

JOURNAL OF FORENSIC SCIENCES

2020 Noteworthy Articles



Anthropology

A Review of Bomb Pulse Dating and Its Use in the Investigation of Unidentified Human Remains

Eden Centaine Johnstone-Belford M.F.Sc.; Soren Blau Ph.D.

Criminalistics

Fentanyl Detection Using Eosin Y Paper Assays

Jeremy R. Canfield B.S.; Sandip Agarwal Ph.D.;
Samuel K. Fortener B.S.; Jon E. Sprague Ph.D.

The Utility of Expanded Conclusion Scales During Latent Print Examinations

Kelly E. Carter B.A.; Macgregor D. Vogelsang B.S.;
John Vanderkolk B.A.; Thomas Busey Ph.D.

Validating TrueAllele® Interpretation of DNA Mixtures Containing up to Ten Unknown Contributors

David W. Bauer Ph.D.; Nasir Butt Ph.D.;
Jennifer M. Hornyak M.S.; Mark W. Perlin Ph.D., M.D.

Digital & Multimedia Sciences

Quantifying and Ranking Quality for Acquired Recordings on Digital Video Recorders

Walter E. Bruehs M.S.E.E.; Dorothy Stout M.S.F.S.

General

The 2018 California Wildfires: Integration of Rapid DNA to Dramatically Accelerate Victim Identification

Kim Gin M.S.; Jason Tovar M.D.; Eric J. Bartelink Ph.D.;
Ashley Kendell Ph.D.; Colleen Milligan Ph.D.;
P. Willey Ph.D.; James Wood D.D.S.; Eugene Tan Ph.D.;
Rosemary S. Turingan Ph.D.; Richard F. Selden M.D., Ph.D.

Jurisprudence

Error Rates, Likelihood Ratios, and Jury Evaluation of Forensic Evidence

Brandon L. Garrett J.D.; William E. Crozier Ph.D.; Rebecca Grady Ph.D.

This collection of articles will be available via free access for the months of February and March 2021.

Odontology

Effect of Lower Third Molar Segmentations on Automated Tooth Development Staging Using a Convolutional Neural Network

Rizky Merdietio Boedi D.M.D., M.Sc.; Nikolay Banar M.Sc.;
Jannick De Tobel Ph.D., M.D., D.M.D., M.Sc.;
Jeroen Bertels M.Sc.; Dirk Vandermeulen Ph.D., M.Sc.;
Patrick Werner Thevissen Ph.D., D.M.D., M.Sc.

Pathology/Biology

Cold Case Experiment Demonstrates the Potential Utility of Aquatic Microbial Community Assembly in Estimating a Postmortem Submersion Interval

Sierra F. Kaszubinski B.Sc.; Joseph P. Receveur B.Sc.;
Breanna Wydra M.Sc.; Katelyn Smiles;
John R. Wallace Ph.D.; Nicholas J. Babcock M.Sc.;
Courtney R. Weatherbee M.Sc.; Mark Eric Benbow Ph.D.

The Death of Freddie Gray and Its Impact on Homicides in Baltimore and Maryland

Sarah Sweet; Gabriel Alexander; Russell Alexander M.D.

Psychiatry & Behavioral Science

Homicidal Ideation and Forensic Psychopathology: Evidence From the 2016 Nationwide Emergency Department Sample (NEDS)

Jason T. Carbone Ph.D.; Katherine J. Holzer M.S.W.;
Michael G. Vaughn Ph.D.; Matthew DeLisi Ph.D.

Questioned Documents

Use of an Automated System to Evaluate Feature Dissimilarities in Handwriting Under a Two-Stage Evaluative Process

Cami Fuglsby M.S.; Christopher Saunders Ph.D.;
Danica M. Ommen Ph.D.; Michael P. Caligiuri Ph.D.

Toxicology

A Census of Medicolegal Death Investigation in the United States: A Need to Determine the State of our Nation's Toxicology Laboratories and Their Preparedness for the Current Drug Overdose Epidemic

Jeri D. Roper-Miller Ph.D.;
Hope M. Smiley-McDonald Ph.D.;
Stephanie A. Zimmer Ph.D.; Katherine M. Bollinger M.S.

