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C Lindholm, D Stricklin, A Jaworska... - Radiation ..., 2010 - rrjournal.org

Abstract The study was undertaken to establish a dose calibration curve for a practical PCC ring assay and to apply it in a simulated mass casualty accident. The PCC assay was validated against the conventional dicentric assay. A linear relationship was established ...

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[Biodosimetry for high dose accidental exposures by drug induced premature chromosome condensation \(PCC\) assay](#)

S Balakrishnan, N Bhat, K Anjaria - Mutation Research/Genetic ..., 2010 - Elsevier

The conventional dicentric assay does not provide an accurate dose estimate in the case of accidental exposure to ionizing radiation above 6Gy due to mitotic delay and poor mitotic index. The present study aims to establish a simple and rapid dose assessment technique ...

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[Radioprotective effect of lycopene on chromosomal aberrations \(CAs\) induced by gamma radiation in human lymphocytes.](#)

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K Cavusoglu, E Yalcin - 2009 - imsear.hellis.org

The present study was carried out to evaluate the radioprotective role of lycopene on chromosomal aberrations (CAs) induced by gamma (g) radiation in human lymphocytes. For this purpose, we used in vitro dose-effect relationship, and correlate these data with ...

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[Prematurely condensed chromosome rings after neutron irradiation of human lymphocytes](#)

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Al Lamadrid, JE GonzáLez, O García... - Journal of radiation ..., 2011 - jrr.oxfordjournals.org

Abstract Calibration curves for fission spectrum neutrons and other high LET radiations are scarce in cytogenetic dosimetry and particularly for Prematurely Condensed Chromosome Rings (PCC-ring). Here we analyzed the behavior of the PCC-ring frequency and PCC ...

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[Prematurely condensed chromosome fragments in human lymphocytes induced by high doses of high-linear-energy-transfer irradiation](#)

ZZ Wang, WJ Li, DJ Zhi, QX Gao, Y Qu... - ... /Genetic Toxicology and ..., 2009 - Elsevier

This study provides a useful biodosimetry protocol for radiation accidents that involve high doses of heavy particle radiation. Human peripheral blood lymphocytes (PBLs) were irradiated in vitro with high doses (5–50Gy) of charged heavy-ion particles (carbon ions, at ...

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[^ 60Coy 线超大剂量照射人离体血早熟凝集染色体环的剂量-效应曲线](#)

姚波, 李玉芳, 刘广贤, 黄珊, 蒋本荣... - 中华放射医学与防护 ..., 2009 - 万方数据资源系统

摘要: 目的建立超大剂量γ线离体照射后人血淋巴细胞早熟凝集染色体环(PCC-R)的剂量-效应曲线. 方法外周静脉血样采自3名健康男性, 经60Co γ线(剂量率2.35 Gy/min)照射0, 1, 3, 5, 8, 10, 13, 16, 20, 26和30 Gy. 于37℃恒温箱培养48 h, 收获前1 h加入冈田酸以诱导产生 ...

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[\[LIBRO\] Development and application of the PCC biodosimetry method in emergency preparedness](#)

D Stricklin, C Lindholm, A Jaworska, NS Authority... - 2008 - 130.226.56.153

Abstract A method for biological assessment of radiation dose for specific application in emergency preparedness was developed. Premature chromosome condensation (PCC) was investigated to provide a potentially faster means of analysis and the ability to assess ...

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[Ionizing radiation biomarkers for potential use in epidemiological studies](#) [researchgate.net \[PDF\]](#)

E Pernot, J Hall, S Baatout, MA Benotmane... - ... Research/Reviews in ..., 2012 - Elsevier

Ionizing radiation is a known human carcinogen that can induce a variety of biological effects depending on the physical nature, duration, doses and dose-rates of exposure. However, the magnitude of health risks at low doses and dose-rates (below 100mSv and/ ...

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[The use of caffeine to assess high dose exposures to ionising radiation by dicentric analysis](#) [researchgate.net \[PDF\]](#)

M Pujol, R Puig, MR Caballín, L Barrios... - Radiation protection ..., 2012 - NTP

Abstract Dicentric analysis is considered as a 'gold standard' method for biological dosimetry. However, due to the radiation-induced mitotic delay or inability to reach mitosis of heavily damaged cells, the analysis of dicentrics is restricted to doses up to 4–5 Gy. For higher ...

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[\[PDF\] BIODOSIMETRÍA PARA SOBREEXPOSICIONES CON ALTAS DOSIS, UTILIZANDO CONDENSACIÓN PREMATURA DE CROMOSOMAS \(PCC\) ...](#) [sbpr.org.br \[PDF\]](#)

A Radl, MR Taja, CE Sapienza, R Bubniak, M Deminge... - sbpr.org.br

RESUMEN Se ha observado que las víctimas de sobreexposiciones accidentales a altas dosis muestran mejores posibilidades de supervivencia si reciben un tratamiento médico temprano. El presente trabajo tiene como objetivo describir la metodología que se llevó a ...

