What the Supreme Court Hasn't Told You About DNA Databases

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2 August 2013 (A version of this paper will appear in *Profiles in DNA*) © 2013 DH Kaye

Introduction

According to four U.S. Supreme Court justices, the Court just paved the way for the government to collect your DNA and put its CODIS profile in the national database. This precedent-shattering and "scary"¹ case began when police in Maryland arrested Alonzo King for menacing a group of people with a shotgun. Following the arrest, they took his picture, recorded his fingerprints—and swabbed the inside of his cheeks.² When checked against Maryland's DNA database, his DNA profile led to the discovery that six years earlier, King had held a gun to the head of a 53-year-old woman and raped her. Before the DNA match, the police had no reason to suspect King of that crime. Lacking probable cause—or even reasonable suspicion—they did not rely on a judicial order to swab his cheek. They relied on a state law that mandated collection of DNA from all people charged with a crime of violence or burglary.³

King appealed the resulting rape conviction. He argued that the DNA collection deprived him of the right, guaranteed by the Fourth Amendment to the Constitution, to be free from unreasonable searches or seizures. Maryland's highest court agreed with him. It held that except in the rarest of circumstances where a suspect's true identity could not be established by conventional methods,⁴ forcing an arrestee to submit to DNA sampling was unconstitutional.

The state petitioned the Supreme Court for review.⁵ Over and over, the court had denied requests from convicted offenders and, more recently, from mere arrestees to address the legality of state and federal laws mandating DNA routine collection of their DNA. But this case was different. Never before had a supreme court or a federal appellate court deemed a DNA database law unconstitutional. Even before the Court met to consider whether it would review the case, Chief Justice Roberts stayed the Maryland judgment. His

¹ Maryland v. King, 133 S. Ct. 1958, 1989 (2013).

² King v. State, 425 Md. 550, 557, 42 A.3d 549, 553 (2012), *rev'd sub nom*. Maryland v. King, 133 S. Ct. 1958, 1962 (2013).

³ Md. Code, Public Safety, § 2-504(a)(3)(i).

⁴ The court referred to such situations as face transplants. *King*, 42 A.3d at 580.

⁵ Maryland v. King, 133 S. Ct. 1, 2 (2012) (Roberts, C.J.).

opinion stated that "there is a fair prospect that this Court will reverse the decision below"⁶ and found that "the decision below subjects Maryland to ongoing irreparable harm."⁷

The Chief Justice's prediction proved correct. But the margin of victory (5-4) was as narrow it could be, and the majority opinion leaves important questions unresolved. Moreover, the dissenting justices issued a biting opinion importuning the Court "some day"⁸ to repudiate its "incursion upon the Fourth Amendment."⁹ Indeed, when Justice Anthony Kennedy announced the opinion of the Court, Justice Antonin Scalia invoked the rare practice of reading a dissent aloud. For eleven minutes, he mocked the majority's defense of Maryland's law as a means of identifying arrestees. "[I]f the Court's identification theory is not wrong, there is no such thing as error,"¹⁰ he railed. As he and the three Justices who joined his dissenting opinion (Justices Ginsburg, Sotomayor, and Kagan) saw it, the majority's reasoning "taxes the credulity of the credulous."¹¹

Here, I describe the majority's reasoning and what the opinion established about the constitutionality of DNA sampling of arrestees. I criticize some parts of the majority and dissenting opinions. Both opinions, I show, leave room for further battles over the constitutionality of some features of DNA database laws. And, forged as they must be, in the crucible of incremental, case-by-case adjudication, neither opinion comes to grips with the most basic questions society must confront about DNA databases for law enforcement.

I. The Court's Reasoning

The *King* Court determined three things: (1) that buccal swabbing is a search subject to the Fourth Amendment; (2) that the constitutionality of this kind of search turns on the balance of state and individual interests; and (3) that this balance favors the state when the swabbing is done (a) after charges have been filed, (b) the loci tested do not reveal sensitive personal information, and (c) statutory and administrative privacy safeguards are in place. The first point was not in contention, as previous opinions had held that blood and urine sampling—indeed, even scraping a little debris from beneath a fingernail of a suspect—are searches. The real controversy in the case was over the second two points.

