

Genetic Suspects

Global Governance of Forensic DNA
Profiling and Databasing

EDITED BY **Richard Hindmarsh** and **Barbara Prainsack**



CAMBRIDGE

Genetic Suspects Global Governance Of Forensic Dna Profiling And Databasing

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Genetic Suspects Global Governance Of Forensic Dna Profiling And Databasing:

Genetic Suspects Richard Hindmarsh, Barbara Prainsack, 2010-08-12 As DNA forensic profiling and databasing become established as key technologies in the toolbox of the forensic sciences their expanding use raises important issues that promise to touch everyone's lives In an authoritative global investigation of a diverse range of countries including those at the forefront of these technologies development and use this book identifies and provides critical reflection upon the many issues of privacy distributive justice DNA information system ownership biosurveillance function creep the reliability of collection storage and analysis of DNA profiles the possibility of transferring medical DNA information to forensics databases and democratic involvement and transparency in governance an emergent key theme This book is timely and significant in providing the essential background and discussion of the ethical legal and societal dimensions for academics practitioners public interest and criminal justice organisations and students of the life sciences law politics and sociology

Forensic Genetics in the Governance of Crime Helena Machado, Rafaela Granja, 2020-01-28 This open access book uses a critical sociological perspective to explore contemporary ways of reformulating the governance of crime through genetics Through the lens of scientific knowledge and genetic technology Machado and Granja offer a unique perspective on current trends in crime governance They explore the place and role of genetics in criminal justice systems and show how classical and contemporary social theory can help address challenges posed by social processes and interactions generated by the uses meanings and expectations attributed to genetics in the governance of crime Cutting edge methods and research techniques are also integrated to address crucial aspects of this social reality Finally the authors examine new challenges emerging from recent paradigm shifts within forensic genetics moving away from the construction of evidence as presented in court to the production of intelligence guiding criminal investigations

Genetic Surveillance and Crime Control Helena Machado, Rafaela Granja, 2021-11-29 Genetic Surveillance and Crime Control presents a new empirical and conceptual framework for understanding trends of genetic surveillance in different countries in Europe and in other jurisdictions around the world The use of DNA or genome for state level surveillance for crime governance is becoming the norm in democratic societies In the post DNA contemporary modes of criminal identification are gradually changing through the increasing expansion of transnational sharing of DNA data along with the development of highly controversial genetic technologies that pose acute challenges to privacy and generate fears of discrimination racism and stigmatization Some questions that guide this book are How is genetic surveillance in the governance of crime intertwined with society ethics culture and politics What are the views and expectations of diverse stakeholders scientists police agencies and non governmental organizations How can social sciences research about genetic surveillance accommodate socio cultural and historical differences and be sensitive to specificities of post authoritarian societies in Europe Taking an interdisciplinary approach focused on challenges to genetic privacy human rights and citizenship in contemporary societies this book will be of interest to students and

scholars of social studies of science and technology sociology criminology law and policing international relations and forensic sciences *Law, Practice and Politics of Forensic DNA Profiling* Victor Toom, Matthias Wienroth, Amade M'charek, 2022-12-30 This collection reviews developments in DNA profiling across jurisdictions with a focus on scientific and technological developments as well as their political ethical and socio legal aspects Written by leading scholars in the fields of social studies of forensic science science and technology studies and socio legal studies the book provides state of the art analyses of forensic DNA practices in a diverse range of jurisdictions new and emerging forensic genetics technologies and issues of legitimacy The work articulates the various forms of technolegal politics involved in the everyday standardised and emerging practices of forensic genetics and engages with the most recent scholarly and policy literature In analyses of empirical cases and by taking into account the most recent technolegal developments the book explores what it means to live in a world that is increasingly governed through anticipatory crime control and its related risk management and bio surveillance mechanisms which intervene with and produce political and legal subjectivities through human bodies in their DNA This volume is an invaluable resource for those working in the areas of social studies of forensic science science and technology studies socio legal studies sociology anthropology ethics law politics and international relations *Forensic DNA Evidence Interpretation* John S. Buckleton, Jo-Anne Bright, Duncan Taylor, 2018-09-03 Now in its second edition *Forensic DNA Evidence Interpretation* is the most comprehensive resource for DNA casework available today Written by leaders in the fields of biology and statistics including a contribution from Peter Gill the father of DNA analysis the book emphasizes the interpretation of test results and provides the necessary formulae in an easily accessible manner This latest edition is fully updated and includes current and emerging techniques in this fast moving field The book begins by reviewing all pertinent biology and then provides information on every aspect of DNA analysis This includes modern interpretation methods and contemporary population genetic models available for estimating DNA frequencies or likelihood ratios Following a chapter on procedures for validating databases the text presents overviews and performance assessments of both modern sampling uncertainty methods and current paternity testing techniques including new guidelines on paternity testing in alignment with the International Society for Forensic Genetics Later chapters discuss the latest methods for mixture analysis LCN ultra trace analysis and non autosomal mito X and Y DNA analysis The text concludes with an overview of procedures for disaster victim identification and information on DNA intelligence databases Highlights of the second edition include New information about PCR processes heterozygote balance and back and forward stuttering New information on the interpretation of low template DNA drop models and continuous models Additional coverage of lineage marker subpopulation effects mixtures and combinations with autosomal markers This authoritative book provides a link among the biological forensic and interpretative domains of the DNA profiling field It continues to serve as an invaluable resource that allows forensic scientists technicians molecular biologists and attorneys to use forensic DNA evidence to its greatest potential **Trust in**

