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No Evidence for Interference of Hematoxylin and Eosin (HE ...

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No Evidence for Interference of **Hematoxylin and Eosin (HE) Staining** in **DNA Testing**: Utility of **DNA Extraction** from **HE-Stained Archival Tissue Sections** ... With regard to the influence of histochemical **staining** on **downstream molecular** assays, ... Our data support feasibility of **DNA extraction** from **HE-stained tissue** sections for routine clinical ...

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Author: Teppei Morikawa, Kaori Shima, Aya Kuch...

Publish Year: 2012

[PDF] Stained Archival Tissue Sections NIH Public Access ...

https://www.researchgate.net/profile/Zhi_Rong_Qian/publication/227176076_No_Evidence...

downstream molecular assays. To evaluate an influence of **hematoxylin and eosin (HE) staining** on **DNA** testing, we isolated **DNA** from 10 unstained, 10 **hematoxylin-stained**, 10 **eosin-stained** or

[PDF] DNA Extraction From Archived Slides: Analysis and Use in ...

trace.tennessee.edu/cgi/viewcontent.cgi?article=3507&context=utk_gradthes

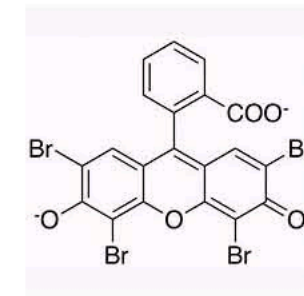
I am submitting herewith a thesis written by Jennifer Lee Millsaps entitled "**DNA extraction from archived slides: analysis** and use in current forensic identification." I have examined the final electronic copy of this thesis for form and content and recommend that it be accepted in partial fulfillment of the requirements for the degree of

A simple and cost-effective method of DNA extraction from ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4110377>

Jul 07, 2014 · Background: Isolating genomic **DNA** (gDNA) from formalin-fixed, paraffin-embedded

Eosin

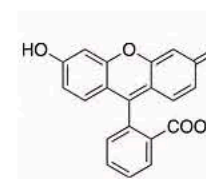
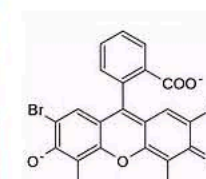


Eosin is the name of several fluorescent acidic compounds which bind to and form salts with basic, or eosinophilic, compounds like proteins containing

amino acid residues such as arginine and lysine, and stains them dark red or pink as a result of the actions of bromine on fluorescein. In addition to staining proteins in the cytoplasm, it can be used to stain collagen and muscle fibers for examination under the microscope. Structures that stain readily with eosin are termed eosinophilic. In the field of histology, Eosin Y is the form of eosin used most often as a histologic stain.



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3 Name of Journal: *World Journal of Methodology*
Manuscript NO: 50615
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Basic Study

DNA extraction from archived hematoxylin and eosin stained tissue slides for downstream molecular analysis

Ramesh PS *et al.* DNA from tissue slides for molecular analysis

Pushkal Sinduvadi Ramesh, Venkatesh Madegowda, Suprith Kumar, Shailashree Narasimha, Parichay S R, Nandini Nandish Manoli, Devananda Devegowda

Abstract

BACKGROUND

Histopathologically stained archived tissue slides are stored in the hospital archives for years to decades. They are the largest available source of biological materials and are potentially useful resource which could be used for retrospective epidemiological studies. DNA recovered from the slides could be used for several downstream molecular processes including polymerase chain reaction, single nucleotide polymorphism analysis and whole genome sequencing. The DNA from these slides can be utilized to compare gene signatures of normal and diseased tissues. However, extraction of high quality DNA from archived stained hematoxylin and eosin (H&E) slides still remains challenging.

AIM

To standardize a new protocol for extracting DNA from archived H&E stained tissue slides for further molecular assays.

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No Evidence for Interference of **Hematoxylin and Eosin (HE) Staining** in **DNA Testing**: Utility of **DNA Extraction** from **HE-Stained Archival Tissue** Sections ... With regard to the influence of histochemical **staining** on **downstream molecular** assays, ... Our data support feasibility of **DNA extraction** from **HE-stained tissue** sections for routine clinical ...

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Author: Teppei Morikawa, Kaori Shima, Aya Kuchi...

Publish Year: 2012

Enhancement of Pathologist's Routine Practice: Reuse of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5070629>

However, the reuse of fixed and **stained** biospecimens as **DNA** source is not a common routine practice worldwide and, thus, indicates the need of studies to investigate the feasibility of extracting **DNA** from already immunohistochemistry (IHC) FFPE-**stained slides** and its possible reuse in subsequent **downstream molecular** analyses.

DRAQ5 and Eosin ('D&E') as an Analog to Hematoxylin and ...

journals.plos.org/plosone/article?id=10.1371/journal.pone.0165530 ▾

The labor-intensiveness and destructiveness of traditional histopathology preparations, like formalin-fixed, paraffin-embedded processing or frozen section **analysis**, is due to the need to deposit a thin section of **hematoxylin and eosin (H&E) stained tissue** on a **slide** to enable it to be evaluated by light-transmission microscopy.

Cited by: 11

Author: Katherine N. Elfer, Andrew B. Sholl, Mei ...

Publish Year: 2016

No Evidence for Interference of Hematoxylin and Eosin (HE ...

europepmc.org/articles/PMC3383644

With regard to the influence of histochemical **staining** on **downstream molecular** assays, some previous studies have shown interfering effects of histochemical **staining**, especially **hematoxylin stain**, 40-40 while another study failed to show significant differences in PCR amplification between **DNA**