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CG Carbajal, CA Maldonado - [inin.gob.mx](#)

El análisis de cromosomas dicéntricos es a la fecha el mejor y mundialmente reconocido indicador de daño causado por radiación ionizante. Sin embargo, para estimar la dosis de manera segura es necesario analizar varios cientos de células por individuo, lo cual ...

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[HTML] [Nuevas curvas de calibración para la dosimetría biológica en Cuba](#)

[sld.cu](#) [HTML]

Al Lamadrid Boada, T Mandina Cardoso... - [Nucleus](#), 2011 - [scielo.sld.cu](#)

RESUMEN Se muestran 11 curvas dosis respuesta in vitro obtenidas por primera vez en el país para tres indicadores biológicos: anillos en cromosomas prematuramente condensados (PCC-R) índice PCC; focos gamma H2AX (-H2AX), todos ellos en linfocitos ...

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[PDF] [3 Effect studies session](#)

[nsfs.org](#) [PDF]

C Lindholm, A Jaworska, D Stricklin - [Nordic society for radiation protection ...](#), 2008 - [nsfs.org](#)

Abstract Biological dosimetry is presently performed in the Nordic countries in two laboratories: at STUK-Radiation and Nuclear Safety Authority and in the last few years also at FOI, The Swedish Defence Research Agency. Both Norway and Denmark have an ...

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[Suitability of scoring PCC rings and fragments for dose assessment after high-dose exposures to ionizing radiation](#)

R Puig, L Barrios, M Pujol, MR Caballín... - [... /Genetic Toxicology and ...](#), 2013 - [Elsevier](#)

Abstract Assessment of radiation doses through measurement of dicentric chromosomes may be difficult due to the inability of damaged cells to reach mitosis. After high-dose exposures, premature chromosome condensation (PCC) has become an important ...

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[LIBRO] [Emergency preparedness exercise for biological dosimetry-BIOPEX \(2008\)](#)

[130.226.56.153](#) [PDF]

C Lindholm, W Paile, D Stricklin, A Jaworska - 2009 - [130.226.56.153](#)

Abstract As a continuation to the NKS-funded BIODOS project, the BIOPEX project has aimed at testing and validation of the newly established dose calibration curve for PCC rings, a specific chromosome aberration for use in biodosimetry in large casualty ...

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[PDF] [Biodosimetry Application in Emergency Preparedness BIODOS Progress Report for 2006](#)

[gr.is](#) [PDF]

D Stricklin, C Lindholm, A Jaworska - [gr.is](#)

Executive Summary The Swedish Defence Research Agency, Finnish Radiation and Nuclear Safety Authority, and Norwegian Radiation Protection Authority have worked together to optimize a method for biological assessment of radiation dose for specific ...

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[Rapid assessment of high-dose radiation exposures through scoring of cell-fusion-induced premature chromosome condensation and ring chromosomes](#)

Al Boada, IR Aguilera, GI Terzoudi, JE Mesa... - ... /Genetic Toxicology and ..., 2013 - Elsevier

Abstract Analysis of premature chromosome condensation (PCC) mediated by fusion of G0-lymphocytes with mitotic CHO cells in combination with rapid visualization and quantification of rings (PCC-Rf) is proposed as an alternative technique for dose assessment of ...

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[Assessment of simulated high-dose partial-body irradiation by PCC-R assay](#) oxfordjournals.org [\[HTML\]](#)

I Romero, O García, Al Lamadrid... - Journal of radiation ..., 2013 - jrr.oxfordjournals.org

Abstract The estimation of the dose and the irradiated fraction of the body is important information in the primary medical response in case of a radiological accident. The PCC-R assay has been developed for high-dose estimations, but little attention has been given to ...

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[VALIDATION OF WHOLE CHROMOSOME PAINTING BY CYTOGENETIC AND MOLECULAR TECHNIQUES.](#) inflibnet.ac.in [\[PDF\]](#)

MSH Kaur - 2008 - ir.inflibnet.ac.in

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[\[PDF\] Premature chromosome condensation \(PCC\) assay for dose assessment in large radiological accidents](#) irpa2010europe.com [\[PDF\]](#)

C Lindholm, D Stricklin, A Jaworska... - Session 13: Medical ... - irpa2010europe.com

Abstract A dose calibration curve for a practical PCC-ring assay was established and applied in a simulated, mass casualty accident. The PCC assay was validated against the conventional dicentric assay. A linear relationship was established for PCC rings after Co- ...

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[A Modified Protocol for Accurate Detection of Cell Fusion-Mediated Premature Chromosome Condensation in Human Peripheral Blood Lymphocytes](#)

Y Suto, M Akiyama, T Gotoh, M Hirai - Cytologia, 2013 - jlc.jst.go.jp

When interphase cells are fused with mitotic cells, loosely distributing chromatins in nuclei are induced to form prematurely condensed chromosomes. In this paper we report a modified protocol to unequivocally detect prematurely condensed chromosomes in human ...

