Gmail

Dr. Deepa Jose <deepa.shoby@gmail.com>

iNOS discussion

1 message

BIOGENIX RESEARCH CENTER <biogenixresearchcenter@gmail.com> Fri, Jul 27, 2018 at 12:12 PM
To: Mrs shoby <deepa.shoby@gmail.com>

The role of Cyclo oxygenase and nitric oxide synthase in inflammation and immune response by prostaglandin and nitric oxide biosynthesis is well documented. Inhibition of iNOS is supposed to contribute to decrease in NO production attributing to anti inflammatory activity (Yang et al, 2009). Change is absorbance was used as a measurement of iNOS activity and from our results it can be observed that with increase in concentration of extracts there is decrease in iNOS activity . SC and PLX produced 82.2% and 80% inhibition of iNOS activity when compared with control whereas 1:1 effectively reduced the iNOS activity to 89%. The results suggests potent inhibition of iNOS by 1:1 which can contribute to inhibition of NO production

(Yang E-J, Yim E-Y, Song G, Kim G-O, Hyun C-G. Inhibition of nitric oxide production in lipopolysaccharide-activated RAW 264.7 macrophages by Jeju plant extracts. *Interdisciplinary Toxicology*. 2009;2(4):245-249. doi:10.2478/v10102-009-0022-2.

Thanks & Regards

Rajesh Ramachandran
Director

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Sl No	Description	Qty	Price	Total
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SUPER OXIDE DISMUTASE

PRINCIPLE

The enzyme super oxide dismutase catalyzes the dismutation of superoxide in to oxygen and h2o2. As such, it is an important antioxidant defence in nearly all cells exposed to oxygen.

PROCEDURE

50µl of tissue samples were added to the reaction mixture containing 50mM phosphate buffer(7.8), 45µM methionine, 5.3mM riboflavin and 84µM potassium ferric cyanide. The tubes were then incubated at 25^0C for 10 minutes and the absorbance was read on spectrophotometer at 600nm.

CALCULATION

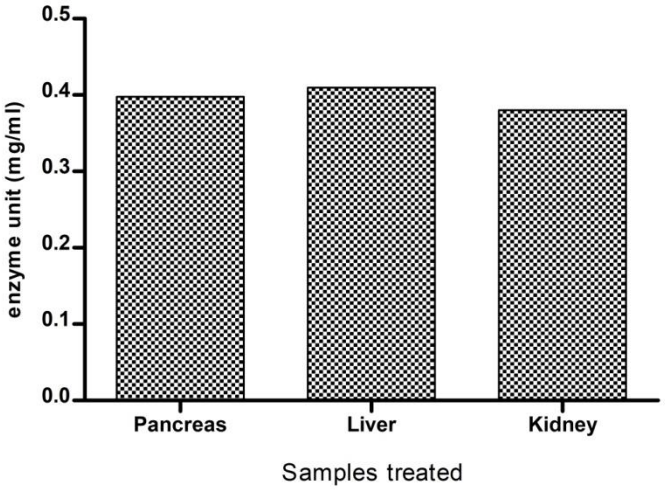
Percentage of Inhibition = ((Control-Test)/Control) X 100