International Police and Justice Cooperation Saskia Hufnagel, Carole McCartney, 2017-01-26 The use of extra territorial intelligence is growing among security border and public agencies Internationally rapidly evolving efforts to tackle transnational crime entail the exchange of intelligence across jurisdictions and state borders as well as the linking of law enforcement operations This book provides a number of different perspectives from across Europe Australasia and Canada to examine recent cooperation experiences and the challenges faced in practice The book brings together scholars from a range of legal and criminological fields to examine the legal imperatives and social parameters that shape international police and justice cooperation and highlights the importance of both trust and clear legal rules to ensure effective cooperation It focuses on areas where cooperation is now mandated but where significant issues are raised including the international and regional methods of information and intelligence exchange and challenges to human rights protection the coordination of international and regional exchange of evidence such as forensic bioinformation police cooperation in international investigations and the added value of formalising investigative strategies across jurisdictions regionally and internationally and the operation accountability and legitimacy of organisations and institutions of cooperation in law enforcement and specific international policing missions Forensic Science Christopher Lawless, 2022-03-07 Forensic Science provides a comprehensive overview of the sociology of forensic science Drawing on a wealth of international research and case studies it explores the intersection of science technology law and society and examines the production of forensic knowledge The book explores a range of key topics such as The integration of science into police work and criminal investigation The relationship between law and science Ethical and social issues raised by new forensic technology including DNA analysis Media portrayals of forensic science Forensic policy and the international agenda for forensic science This new edition has been fully updated particularly with regard to new technology in relation to the various new forms of DNA technology and facial recognition Updates and additions include Facial recognition technology Digital forensics and its use in policing Algorithms such as probabilistic genotyping Genealogical searching Phenotyping This new edition also reviews and critically appraises recent scholarship in the field and new international case studies have been introduced providing readers with an international comparative perspective Engaging with sociological literature to make arguments about the ways in which forensic science is socially constituted and shapes justice Forensic Science provides an excellent introduction to students about the location of forensic science and the ways it fits within the criminal justice system as well as systems of professionalisation and ethics It is important and compelling reading for students taking a range of courses including criminal investigation policing forensic science and the sociology of science and technology Forensic DNA Applications Dragan Primorac, Moses Schanfield, 2014-01-29 Forensic DNA Applications An Interdisciplinary Perspective was developed as an outgrowth of a conference held by the International Society of Applied Biological Sciences The topic was human genome based applications in forensic science anthropology and individualized medicine Assembling the contributions of contributors

