been validated on samples of known 24 Daniel T. Satterberg, Prosecuting Attorney STATE'S RESPONSE TO DEFENSE MOTION TO W554 King County Courthouse 516 Third Avenue COMPEL - 19 Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955

composition where thee genotypes in these data are known and can be compared to the TrueAllele separated genotypes to see if TrueAllele was giving accurate answers. <u>Id.</u> at ¶ 85.

3 The defense cites to two studies, which he claims cast doubts about TrueAllele. Nothing 4 in either study justifies the discovery of the source code. In neither study did the authors request 5 or need the source code to evaluate TrueAllele. Second Perlin decl. at ¶¶ 28, 41. With respect to 6 the New South Wales study, the authors ultimately concluded that TrueAllele "provided an 7 enhanced capacity for DNA interpretation" and their crime laboratory purchased the product and 8 continued to use it. See Appendix Q to Defense Motion to Compel at p. 69; Second Perlin decl. 9 at ¶ 22-34. The California DOJ material is simply a government agency report, indicating why 10 it choose to purchase a rival product, STRmix rather than TrueAllele. As Dr. Perlin reports, the 11 CalDOJ scientist using the TrueAllele program failed to complete the Cybergentics TrueAllele 12 operator course, crippled the program by changing key parameters and did not consult with 13 Cybergenetics for assistance. Second Perlin decl. at ¶¶ 39-40.¹⁰

14 Finally, the defense claims that the Cybergenetics report in this case raises further 15 concerns. Dr. Perlin addresses these "concerns" in his declaration. These "concerns" appear to 16 stem from either a misunderstanding of how TrueAllele works or a misreading of the information 17 in the report. Second Perlin decl. at ¶ 17-21. Dr. Perlin can clearly and cogently explain his 18 system, the data, and the conclusions drawn from his program. Others, if they choose to do so, . 19 can misinterpret or misconstrue this data in a manner favorable to their desired outcome. In this 20 case, the defense is obfuscating the results to further a false argument. Finally, revealing the 21 source code would do nothing to answer the questions they raise.

23

24

22

1

2

 1^{0} Dr. Perlin's second declaration provides additional information about these two studies. Second Perlin decl. at ¶¶ 22-47.

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 20

The actual facts about TrueAllele, the opinion of independent experts, and the relevant criminal caselaw all support the proposition that the source code is not material evidence that must be produced.

The Demand To Produce Source Code Is Not Reasonable and the Possible 3. Harm Outweighs Any Usefulness.

Another basis for denying the defendant's motion under CrR4.7(e)(2) is that the discovery requested is not reasonable and that disclosure of the source code is outweighed by a substantial risk of harm or unnecessary annoyance. The request is not reasonable in light of the other methods available to evaluate the program and the enormous amount of material that Cybergenetics has already provided to the defense.

As defense counsel has acknowledged in prior court hearings, Cybergenetics has provided the defense with an enormous amount of material about TrueAllele. In addition, Cybergenetics provides opposing experts the opportunity to review the TrueAllele process, examine results, and ask questions. Perlin decl. at \P 90. This review can be done in Cybergenetics's Pittsburgh office, or through an Internet Skype-like meeting.¹¹ Id. In this case, Cybergenetics has gone further and even provided free licenses to the defense experts to use the program. Moreover, the defense experts are free to use TrueAllele Cloud to conduct their own testing. Id. at ¶ 95.

There is the potential for actual harm if the source code is disclosed. Cybergenetics has invested millions of dollars over two decades to develop the TrueAllele system. Perlin decl. at

24

Dr. Perlin has made this offer in prior cases, and the defendant's experts have never taken him up on it.

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 21

 \P 68. TrueAllele is a trade secret, and has never been disclosed to the public.¹² Id. at \P 69. It is not even distributed to employees of Cybergenetics, and copies are not provided to individuals, businesses or government agencies that use or license the software. Id. Cybergenetics operates in a highly competitive commercial environment, and at least five other groups have developed similar software. Id. at $\P\P$ 71-72. Disclosure of the TrueAllele source code would cause irreparable harm to the company, enabling competitors to easily copy the company's proprietary products and services. Id. at \P 74.