Enzyme Units = Percentage Inhibition/ 50

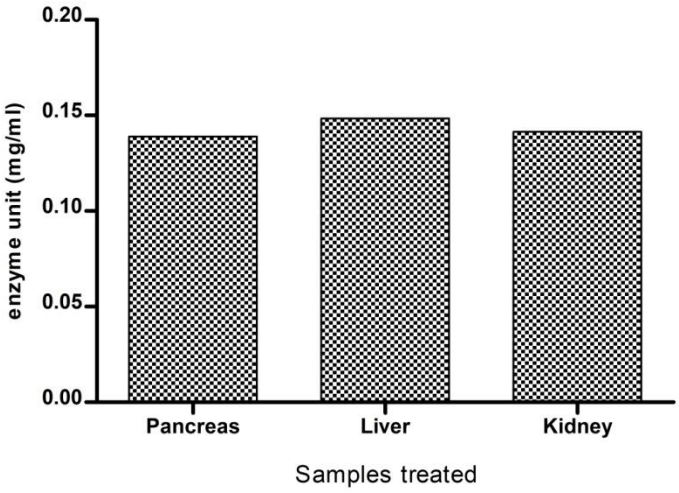
RESULTS

Sample code	Absorbance	Percentage Inhibition	Enzyme Units	Enzyme Units/mg of protein
normal control A1				
Pancreas	0.1524	70.95483	1.419097	0.397895
Liver	0.1148	78.12083	1.562417	0.409803
Kidney	0.1627	68.9918	1.379836	0.380327
Negative control NC1				
Pancreas	0.4014	23.49914	0.469983	0.138969
Liver	0.3787	27.82542	0.556508	0.14836
Kidney	0.3901	25.65275	0.513055	0.141414
Standard S1				
Pancreas	0.1687	67.84829	1.356966	0.374023
Liver	0.2191	58.24281	1.164856	0.378899
Kidney	0.1987	62.13074	1.242615	0.331269
High dose HT1				
Pancreas	0.2987	43.07223	0.861445	0.269423

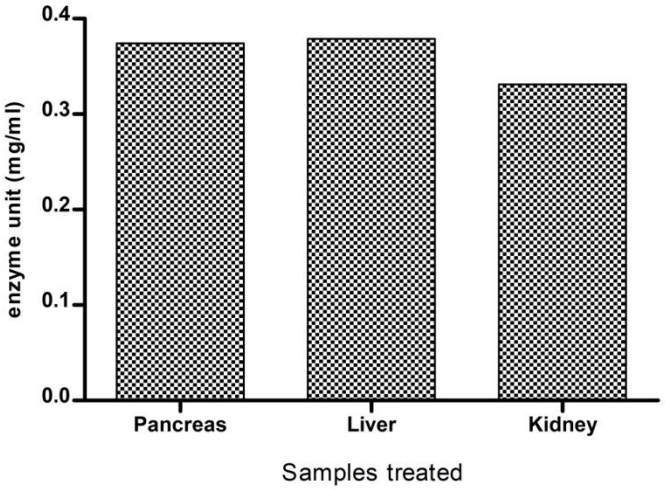
Liver	0.2745	47.68439	0.953688	0.310211
Kidney	0.214	59.21479	1.184296	0.343926
Low dose LT1				
Pancreas	0.3745	28.62588	0.572518	0.143231
Liver	0.3214	38.74595	0.774919	0.210031
Kidney	0.3004	42.74824	0.854965	0.23972