A. Choosing the balancing test

Justice Kennedy's opinion (joined by Chief Justice Roberts and Justices Thomas, Breyer, and Alito) concluded that the "the search … falls within the category of cases this Court has analyzed by reference to the proposition that the 'touchstone of the Fourth Amendment is reasonableness, not individualized suspicion."¹² At first glance, this

⁶ *Id.* at 3.

⁷ Id.

⁸ Maryland v. King, 133 S. Ct. 1958, 1990 (2013).

⁹ Id.

¹⁰ *King*, 133 S. Ct. at 1986.

¹¹ *Id.* at 1980.

¹² *Id.* at 1962.

phrasing is obscure if not misleading. The touchstone in *every* case is reasonableness, but a longstanding rule renders searches without probable cause or a warrant automatically unreasonable unless they fall within "a few specifically established and well-delineated exceptions."¹³ King argued that this per se rule governed and that no existing exception applied.

A court determined to uphold DNA sampling before conviction (DNA-BC) could have dealt with the per se rule in four ways. First, it might have forced DNA-BC into an existing categorical exception. The only plausible exception is for "special needs" or "administrative search" cases. The Court has used this exception many times. Drug testing in schools and in the workplace,¹⁴ roadblocks to find information about a hit-and-run driver¹⁵ and to get drunken drivers off the roads,¹⁶ and periodic searches of jail cells,¹⁷ for example, do not require probable cause and a warrant. The common theme of these cases is that the government's interests go beyond the production of evidence for use in a criminal investigation or prosecution. In ordinary cases, in which the only point of the search is to generate such evidence or to seize contraband or stolen items, a warrant is required. In cases in which an additional interest is present, the Court asks whether the state's interests outweigh the invasion of the individual interest in being free from arbitrary or oppressive searches.¹⁸

Establishing a suspect's true identity—what is called authentication in biometrics is a special need. It permits jailers, judges, and prosecutors to know whether an arrestee has a criminal record—not because the record is evidence of guilt in the current case—but because it is relevant to administrative and judicial decisions about the need for and nature of pretrial confinement. Having a permanent biometric record serves other interests as well.¹⁹

Yet, both opinions stated (with little analysis) that the case did not fall within the special-needs exception. The stumbling block was two cases in which the Court declared that the exception was inapplicable because criminal evidence collection was the "primary purpose" of the program of searches. One case involved road blocks and dogs trained to detect drugs; the other was a hospital program, developed in conjunction with law enforcement, to test the urine of pregnant women for drug metabolites and to refer the women to the police if they refused drug counseling. However, these cases are distinguishable in that the "primary purpose" of ordinary law enforcement was the *only* purpose. The Court has never decided whether the same result should apply when the

¹³ Katz v. United States, 389 U.S. 347, 357 (1967).

¹⁴ Vernonia Sch. Dist. 47J v. Acton, 515 U.S. 646 (1995).

¹⁵ Illinois v. Lidster, 540 U.S. 419, 420 (2004).

¹⁶ Michigan Dep't of State Police v. Sitz, 496 U.S. 444, 453 (1990).

¹⁷ Bell v. Wolfish, 441 U.S. 520 (1979).

¹⁸ See David H. Kaye, A Fourth Amendment Theory for Arrestee DNA and Other Biometric Databases, 15 U. Pa. J. Const. L. 1095, 1108 (2013).

¹⁹ David H. Kaye, *The Constitutionality of DNA Sampling on Arrest*, 10 CORNELL J. L. & PUB. POL'Y 455 (2000-2001).

program truly serves *multiple* purposes.²⁰ In any event, the *King* Court merely gestured to the special needs exception. It did not pursue this line of analysis.

Second, the Court might have created a new categorical exception for certain forms of biometric data collection.²¹ Although Maryland mentioned this possibility in its petition for review,²² neither side referred to it again, and the Court did not consider it.