8 The defense argues that a protective order would provide sufficient against the disclosure of the source code.¹³ As Dr. Perlin notes, protective orders are violated.¹⁴ Perlin decl. at ¶ 83. 9 10 As a matter of logic, if the defendant in this case is entitled to the TrueAllele source code, then 11 every defendant in cases involving TrueAllele is also entitled to the source code. If the 12 TrueAllele source code is disclosed hundreds of times, the danger that it will be leaked certainly 13 rises. If a leak occurs, it is unlikely that Dr. Perlin would be able to establish who leaked the 14 source code, or recover any damages for any financial loss. The risk of harm outweighs the 15 usefulness of the source code.

Finally, as a practical matter, defense has not explained who and how they would
examine the source code. TrueAllele is written in MATLAB (for MATrix LABoratory), a high

19

20

1

2

3

4

5

6

7

¹² Under Washington law, "trade secret" is defined as "a formula, pattern, compilation, program, device, method, technique, or process that (a) Derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; and(b) Is the subject of efforts that are reasonable under the circumstances to maintain its secrecy." RCW 19.108.010(4).

 ¹⁴ For examples of cases where protective orders regarding source code were violated, see <u>Bradford Techs., Inc. v.</u> <u>NCV Software.com</u>, No. C 11-04621 EDL, 2013 WL 75772 (N.D. Cal. Jan. 4, 2013) <u>MobileMedia Ideas LLC v.</u>
 Apple Inc., No. CA 10-258-SLR/MPT, 2012 WL 5379056, (D. Del. Oct. 31, 2012).

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 22

¹⁸

 ¹³ The examples of protective orders, attached to by the defendant's patent lawyer's declaration, confirm that the privacy and protections afforded to source code are extraordinary. They are not the comparatively simple protective orders used in King County criminal cases. These civil protective orders limit the opposing party's access to the
 source code. The source code is placed on a non-networked computer in a locked room. Those having access are limited in what they can bring in (no cameras, computer, USB drives) and are restricted from copying the source code.

1	level mathematical language for programming and visualizing numerical algorithms made by the
2	MathWorks (Natick, MA). Perlin decl. at ¶ 49. TrueAllele has about 170,000 lines of computer
3	source code, written by multiple programmers over two decades. Id. at \P 63. The computer code
4	is dense mathematical text, and it can take hours for a person to read through even a few dozen
5	lines of MATLAB to decipher what it does. <u>Id.</u> Accordingly, it could take a very long period of
6	time to read through the source code. Neither defense expert indicates they intend to perform
7	this task. In his declaration, Dr. Chakraborty indicated that he will need to review the source
8	code "with the aid of associates with necessary computer background." Chakraborty decl. at 7.
9	And in his prior testimony, he stated he would hire an unnamed computer expert to review the
10	code. In his declaration, Dr. Krane does not claim to have any experience or expertise in
11	reviewing computer code. Apparently, the defense is anticipating that they would be permitted a
12	"team" of experts to review and examine the TrueAllele source code and all would abide by a
13	protective order for non-disclosure. Such a request has never been granted.
14	
15	C. The Defendant's Confrontation Rights Are Not Implicated.
16	The defendant argues that he is entitled to the source code based upon his Sixth
17	Amendment right to confrontation. He reasons that TrueAllele is the witness to be confronted
18	and Dr. Perlin is the mouthpiece. The defendant cites no cases for the notion a defendant is
19	entitled to discovery of computer source code as part of his right to confrontation. Courts in
20	other jurisdictions have rejected similar claims and this Court should do so as well.
21	The United States Supreme Court has described the class of testimonial statements that
22	are subject to the Confrontation Clause as follows:
23	Various formulations of this core class of testimonial statements exist: ex parte in-

court testimony or its functional equivalent-that is, material such as affidavits,

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 23

24

custodial examinations, prior testimony that the defendant was unable to crossexamine, or similar pretrial statements that declarants would reasonably expect to be used prosecutorially; extrajudicial statements contained in formalized testimonial materials, such as affidavits, depositions, prior testimony, or confessions; statements that were made under circumstances which would lead an objective witness reasonably to believe that the statement would be available for use at a later trial.