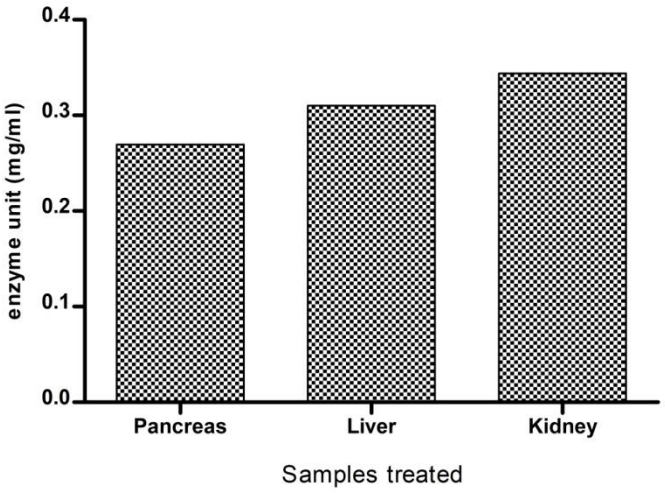
Normal control A1



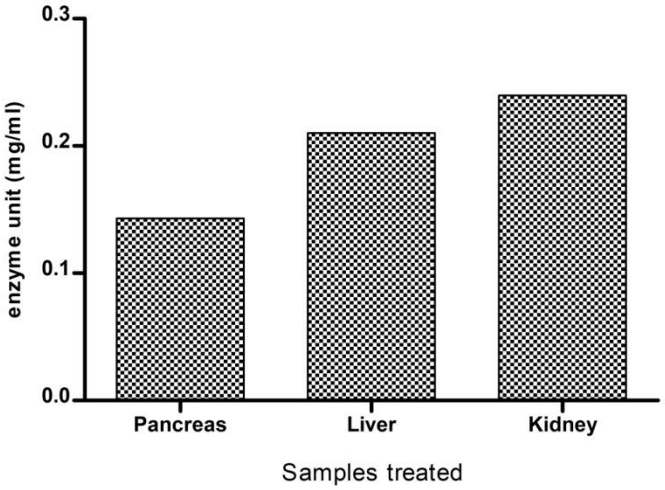
Negative control NC1



Standard S1



High dose HT1



Low dose LT1

REFERENCE

H. P. Misra and I. Fridovich, Superoxidedismutase: “positive” spectrophotometric assays, Anal. Biochem., 1977, 79, 553–560.

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Gmail **Anit joji George <ajgparappallil.16@gmail.com>**

Anticancer study results; Thesis 2021; Anit Joji George

2 messages

Anit joji George <ajgparappallil.16@gmail.com> Thu, Aug 24, 2023 at 11:38 AM
To: fels@nirmalacp.org
Bcc: Fels Saju <fels.academics@gmail.com>, Fels Saju <felssaju@gmail.com>

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Anit Joji George

Fwd: Phase contrast images - Bromalein.eml

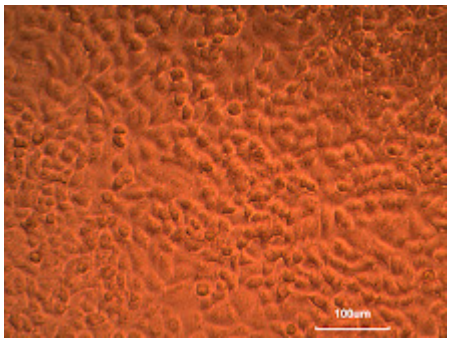
Phase contrast images loaded.eml

---------- Forwarded message ----------
From: Biogenix research center <biogenixresearchcrw@gmail.com>
To: ajgparappallil.16@gmail.com
Cc:
Bcc:
Date: Wed, 27 Oct 2021 11:47:06 +0530
Subject: Results

Dear sir,

Please find the attached results and phase contrast images of control cells

4 attachments



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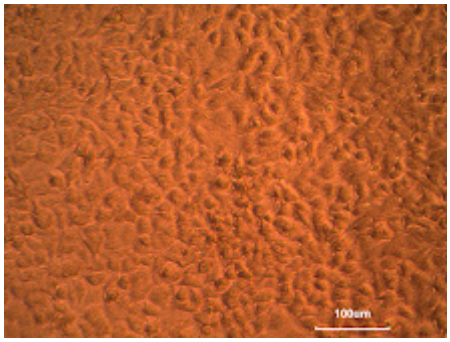
4140K



CONTROL2.jpg
4149K

ANTICANCER MCF-7.docx
175K

Results.eml
11586K

Fels Saju <fels@nirmalacp.org> Thu, Aug 24, 2023 at 11:50 AM
To: Anit joji George <ajgparappallil.16@gmail.com>

Thank you anitt

[Quoted text hidden]

> [Quoted text hidden]
> ---------- Forwarded message ----------
> From: Biogenix research center <biogenixresearchcrw@gmail.com>
> To: ajgparappallil.16@gmail.com
> Cc:
> Bcc:
> Date: Wed, 27 Oct 2021 11:47:06 +0530
> Subject: Results
>
> Dear sir,
>
> Please find the attached results and phase contrast images of control cells