Third, the Court could have adopted a new regime in which every case involves a direct inquiry into the reasonableness of the search under all the circumstances. This would resemble the rule in tort cases, in which juries are asked to use their best judgment to decide whether the defendant's conduct was unreasonable. Although some justices have spoken of Fourth Amendment reasonableness in this manner,²³ *King* does not leave every search open to such ad hoc balancing.

Rather, the Court chose a fourth option. It tried to confine the per-se-rule-withdefined-exceptions to some types of searches, leaving the kind of search before it to be judged under the balancing standard. Thus, Justice Kennedy described the categoricalexception approach as a preference rather than a rule of decision, defeasible in "some circumstances" "such as '[w]hen faced with special law enforcement needs, diminished expectations of privacy, minimal intrusions, or the like."²⁴ The majority's cryptic description of the circumstances in which the per se rule gives way to direct balancing is reminiscent of the theory of "family resemblances" propounded by the philosopher Ludwig Wittgenstein.²⁵ Wittgenstein famously argued that some terms, such as "games," do not denote a set of elements with any single property in common, but that the items in question are linked together like "members of a family: build, features, colour of eyes, gait, temperament, etc. etc. overlap and criss-cross."²⁶ Whether, after *King*, observers can recognize the "family" of cases for which balancing is appropriate is anyone's guess, but the Court was certain that the *King* case belongs to it.

B. Applying the Balancing Test

Having settled on the open-ended balancing standard for ascertaining the reasonableness of the Maryland law, the majority applied it with relish. After praising "DNA technology [as] one of the most significant scientific advancements of our era,"²⁷ the Court noted "the need for law enforcement officers in a safe and accurate way to process and

²⁰ Kaye, *supra* note 18, at 1125.

²¹ Id.; David H. Kaye, Who Needs Special Needs? On the Constitutionality of Collecting DNA and Other Biometric Data from Arrestees, 34 J.L. Med. & Ethics 188 (2006).

²² Appellate Petition for Writ of Certiorari to the Court of Appeals of Maryland, Maryland v. King, 133 S. Ct. 1958 (2013) (No. 12-207).

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²⁴ *King*, 133 S. Ct. at 1969.

²⁵ LUDWIG WITTGENSTEIN, PHILOSOPHICAL INVESTIGATIONS (London Wiley-Blackwell 2009) (1953). ²⁶ *Id.* at 32.

²⁷ *King*, 133 S. Ct. at 1966.

identify the persons and possessions they must take into custody."²⁸ This processing and identification, the Court emphasized, is not limited to the authentication function (in detecting escapees or other individuals who have disguised their identity). The processing also can be investigative: "A DNA profile is useful to the police because it gives them a form of identification to search the records already in their valid possession. In this respect the use of DNA for identification is no different than matching an arrestee's face to a wanted poster of a previously unidentified suspect; or matching tattoos to known gang symbols to reveal a criminal affiliation; or matching the arrestee's fingerprints to those recovered from a crime scene."²⁹ In fact, with respect to trawling a database of crime-scene records, "the only difference between DNA analysis and the accepted use of fingerprint databases is the unparalleled accuracy DNA provides."³⁰ Once officials discover a recorded criminal history or apparent involvement in an unsolved crime, whether by fingerprints or DNA, they can make better "critical choices about how to proceed"³¹ with respect to the period and nature of confinement.

Strangely missing from this list of the state's interests is the very thing that the DNA sample in *King* was used for—to charge and convict him of an unrelated crime. The closest the Court comes to acknowledging the state's dominant objective of criminal intelligence—of linking arrestees to unsolved crimes—is a short paragraph in which it states that "[f]inally, in the interests of justice, the identification of an arrestee as the perpetrator of some heinous crime may have the salutary effect of freeing a person wrongfully imprisoned for the same offense."³² By focusing so intently on "processing," the opinion effectively forces the practice of DNA-BC into the "special needs" category even while saying that the special needs cases "do not have a direct bearing on the issues presented in this case."³³ In this way, the Court maintained the façade of the "primary purpose" test for special needs balancing, yet engaged in exactly the kind of balancing it uses for special needs cases.