Crawford v. Washington, 541 U.S. 36, 51-52, 124 S. Ct. 1354, 1361, 158 L. Ed. 2d 177 (2004) (citations and quotations omitted). All of these examples involve statements made by human beings.

The State has located a number of cases where defendants have made similar arguments as the defendant: that they are entitled to discovery of a computer program under the right of confrontation. These claims have been rejected.

In <u>Taylor v. State</u>, 264 S.W.3d 914 (Tex. App. 2008), the defendant claimed that the trial court violated his right to confrontation when it refused to require production of the computer and computer program for an Intoxilyzer machine. Rejecting this argument, the court held, "neither the computer nor the computer program is a witness that could be called to testify. Therefore, we hold that Appellant's right to confrontation is not implicated by their absence." <u>Id.</u> at 917 (footnote omitted).

Similarly, in <u>City of Fargo v. Levine</u>, 747 N.W.2d 130 (N.D. 2008), the defendant argued that he was entitled to the source code of the Intoxilyzer machine under his Sixth Amendment right to confrontation. The North Dakota Supreme Court rejected this argument, observing that the machine could not be cross-examined directly and that the defendant had a right to crossexamine the State Toxicologist, who had been designated to speak to the accuracy of the test results. Id. at 135.

23

24

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 24

Again, in State v. Lindner, 227 Ariz. 69, 72, 252 P.3d 1033, 1036 (Ariz. Ct. App. 2010), the court rejected an argument that the statute governing admissibility of a breath test was unconstitutional because it did not provide the right to discover the Intoxilyzer source code before trial.

In Torres v. State, 109 S.W.3d 602, 606 (Tex. App. 2003), the defendant claimed his right to confrontation was denied because he could not cross-examine the gas chromatograph machine's computer program that was used to analyze his blood. Rejecting this argument, the court held, "[c]ontrary to Appellant's characterization of the computer program as a 'witness,' the program which ran the gas chromatograph machine was not a person and could not be called to testify." Id. at 606.

The defendant's right to confrontation does not entitle him to the source code.

IV. CONCLUSION

Finally, the State believes that a lengthy hearing on this issue is unnecessary at this time. At the last hearing, defense indicated they anticipated a multi-day evidentiary hearing with live testimony. The defense has also clearly stated that they intend to challenge the admissibility of the TrueAllele analysis and work done by the Washington State Patrol Crime Lab in a Frye hearing. Presumably, this would consist of another multi-day hearing with the same experts and the court's ruling on the Frye hearing could be controlling of its decision on whether to order disclosure of the source code. Based on the briefings provided to this court which include, from the defense, hundreds of pages of appendices, the State would propose that this court has ample material to decide the narrow issue of disclosure of source code on the briefing presented by the parties and oral argument.

24

STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 25

1	For all the foregoing reasons, the Court should deny the motion to compel.
2	
3	Dated: April 4, 2016
4	DANIEL T. SATTERBERG King County Prosecuting Attorney
5	The G. Shewet
6	By: $\frac{OVU}{\text{Erin E. Ehlert, WSBA #26340}}$
7	Brian M. McDonald, #19986 Senior Deputy Prosecuting Attorney
8	King County Prosecuting Attorney's Office
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
10	
20	
20	
21	
22	
23	
24	STATE'S RESPONSE TO DEFENSE MOTION TO COMPEL - 26 Daniel T. Satterberg, Prosecuting Attorney W554 King County Courthouse 516 Third Avenue Seattle, Washington 98104 (206) 296-9000, FAX (206) 296-0955

1

. . .