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^{99m}Tc-MIBI

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^{99m}Tc -MIBI :

^{99m}Tc

:

^{99m}Tc -MIBI

Micronucleus assay

Paired t- test

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/ ± / / ± /

^{99m}Tc -MIBI

^{99m}Tc

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^{99m}Tc -MIBI

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(DNA

DNA (DNA

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^{99m}Tc

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^{99m}Tc

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^{99m}Tc -MIBI

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(Sequential)

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DNA

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(

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(DNA

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^{99m}Tc -MIBI

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(Sigma (blind)

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)

(Biosera -

RPMI

Viability

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Hanks

g ()

(Sigma)

Viability

(

(Gibco)

(%

RPMI) Gibco

%

(

^{99m}Tc -MIBI

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set up

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(%) . / /) ()

(%)

(%)

/

paired t-test

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-(P < /)

SPSS 15

^{99m}Tc -MIBI

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paired t-test

independent samples t-test

P- value < /

/ ± / / ± /

/ ± / / ± /

(%))

/ ± /

((%)

/ ± /

-

/ ± /

-

()

% ± /

(/ ± /)

.(P > /)

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^{99m}Tc -MIBI

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/ ± /

/ ± /

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% / ± /

% / ± /

() ^{99m}Tc -MIBI

()
 ^{99m}Tc -HMPAO

()

^{99m}Tc -HMPAO

()

^{99m}Tc -HMPAO

^{99m}Tc -MIBI

Taibi

()

() ex vivo

in vivo

()

(-)

FISH

^{99m}Tc

in vitro

()

in vivo

FISH

blind

 ^{99m}Tc -MIBI

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