Having articulated a subset of all the state interests in DNA-BC, the Court had to weigh them against the individual interests that underlie the Fourth Amendment. First, the Court depicted the state's interests as substantial. The "proper processing of arrestees," it stressed, is not only "legitimate," but also "so important [that it] has consequences for every stage of the criminal process."³⁴ Next, it perceived a close link between these interests and "DNA identification," which "represents an important advance in the techniques used by law enforcement to serve legitimate police concerns."³⁵ Indeed, the Court insisted that "DNA identification is an advanced technique superior to fingerprinting in many ways, so much so that to insist on fingerprints as the norm would make little sense

- ²⁸ *Id.* at 1970.
- ²⁹ *Id.* at 1971.
- ³⁰ *Id.* at 1964.
- ³¹ Id. at 1971.
- ³² *Id.* at 1974.
- ³³ *Id.* at 1978.
- ³⁴ *Id.* at 1974.
- ³⁵ *Id.* at 1975.

to either the forensic expert or a layperson."³⁶ But the only superior aspect of DNA profiling for authentication that the opinion pointed out was its power to confound the "suspect who has changed his facial features to evade photographic identification or even one who has undertaken the more arduous task of altering his fingerprints"³⁷ Moreover, the Court did not mention the inability of DNA profiling to distinguish among pairs of monozygotic twins (who represent about 3 in a 1000 births).³⁸ In that regard at least, fingerprints are superior.

On the other side of the ledger, the Court perceived no significant "intrusion upon the arrestee's privacy beyond that associated with fingerprinting"³⁹ The sampling procedure itself—the "cheek swab"—"is a minimal [intrusion]."⁴⁰ Neither do the details of King's "13 CODIS loci ... intrude on ... privacy in a way that would make his DNA identification unconstitutional."⁴¹ After all, "alleles at the CODIS loci 'are not at present revealing information beyond identification"⁴² and "even if non-coding alleles could provide some information, they are not in fact tested for that end."⁴³ Under Maryland's law, "[a] person may not willfully test a DNA sample for information that does not relate to the identification of individuals"⁴⁴ Thus, "[i]n light of the scientific and statutory safeguards, ... the STR analysis of respondent's DNA pursuant to CODIS procedures did not amount to a significant invasion of privacy"⁴⁵ when compared to the value of DNA-BC for pretrial authentication of identity and informed decision-making about arrestees.

II. The Dissent's Reasoning

Like the majority, the four dissenters recognized that "free-form" balancing is not generally available, but they drew the line at a different point. The Scalia opinion asserted that "[t]he Fourth Amendment forbids searching a person for evidence of a crime when there is no basis for believing the person is guilty of the crime or is in possession of incriminating evidence. ... Whenever this Court has allowed a suspicionless search, it has insisted upon a justifying motive apart from the investigation of crime."⁴⁶ The dissent then argued, caustically and convincingly, that the Maryland legislature was not thinking primarily (if at all) about things like setting bail and catching escapees who may have changed their other biometric features when it expanded its DNA databanking law to encompass arrestees. Those lawmakers were out to enhance the efficacy of the state database in catching criminals by using it to associate the unidentified crime-scene samples

³⁶ *Id.* at 1976.
³⁷ *Id.*³⁸
³⁹ *King,* 133 S. Ct. at 1964.
⁴⁰ *Id.* at 1977.
⁴¹ *Id.* at 1979.
⁴² *Id.*⁴³ *Id.*⁴⁴ *Id.* at 1980.
⁴⁵ *Id.*⁴⁶ *Id.* (dissenting opinion).

with a larger collection of known samples (from arrestees plus the previous base of convicted offenders). And that the constitution forbids—no matter how minor the intrusion on the person and on privacy—for the Fourth Amendment "prohibition [on suspicionless searches] is "categorical and without exception."⁴⁷

There are, however, a number of difficulties with this reading of the constitution and the case law. For one, the Court has upheld suspicionless searches whose primary purpose was to develop investigatory leads or find evidence of guilt. The sole purpose of the roadblock in a case known as *Illinois v. Lister*⁴⁸ was to discover the identity of a hit-and-run driver. There, Justice Scalia joined the Court's opinion concluding that the search fell into the special needs category in part because the invasion of the interests of the motorists who were stopped for questioning was minimal. So too, the Court in *Samson v. California*⁴⁹, with Justice Scalia's approval, upheld a police officer's suspicionless search of the clothing of a parolee. Although these cases might be distinguished from *King*, they show that the dissent's "categorical" rule is not "without exception." A great many judges in state and federal courts alike were convinced that the categorical rule did not apply.⁵⁰