from numerous regions around the world this volume is designed as both a textbook for forensic molecular biology students and a reference for practitioners and those in the legal system The book begins with the history and development of DNA typing and profiling for criminal and civil purposes It discusses the statistical interpretation of results with case examples mitochondrial DNA testing Y single nucleotide polymorphisms SNPs and short tandem repeats STRs and X SNP and STR testing It also explores low copy number DNA typing mixtures and quality assurance and control The second section examines the collection and preservation of biological evidence under a variety of different circumstances and the identification of human remains including in mass disaster settings It discusses applications to bioterrorism investigations animal DNA testing in criminal cases pedigree questions and wildlife forensic problems applications in forensic entomology and forensic botany The third section explores recent developments and new technologies including the rigorous identification of tissue of origin mtDNA profiling using immobilized probe strips chips and next generation sequencing the use of SNPs to ascertain phenotypic characteristics and the molecular autopsy that looks at aspects of toxicogenetics and pharmacogenetics The book concludes with a discussion on law ethics and policy It examines the use of DNA evidence in the criminal justice system in both the United States and Europe ethical issues in forensic laboratory practices familial searches DNA databases ancestry searches physical phenotyping and report writing The contributors also examine DNA applications in immigration and human trafficking cases and international perspectives on DNA databases

Knowledge, Technology and Law Emilie Cloatre, Martyn Pickersgill, 2014-09-15 The relationships between knowledge technologies and legal processes are central to the constitution of contemporary societies As such they have come to provide the focus for a range of academic projects across interdisciplinary legal studies and the social sciences The domains of medical law and ethics intellectual property law environmental law and criminal law are just some of those within which the pervasive place and impact of technoscience is immediately apparent At the same time social scientists investigating the making of technology and expertise in particular scholars working within the tradition of science and technology studies frequently interrogate how regulation and legal processes and the making of knowledge and technologies are intermingled in complex ways that come to shape and define each other This book charts the important interface between studies of law science and society as explored from the perspectives of socio legal studies and the increasingly influential field of science and technology studies It brings together scholars from both areas to interrogate the joint roles of law and science in the construction and stabilization of socio technical networks objects and standards as well as their place in the production of contemporary social realities and subjectivities

Tracing Technologies Helena Machado, Barbara Prainsack, 2016-02-24 The real heroes of television crime shows in the twenty first century are no longer police detectives but forensic technologies The immense popularity of high tech crime television shows has changed the way in which crime scene work is viewed The term CSI effect was coined to signify a situation where people's views and practices have been influenced by such media representations e.g. judges and

jurors putting more weight on forensic evidence that has been produced with high tech tools in particular DNA evidence than on other kinds of evidence While considerable scholarly attention has been paid to examining the CSI effect on publics jurors judges and police investigators prisoners views on forensic technologies and policing have been under explored Drawing on a research sample of over 50 interviews carried out with prisoners in Portugal and Austria this groundbreaking book shows how prisoners view crime scene traces how they understand crime scene technologies and what effect they attribute to the existence of large police databases on their own lives careers and futures Through critically engaging with STS sociological and criminological perspectives on the use of DNA technologies within the criminal justice system this work provides the reader with valuable insights into the effect of different legal political discursive and historical configurations on how crime scene technologies are utilized by the police and related to by convicted offenders

Encyclopedia of Forensic Sciences, 2012-12-28 Forensic science includes all aspects of investigating a crime including chemistry biology and physics and also incorporates countless other specialties Today the service offered under the guise of forensic science includes specialties from virtually all aspects of modern science medicine engineering mathematics and technology The Encyclopedia of Forensic Sciences Second Edition Four Volume Set is a reference source that will inform both the crime scene worker and the laboratory worker of each other s protocols procedures and limitations Written by leading scientists in each area every article is peer reviewed to establish clarity accuracy and comprehensiveness As reflected in the specialties of its Editorial Board the contents covers the core theories methods and techniques employed by forensic scientists and applications of these that are used in forensic analysis This 4 volume set represents a 30% growth in articles from the first edition with a particular increase in coverage of DNA and digital forensics Includes an international collection of contributors The second edition features a new 21 member editorial board half of which are internationally based Includes over 300 articles approximately 10pp on average Each article features a suggested readings which point readers to additional sources for more information b a list of related Web sites c a 5 10 word glossary and definition paragraph and d cross references to related articles in the encyclopedia Available online via SciVerse ScienceDirect Please visit www.info.sciencedirect.com for more information This new edition continues the reputation of the first edition which was awarded an Honorable Mention in the prestigious Dartmouth Medal competition for 2001 This award honors the creation of reference works of outstanding quality and significance and is sponsored by the RUSA Committee of the American Library Association

Identification and Registration Practices in Transnational Perspective J. Brown, I. About, G. Lonergan, 2013-07-29 This collection examines the subject of identification and surveillance from 16th C English parish registers to 21st C DNA databases The contributors who range from historians to legal specialists provide an insight into the historical development behind such issues as biometric identification immigration control and personal data use

