ORGANIZATION OF SCIENTIFIC AREA COMMITTEES (OSAC) FOR FORENSIC SCIENCE
BLOODSTAIN PATTERN ANALYSIS SUBCOMMITTEE

Bloodstain Pattern Analysis Bibliography

Bloodstain Pattern Analysis Research Task Group
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Preface
This bibliography historically began as the Bibliography Project generated by the Scientific Working Group on Bloodstain Pattern Analysis (SWGSTAIN) Research Subcommittee. This list has been updated and will continue to be updated periodically.

Literature related to bloodstain pattern analysis (BPA) was located in scientific journals, newsletters, technical reports, books, web pages, theses, conference papers, law reports and magazines. This is not considered a complete list on the topic of BPA.

The BPA Research Task Group would like to acknowledge initial support for this project from the SWGSTAIN membership, the Midwest Forensics Resource Center, the Federal Bureau of Investigation, the Institute for Environmental Science and Research, Trent University and the Ontario Provincial Police.

For edits or to recommend additional references, contact Stephen Michielsen (Stephen.michielsen@gmail.com).

Bloodstain Pattern Analysis Research Task Group
### Aging Blood

34. Kumar, R.; Sharma, K.; Sharma, V., Bloodstain age estimation through infrared spectroscopy and Chemometric models. Science and Justice 2020, 60 (6), 538-546.


Biomechanics
Blood Substitute


Case Studies

1. The case of Sion Jenkins
25. Gutierrez, S. Bloodstain pattern analysis and the Kennedy assassination.


35. Maberry, J. M. Documentation of Bloodstain Pattern Evidence is Critical in Obtaining Relevant Reconstruction of a Crime Scene. Dallas, Texas, Drug Enforcement Administration, South Central Laboratory.


Classification

Clothing and Fabrics


Environment


Expiration Patterns
10. Haberda (1914). A Special Type of Bloodstain Vienna.

**Firearms**


29. Kohne, J. S. (?). "The Effects of Air Current on High Velocity Impact Spatter."?


47. Settles, G. S., T. P. Grumstrup, L. J. Dodson, J. D. Miller and J. A. Gatto Full-Scale High-Speed Schlieren Imaging of Explosions and Gunshots. PA, Gas Dynamics Lab, Mechanical and Nuclear Engineering Department, Penn State University, PA Transportation Security Lab, US Transportation Security Administration, W.J. Hughes Technical Centre, Atlantic City, NJ.


Fluid Dynamics – Blood


**Fluid Dynamics – other**


Health and Safety


**High-speed Video**

9. Settles, G. S., T. P. Grumstrup, L. J. Dodson, J. D. Miller and J. A. Gatto Full-Scale High-Speed Schlieren Imaging of Explosions and Gunshots. PA, Gas Dynamics Lab, Mechanical and Nuclear Engineering Department, Penn State University, PA Transportation Security Lab, US Transportation Security Administration, W.J. Hughes Technical Centre, Atlantic City, NJ.

**Impact Patterns**

28. Kabaliuk, N., M. C. Jermy, E. Williams, T. L. Laber and M. C. Taylor (2014). "Experimental validation of a numerical model for predicting the trajectory of blood drops in typical crime scene conditions, including droplet deformation and breakup, with a study of the effect of indoor air currents and wind on typical spatter drop trajectories." Forensic Sci Int 245C: 107-120.
29. Kabaliuk, N., M. C. Jermy, E. Williams, T. L. Laber and M. C. Taylor (2014). "Experimental validation of a numerical model for predicting the trajectory of blood drops in typical crime scene conditions, including droplet deformation and breakup, with a study of the effect of indoor air currents and wind on typical spatter drop trajectories." Forensic Sci Int 18: 107-120.

Legal
8. (2001). Makita (Australia) Pty Ltd v Sprowles, NEW SOUTH WALES COURT OF APPEAL.
10. (2002). Velevski v The Queen, High Court of Australia
15. (2005). Hillstead v The Queen, Supreme Court of Western Australia.
17. (2007). Mahmood vs The State of Western Australia, Supreme Court of Western Australia

Non-English

Other


46. MEISARI, S. (2019). BLOODSTAIN IDENTIFICATION OF DIFFERENT BLOOD CONCENTRATION OF DOMESTIC CAT (Felis catus) WITH LEUCOMALACHITE GREEN (LMG) AND TAKAYAMA REAGENT, UNIVERSITAS AIRLANGGA.


68. Skopp, J. (?). "Blood spot analysis."


Other Patterns


Overview Articles and Books


Pathology


**Photography and Documentation**

28. Maberry, J. M. Documentation of Bloodstain Pattern Evidence is Critical in Obtaining Relevant Reconstruction of a Crime Scene. Dallas, Texas, Drug Enforcement Administration, South Central Laboratory.

**Physics and Math**


34. Kumar, R.; Sharma, K.; Sharma, V., Bloodstain age estimation through infrared spectroscopy and Chemometric models. Science and Justice 2020, 60 (6), 538-546.


52. Terminal Velocity Table.


Reconstruction


basis of scene investigation, autopsy findings, GSR analysis and examination of firearms, bullets and cartridge cases." Int J Legal Med 125(4): 479-485.


Reliability


Scientific Theory

Searching and Enhancement
6. Airlie, M.; Chaseling, J.; Krosch, M. N.; Wright, K., An evaluation of infrared photography for


48. Cook, R. (2007). The use of luminol to detect human blood and cow's liver blood testing variables such as substrate, age of stain and human vs cow's liver blood.


93. MEISARI, S. (2019). BLOODSTAIN IDENTIFICATION OF DIFFERENT BLOOD CONCENTRATION OF DOMESTIC CAT (Felis catus) WITH LEUCOMALACHITE GREEN (LMG) AND TAKAYAMA REAGENT, UNIVERSITAS AIRLANGGA.


127. Swander, C. J. and J. G. Sîtes Evaluation of the ABAcard HemaTrace for the forensic identification of human blood


139. Winchester, R. V. and H. Wansbrough Blood Detection By Chemical Methods Biotech-A.


Sequencing


Software


**Target Surface**


Training
26. MacDonell, H. L. "Dr. John H. Gohringer."


Transfer Stains