Because the dissent dismissed the majority's "free-form reasonableness" analysis as impermissible, it did not directly question the details of that balancing or argue that, in a sensible and complete balancing of the relevant state and individual interests, the former should prevail. In fact, the dissent objected to the balancing precisely because it thought that such balancing must justify far more than the collection of DNA from arrestees (a matter that I address below).

At the same time, the dissent did maintain that arrestee databasing, as actually practiced in Maryland and elsewhere, was inconsistent with the "legitimate" purposes the majority attributed to DNA-BC. The state did not collect the sample, analyze it, and upload the profile as part of the booking process. Days, weeks, and months went by for this process to be completed. King's profile was not checked against the existing offender and arrestee indices to see whether he was who he claimed. For the dissent, all that mattered was that "DNA … *was [not] used for identification [in the sense of authentication] here*."⁵¹ "[T]he proud men who wrote the charter of our liberties would [not] have been so eager to open their mouths for royal inspection,"⁵² and that was that.

III. The Unresolved Issues

When lawyers describe a judicial opinion, they speak of its "holding" as opposed to its "dicta." The holding, narrowly stated, depends on the facts of the case that were clearly

⁴⁷ Id.

⁴⁸ Illinois v. Lidster, 540 U.S. 419 (2004).

⁴⁹ Samson v. California, 547 U.S. 843 (2006).

⁵⁰ David H. Kaye, *On the "Considered Analysis" of DNA Collection before Conviction*, 60 UCLA L. REV. DISC. 104 (2013).

⁵¹ *King*, at 1989.

⁵² Id.

important under the reasoning of the judges. Other statements about the law are dicta. They do not bind other courts. The facts in *King* that might limit the reach of the Court's opinion are that DNA sampling was confined to "serious offenses" (violent crimes and burglaries); that officials had no discretion to pick and choose whose DNA to acquire; that a physical intrusion into the body took place; that the loci tested revealed no sensitive medical information; that the state trawled the forensic index (of unsolved crime-scene profiles) only for matches to the arrestee (and not for partial matches that might point to immediate relatives); and that the profiling and uploading occurred after formal charges. Which of these factors are actually critical to the Court's conclusion that the Fourth Amendment allows DNA-BC?

A. A "serious offense" limitation?

The Kennedy majority cautioned that "the necessary predicate of a valid arrest for a serious offense is fundamental."⁵³ The dissenters could not "imagine what principle could possibly justify this limitation"⁵⁴ In their view,

If one believes that DNA will "identify" someone arrested for assault, he must believe that it will "identify" someone arrested for a traffic offense. This Court does not base its judgments on senseless distinctions. At the end of the day, logic will out. When there comes before us the taking of DNA from an arrestee for a traffic violation, the Court will predictably (and quite rightly) say, "We can find no significant difference between this case and *King*." Make no mistake about it: As an entirely predictable consequence of today's decision, your DNA can be taken and entered into a national DNA database if you are ever arrested, rightly or wrongly, and for whatever reason.⁵⁵

The dissent's imagination is strangely limited. One can sensibly suggest that, on average, people arrested for minor traffic offenses are less likely to be hiding their true identities and to have incriminating DNA samples at crime-scenes that are people arrested for far more serious matters. Under "free-form" balancing, this is a logically relevant consideration. Whether this difference is significant enough to change the outcome is debatable, of course, but the outcome is not "entirely predictable."

If the dissent were correct in lamenting that "your DNA can be taken and entered into a national DNA database if you are ever arrested, rightly or wrongly, and for whatever reason,"⁵⁶ everyone could be rounded up (arrested on no basis whatever) and typed. If such a case ever arose and the dissenters did not have the votes to overrule *King*, they certainly would argue that *King* simply does not apply. It would be perverse for any justice to maintain that the government would be free to retain the *wrongfully acquired* samples

⁵⁶ Id.

