



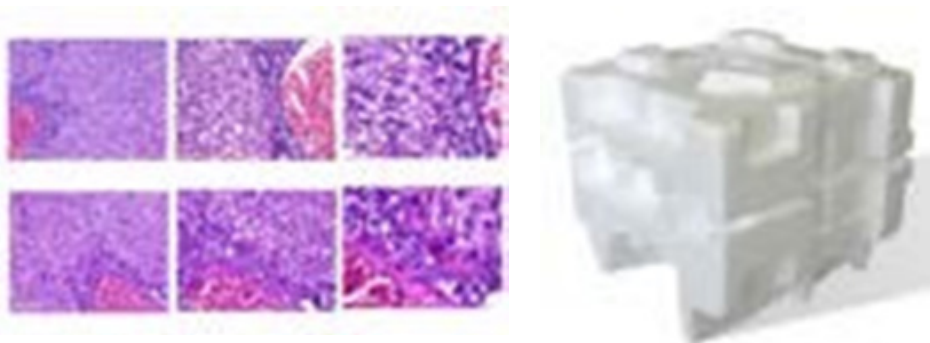
A novel mounting medium preserving stained tissue slides: in comparison with DPX©

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Abstract

The mounting medium is a solution used to adhere the coverslip to the slide to preserve and support stained tissue sections. The most popular mounting media used in laboratories for histopathology is a mixture of Distyrene (a polystyrene), a Plasticiser (tricresyl phosphate), and Xylene called DPX mounting medium that preserves stains and dries quickly. In this study a novel mixture was used replacing DPX; a mixture of extra pure benzene and Expanded Polystyrene Foam (EPF) which mixed together forming adhesive material used to adhere the coverslip with the clean, stained tissue slides, then examined under light microscopy by using different objective lenses magnification in comparison with DPX which cover the same stained tissue sections. Stored for one year to monitor the fading effect of the new mountant on the stained tissue sections. In conclusion Getting the same results of DPX, specially is a simple mixture can be made by any technician in any laboratory for histopathology as well as the time elapsed for drying of the new mounting medium is much more rapid in comparison with DPX and also the spread of EPF in many daily use product make the mixture also available and recycled in a good way as EPF used in floatation devices, egg cartons, sandwich and hamburger boxes, coffee cups and plates. Finally when I made comparison between this new mixture and DPX using the same tissues, the great results was the same, also when the colours has been measured by image analyser software to the record the difference.



Biography

Nesreen M. Safwat, is a versatile writer and researcher that published extensively in specialized field (Pathology), (2006) with general grade: Very good with degree of honor ranking: second over my class. Master degree in Pathology (2011) and PhD in pathology (2015) both from Faculty of Veterinary Medicine, Beni-Suef University. Her experience as A lecture of pathology in Pathology Department, Faculty of Veterinary Medicine, Beni-Suef University. Her main interest pathology field; Oncopathology, surgical pathology, orthopedic pathology, diagnostic pathology of some viral and bacterial organisms, anatomical pathology, inventing some new techniques aiding in histopathology laboratories all over the world.



2nd World Congress on Pathology and Clinical Practice
October 30, 2020

Citation: Nesreen M. Safwat, A novel mounting medium preserving stained tissue slides: in comparison with DPX©, Pathology Congress 2020, 2nd World Congress on Pathology and Clinical Practice, October 30, 2020, Page No-05