Genetics and the Politics of Security Joëlle Vailly, 2024-05-13 Presenting a social science perspective on the contemporary gaze on the body of the suspect this

book considers how definitions of criminality offenses individual rights and the concepts of identity and difference have been altered by changes in the biological status of the human Spurred by rapid developments in genetics and information technology a number of countries including France the United States the United Kingdom China and the Netherlands have considerably expanded their genetic databases used by the police and the criminal justice system Whilst this makes it possible to compare DNA left at the scene of a crime with that of an individual known to the police helping to identify individuals for the purposes of court proceedings these innovations also raise a number of important questions such as how the relationship between respect for the rights of individuals and the security of populations is discussed as well as for how long this data should be retained Genetic analysis also raises concerns related to phenotyping and biogeographical origin that could lead to the stigmatization of targeted groups Offering a comprehensively argued view on how DNA acts not only as a tracker of suspicion but also as a marker of contemporary social developments *Genetics and the Politics of Security* will appeal to students and scholars judiciary personnel lawyers police officers and people with an interest in criminology and the use of genetics in the criminal justice process

Modes of Bio-Bordering Nina Amelung,Rafaela Granja,Helena Machado,2020-10-30 This open access book explores how biometric data is increasingly flowing across borders in order to limit control and contain the mobility of selected people namely criminalized populations It introduces the concept of bio bordering using it to capture reverse patterns of bordering and ordering practices linked to transnational biometric data exchange regimes The concept is useful to reconstruct how the territorial foundations of national state autonomy are partially reclaimed and at the same time partially purposefully suspended The book focuses on the Pr m system which facilitates the mandatory exchange of forensic DNA data amongst EU Member States The Pr m system is an underexplored phenomenon representing diverse instances of bio bordering and providing a complex picture of the hidden dis integration of Europe Particular legal scientific technical and political dimensions related to the governance and uses of biometric technologies in Germany the Netherlands Poland Portugal and the United Kingdom are specifically explored to demonstrate both similar and distinct patterns

The SAGE Handbook of Global Policing Ben Bradford,Beatrice Jauregui,Ian Loader,Jonny Steinberg,2016-07-14 The SAGE Handbook of Global Policing examines and critically retraces the field of policing studies by posing and exploring a series of fundamental questions to do with the concept and institutions of policing and their relation to social and political life in today s globalized world The volume is structured in the following four parts Part One Lenses Part Two Social and Political Order Part Three Legacies Part Four Problems and Problematics By bringing new lines of vision and new voices to the social analysis of policing and by clearly demonstrating why policing matters the Handbook will be an essential tool for anyone in the field

Counter-terrorism, Constitutionalism and Miscarriages of Justice Genevieve Lennon,Colin King,Carole McCartney,2018-11-01 The purpose of this book is to honour the influential and wide ranging work of Professor Clive Walker It explores Professor Walker s influence from three perspectives Firstly it

provides a historical reflection upon the development of the law and policy in relation to counter terrorism and miscarriages of justice since the 1970s This historical perspective which is often overlooked is particularly timely 17 years after 9 11 as trends become clearer and historical perspective even more valuable So too with miscarriages of justice while there was considerable public and political scrutiny following high profile miscarriages such as the Birmingham Six Guildford Four and others in the early 1990s today there is much less scrutiny despite significant concern relating to issues such as legal aid and access to justice increasing the potential if not likelihood for miscarriages to occur By including a critical historical perspective this book enables us to learn lessons from the past and to minimise contemporary risks of miscarriages of justice Secondly this book provides a critical analysis of the law and policy as it stands today and its future trajectory Applying Walker s theoretical and analytical contributions to the field the authors focus on pressing contemporary concerns identifying lacunae where relevant as well as the possible probable and preferable future trends Finally the book celebrates and recognises the significant contributions by Walker with each chapter built around one or more of Walker s key works