⁵³ *Id.* at 1978.

⁵⁴ *Id.* at 1989.

⁵⁵ Id.

and profiles just because *King* holds that is permissible to acquire these items from properly arrested individuals.

But what about a system that acquired DNA from everyone without trampling on their Fourth Amendment right to free from arbitrary arrests? What if the state made DNA donation at the time of taking a driving test a condition for issuing a driver's license? What if neonatal screening tests for genetic conditions now performed as a public health measure (and thus permissible under a special-needs analysis) were expanded to include STR profiling, with the identification profiles being uploaded to law enforcement databases? Police never would touch these samples (or the babies), but a population-wide database could emerge.⁵⁷ Universality would remove the disparate impact by race and class that infuses the current system and intensify the level of public scrutiny of responses to any abuses in its administration. Although it may be a nonstarter politically, the principled case for a population-wide database is not frivolous.⁵⁸

B. Uniformity of application

A key factor for the majority's approval of direct reasonableness balancing was that "the search involves no discretion that could properly be limited by the '[interpo[lation of] a neutral magistrate between the citizen and the law enforcement officer."⁵⁹ In other situations, such as roadblocks for drunken driving, the uniformity or randomness of the impositions on affected individuals has been important. If government officials were left to pick and choose among arrestees or other groups of people, the "family resemblance" referred to earlier would be absent, and the DNA sampling should be impermissible under the usual per se rule for warrantless searches.

C. Intrusion into the body

All the justices seem to agree that the physical intrusion in buccal swabbing is minor. Obviously, this fact is critical to the majority's balancing. But suppose that the dissent were correct in proposing that even the most trivial physical intrusion justifies applying its categorical rule. A state could collect DNA even less intrusively. At some point, would the collection fall below the threshold of oppressiveness required for a "search" to exist? For example, the government might only ask for a hand to be placed on a sticky pad. The dissent might respond that the "proud men who wrote the charter of our liberties would [not] be so eager to [move their limbs] for royal inspection,"⁶⁰ but neither would those "proud men" be not be so eager to have their pictures taken by a royal photographer,

⁵⁷ David H. Kaye & Michael E. Smith, DNA Identification Databases: Legality, Legitimacy, and the Case for Population-wide Coverage, 2003 WIS. L. REV. 413 (2003); David H. Kaye et al., Is a DNA Identification Database in Your Future?, CRIM. JUST., Fall 2001, at 5-9, 19.

⁵⁸ *Id.*; Richard Lempert, *Maryland v. King: An Unfortunate Supreme Court Decision on the Collection of* DNA Samples, BROOKINGS INSTITUTION (June 6, 2013) at http://www.brookings.edu/blogs/upfront/posts/2013/06/06-maryland-king-supreme-court-dna-samples-lempert. ⁵⁹ *King*, 133 S. Ct. at 1969.

⁶⁰ Id. at 1989.

and photography itself does not even rise to the level of a search that requires justification under the Fourth Amendment. 61

D. Noncoding loci and statutory privacy protections

The Court makes much of the fact that the CODIS alleles are not transcribed to RNA that is translated into proteins. Although an amicus brief from a group of scientists cautioned that the term "junk DNA" has a scientific meaning that is different than its colloquial one,⁶² the Court wrote that "[t]he CODIS loci are from the non-protein coding junk regions of DNA, and 'are not known to have any association with a genetic disease or any other genetic predisposition. Thus, the information in the database is only useful for human identity testing."⁶³ Yet, the fact that STRs may be considered "junk" from an evolutionary perspective and that they do not code for protein does not necessarily mean that they do not affect the quantity or timing of gene expression. Moreover, CODIS loci certainly can be used to make inferences about a few family relationships and to give rough indications of biogeographic ancestry. All this was known to the Court.⁶⁴

Although there are reasons to be skeptical of claims that the particular tetranucleotide sequences used in CODIS-compatible databases are likely to cause or to be strongly predictive of any medical conditions,⁶⁵ suppose that these sequences turned out to be clinically relevant. Not surprisingly, the Court implies that this could alter the balance of interests: "If in the future police analyze samples to determine, for instance, an arrestee's predisposition for a particular disease or other hereditary factors not relevant to identity, that case would present additional privacy concerns not present here."⁶⁶

E. Outer-directed database trawling (a.k.a. "familial searching")

⁶¹ Kaye, *supra* note 19; Kaye, *supra* note 18; Kaye, *supra* note 50.