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[\[PDF\] NKS-B BIODOS: Biodosimetry application in emergency preparedness; NKS-B BIOPEX: Emergency preparedness exercise for biological dosimetry](#)

[dtu.dk](#) [\[PDF\]](#)C Lindholm, W Paile, D Stricklin... - Joint Summary Seminar ..., 2009 - orbit.dtu.dk

Abstract The BIODOS and BIOPEX studies have aimed at establishing a dose calibration curve for a feasible PCC-ring assay and to apply it in a simulated, mass casualty accident. The PCC assay was validated against the conventional dicentric assay. A linear ...

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[\[LIBRO\] Biological dosimetry following exposure to neutrons in a criticality accident](#) [nks.org](#) [\[PDF\]](#)

C Lindholm, A Wojcik, A Jaworska - 2011 - nks.org

Abstract The aim of the BIONCA project was to implement cytogenetic techniques for biodosimetry purposes in the Nordic countries. The previous NKS-funded biodosimetry activities (BIODOS and BIOPEX) concentrated on experiments using gamma-irradiation ...

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[\[PDF\] Shortening of culture time in Conventional Cytogenetic Dosimetry](#)

[irpa12.org.ar](#) [\[PDF\]](#)Al Lamadrid, JE González, I Romero, O García... - irpa12.org.ar

Abstract. Conventional cytogenetic dosimetry based on chromosome aberration in metaphases is a "gold standard" of biodosimetry techniques for radiation dose assessment. This method is laborious and time consuming, the culturing process requires about 48 ...

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[\[PDF\] Deep Insight Section](#)

[nih.go.jp](#) [\[PDF\]](#)E Gotoh - <http://AtlasGeneticsOncology.org>, 2013 - nih.go.jp

Abstract More than one year has past since the hazardous nuclear fuel core melting out accident at Fukushima No. 1 Nuclear Energy Plant by attacking giant earthquake and following tsunami on 11th March 2011. This nuclear plant accident is so obviously the ...

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[\[CTAS\] Evaluation of ionizing radiation exposure for biodosimetry validation of whole chromosome painting](#)

[210.212.129.140](#) [\[PDF\]](#)SH Kaur - 2012 - 210.212.129.140

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[\[PDF\] Biological Dosimetry of Ionizing Radiation](#)

[intechopen.com](#) [\[PDF\]](#)

[A Vaurijoux, G Gruel, S Roch-Lefèvre, P Voisin - cdn.intechopen.com](#)

A worsening of the accidental hazards linked to the use of ionizing radiation is currently being observed for four reasons. First, the increasing need for radiation sources in numerous industrial applications (food sterilization, construction, engineering...) leads to ...

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[\[CITAS\] Calyculin A 诱导早熟染色体与低剂量电离辐射剂量-效应关系](#)

[信亚周, 孙洪强, 马娅, 卢峰, 侯殿俊, 李洁清, 刘伟 - 中国辐射卫生, 2012 - cqvip.com](#)

目的探讨Calyculin A 诱导早熟染色体凝集技术作为低剂量电离辐射生物剂量计的可行性. 方法取健康成年人的抗凝外周静脉血, 用X 射线分别以0, 0.1, 0.25, 0.5, 0.75 和1.0 Gy 照射. 照射后将血样接种于RPMI1640 培养基中, 于37℃, 5% CO₂ 恒温培养箱内培养48h, 当培养 ...

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[马俊杰, 李杨, 彭瑞云 - 军事医学科学院院刊, 2009 - 万方数据资源系统](#)

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[\[CITAS\] Ring Chromosome Aberrations in Human lymphocytes Induced by Carbon Ions Irradiation](#)

[WZLWX Xiaoting, WBZBJ Xigang... - 近代物理研究所和兰州重 ..., 2009 - cqvip.com](#)

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[Rapid assessment of high-dose radiation exposures through scoring of cell-fusion-induced premature chromosome condensation and ring chromosomes](#)

[Al Boada, IR Aguilera, GI Terzoudi, JE Mesa... - ... /Genetic Toxicology and ...](#), 2013 - Elsevier

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[Chromosome aberrations in normal human fibroblasts analyzed in G₀/G₁ and G₂/M phases after exposure in G₀ ...](#)

[C Liu, T Kawata, Y Furusawa, G Zhou, K Inoue... - ... /Genetic Toxicology and ...](#), 2013 - Elsevier

... 6]; Al Lamadrid, JE Gonzalez, O. Garcia, P. Voisin, L. Roy; **Prematurely condensed chromosome rings after neutron irradiation of human lymphocytes.** J Radiat Res, 52 (2011), pp. 531–535. ...

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... Int J Radiat Biol. 2005; 81(1): 33-40. 6. LAMADRID AI, GONZALEZ JE, GARCIA O, et. al.

Prematurely condensed chromosome rings after neutron irradiation of human lymphocytes. J. Radiat. Res. 2011. In press. 7. LÖBRICH M, RIEF N, KÜHNE M, et al. ...

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