E-Democracy: Citizen Rights in the World of the New Computing Paradigms Sokratis K. Katsikas,Alexander B. Sideridis,2015-11-30 This book constitutes the refereed proceedings of the 6th International Conference on E Democracy E Democracy 2015 held in Athens Greece in December 2015 The 13 revised full papers presented together with 8 extended abstracts were carefully selected from 33 submissions The papers are organized in topical sections on privacy in e voting e polls and e surveys security and privacy in new computing paradigms privacy in online social networks e government and e participation legal issues The book also contains the extended abstracts describing progress within European research and development projects on security and privacy in the cloud secure architectures and applications enabling citizen to government communication

Racism and Racial Surveillance Sheila Khan,Nazir Ahmed Can,Helena Machado,2021-09-28 Based on the premise that the project of Western Modernity is a structuring element of our societies Racism and Racial Surveillance explores in detail its legacies of coloniality and racialization that interfere in a subtle and perverse way in the current social cultural and political systems Guided by an interdisciplinary methodology the various contributions privilege historical contexts of colonial formation and offer a thorough and intersectional analysis on the specters of coloniality in the upsurge of racism surveillance and criminalization as well as the presence of the phantom of the race in spaces of knowledge production such as that of artistic field forensic genetics and criminal identification Drawing on multi case studies the book then proffers key concepts and historical background that will be of interest to researchers students and professionals in a broad range of areas of social sciences and humanities research including fields such as criminology and policing science and technology studies arts studies literary studies race and ethnic studies and finally memory studies Chapters 8 9 and 10 of this book is available for free in PDF format as Open Access from the individual product page at www.routledge.com It has been made available under a Creative Commons Attribution Non Commercial No

Derivatives 4.0 license *Histories of State Surveillance in Europe and Beyond* Kees Boersma, Rosamunde van Brakel, Chiara Fono, Pieter Wagenaar, 2014-05-09 Does the development of new technology cause an increase in the level of surveillance used by central government Is the growth in surveillance merely a reaction to terrorism or a solution to crime control Are there more structural roots for the increase in surveillance This book attempts to find some answers to these questions by examining how governments have increased their use of surveillance technology Focusing on a range of countries in Europe and beyond this book demonstrates how government penetration into private citizens lives was developing years before the war on terrorism It also aims to answer the question of whether central government actually has penetrated ever deeper into the lives of private citizens in various countries inside and outside of Europe and whether citizens are protected against it or have fought back The main focus of the volume is on how surveillance has shaped the relationship between the citizen and the State The contributors and editors of the volume look into the question of how central government came to intrude on citizens private lives from two perspectives identification card systems and surveillance in post authoritarian societies Their aim is to present the heterogeneity of the European historical surveillance past in the hope that this might shed light on current trends Essential reading for criminologists sociologists and political scientists alike this book provides some much needed historical context on a highly topical issue **Suspect Families** Torsten Heinemann, Ilpo Helén, Thomas Lemke, Ursula Naue, Martin Weiss, 2016-03-03 Suspect Families is the first book to investigate the social political and ethical implications of parental testing for family reunification in immigration cases Drawing on policy documents legal frameworks case study material and interviews with representatives of governmental and non governmental organisation and immigration authorities immigration lawyers geneticists and applicants for family reunification the book analyses the different political regimes and social arrangements in which DNA analysis is adopted for decision making on family reunification in three distinct European countries Austria Finland and Germany Interdisciplinary in scope the book reconstructs the processes institutional logic and the political and administrative practices of DNA testing from a comparative perspective combining theoretical conceptualisation with detailed empirical work to explore the central societal political and ethical issues raised by the use of DNA profiling in the context of immigration policy A ground breaking study of the role played by new technologies in migration decisions Suspect Families will appeal to scholars of sociology political science science and technology studies and surveillance studies

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Genetic Suspects Global Governance Of Forensic Dna Profiling And Databasing**

In a world inundated with displays and the cacophony of instantaneous communication, the profound power and mental resonance of verbal art often disappear into obscurity, eclipsed by the regular assault of noise and distractions. Yet, set within the musical pages of **Genetic Suspects Global Governance Of Forensic Dna Profiling And Databasing**, a interesting work of fictional brilliance that pulses with organic emotions, lies an unique journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this mesmerizing opus instructions viewers on an emotional odyssey, delicately exposing the latent potential and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect their fascinating publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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web once all of the material has solidified at the time indicated by point c the cooling will continue at a rate determined by the heat capacities of the two solids a and b the composition and of course the geometry of the experimental set up by measuring cooling curves for samples of varying composition one can map the entire phase

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