⁶² Brief of Genetics, Genomics and Forensic Science Researchers as Amici Curiae Supporting Neither Party, Maryland v. King, 133 S. Ct. 1958 (2013) (No. 12-207).

⁶³ *King*, 133 S. Ct. at 1968.

⁶⁴ Brief, *supra* note 62.

⁶⁵ Id.

⁶⁶ *King*, 133 S. Ct. at 1979.

⁶⁷ *Id.* at 1980.

⁶⁸ Whalen v. Roe, 429 U.S. 589, 605 (1977).

⁶⁹ *King*, 133 S. Ct. at 1980.

Maryland is almost alone in explicitly prohibiting trawling in a database for the purpose of detecting very close relatives who might be the source of the crime-scene sample. The Court noted this part of Maryland's laws, but it did not consider whether this ban actually mattered in its balancing.

It seems doubtful that a court should strike down a law providing for arrestee sampling—anymore than it should invalidate one that mandates sampling after conviction—just because a jurisdiction uses or might use "familial searching" software. If a constitutional challenge to this procedure arises, a court can address it. Although such "outer-directed" trawling has been criticized as a grave invasion of the privacy of individuals whose DNA is in the database as well as their relatives⁷⁰, the argument that the practice, if implemented properly, is unconstitutional has been criticized.⁷¹

F. Profiling before charging

Finally, the *King* decision is limited to a system that defers DNA analysis until charges have been brought. On the one hand, the dissent complained that this delay undercuts the majority's claim that DNA-BC is for authenticating the identity of the arrestee. On the other hand, the majority seemed comforted by the existence of a judicial finding of probable cause to believe that the arrestee is guilty of an offense. In particular, Justice Kennedy wrote that "[o]nce an individual has been arrested on probable cause for a dangerous offense that may require detention before trial, however, his or her expectations of privacy and freedom from police scrutiny are reduced."⁷²

Although initially appealing, it is hard to see why a line of constitutional magnitude must be drawn at the point of a probable cause determination. If what the Court meant by "reduced" "expectations of privacy and freedom" is that the state may subject a prisoner to *other* humiliating and privacy-reducing procedures, such as unannounced inspections of cells and even intensive strip searches of the person, then its observation begs the question. That a person loses some—even a great deal of—privacy because he is in custody does not automatically reduce his interest in maintaining *other* aspects of privacy. Police may not rush out and search an arrestee's apartment without a warrant just because he has numerically fewer "expectations of privacy and freedom" while he is jailed.

Nonetheless, a finding of probable cause to hold an individual for trial does justify continued detention, which makes *delayed* DNA testing for the pretrial purposes enumerated by the majority more justified. For example, that an individual charged with a crime committed a brutal rape bears on his flight risk, since this person might fear that he will be convicted, which would then lead to a DNA match and, in turn, an additional conviction for the rape. Furthermore, to the extent people who are validly charged are

⁷⁰ Erin Murphy, *Relative Doubt: Familial Searches of DNA Databases*, 109 MICH. L. REV. 291 (2010-2011).

⁷¹ David H. Kaye, *The Genealogy Detectives: A Constitutional Analysis of "Familial Searching"*, 51 Ам. СRIM. L. REV. 109 (2013).

⁷² *King*, 133 S. Ct. at 1978.

likely to have committed DNA-related crimes than are people who have been arrested but not validly charged, the state has a greater interest in trawling the crime-scene profiles for possible matches.

Consequently, a prosecutor's decision to bring some charges and a judicial finding of probable cause are not irrelevant. But neither are they decisive. A prosecutor may not pursue a case even when there is probable cause, and a magistrate might mistakenly find that such cause is lacking even when it is actually present. As a consequence, the state would lose the opportunity to discover whether the arrestee is linked to other crimes. Taking DNA and completing a database search immediately avoids this loss to the government's interests. As long as DNA sampling is minimally intrusive and the privacy interests in the identification profiles are weak, the net balance of state and individual interests does not seem to change substantially if the DNA sampling and analysis occurs at the initial booking,⁷³ as it can with microfluidic technology.⁷⁴

G. Retention without conviction

Finally, the King opinions do not address the reasonableness of retaining samples or profiles even if a conviction does not follow the arrest. Maryland law provides for the automatic destruction of samples and records in that situation. Some other jurisdictions place the burden of requesting expungement on the individual. Although this difference could have important practical consequences, it seems too slight to tip the scales against constitutionality.

But what about a law that allows the state to retain the samples or profiles indefinitely, even in the absence of a conviction? The Kennedy majority's position that the presumption that sensitive data—beyond the individual's apparent link to a crime—will not be disclosed or used is sufficient to protect legitimate privacy interests seems to imply that continued retention and trawling also is permissible. However, under the direct reasonableness standard, it also can be argued that the state has less reason to trawl crime-scene databases for matches to people who never have been convicted of the offenses that result in inclusion in offender or arrestee databases and who no longer are subject to pretrial detention or supervision.

Conclusion

Maryland v. King perpetuates doctrinal confusion over the necessary conditions for program-specific balancing as opposed to a categorical rule for warrantless, suspicionless searches. The Court did not consider the straightforward step of crafting a new exception, confined to biometric data, to the per se rule of unconstitutionality, and it chose not to limit the few cases that speak of a "primary purpose" requirement rather than a more logical, multiple-needs basis for balancing. As a result, the majority balanced with blinders on.

⁷³ David H. Kaye, *Drawing Lines: Unrelated Probable Cause as a Prerequisite to Early DNA Collection*, 91 N.C. L. REV. ADDENDUM 1, 3 (2012).

These justices surely understood that DNA may solve an unrelated case, but they strained to justify collecting the DNA on grounds specific to pretrial detention. They amassed as many state interests as they could find—other than the most important one of prosecuting arrestees for other, and possibly more serious crimes than those for which they were arrested.

This strategy enabled the dissent to portray the Court's opinion as contrived. But the dissenting opinion was completely superficial, substituting a Fourth Amendment formalism for an assessment of the individual interests at stake. The dissent's rigid theory of what the amendment requires does not fit all the case law and should not prevent a state from adopting a bona fide, multimodal system of biometrics—including DNA along with physical features—for authentication of identity and subsequent criminal intelligence gathering made possible by modern databases.

The Court's inquiry into direct reasonableness (but only for purposes other than criminal investigation) was adequate to resolve the case before it, but it leaves important questions about the design of DNA databases unresolved. Litigation on some of these matters already is progress.⁷⁵ Two significant events in *King* itself were the participation of the U.S. Department of Justice and the amicus brief prepared by California.⁷⁶ Every state joined in this brief even though nearly half do not take DNA prior to conviction. *King* preserves their opportunity to expand their databases. If they choose to do so, they should not necessarily copy Maryland's law (or the more sweeping federal one),⁷⁷ but should consider issues such as whether to continue to tie the system of personal identifiers to individuals swept up in the criminal justice system; which offenses to select for DNA collection under the current approach; how long to retain samples and profiles; and how best to protect against the disclosure of any powerfully private information.

⁷⁵ Haskell v. Harris, 686 F.3d 1121 (9th Cir. 2012); People v. Buza, 129 Cal.Rptr.3d 753 (Ct. App. 2011), rev. granted, 262 P.3d 854 (Cal. 2011).

⁷⁶ Appellate Brief for the States of California [et al.] as Amici Curiae Supporting Petitioner, Maryland v. King, 133 S. Ct. 1958 (2013) (No. 12-207).

⁷⁷ Federal law seems to permit DNA collection for custodial arrests for every offense, no matter how minor. United States v. Kriesel, No. 11–30197, 2013 WL 3242293 (9th Cir. June 28, 2013) (dissenting opinion).