Physical and Chemical Exposure Unit

PUBLICATIONS - 2002 to 2006

Edited by
Jacqueline Ryder, Dimitrios Kotzias
The mission of the IHCP is to provide scientific support to the development and implementation of EU policies related to health and consumer protection.

The IHCP carries out research to improve the understanding of potential health risks posed by chemical, physical and biological agents from various sources to which consumers are exposed.

European Commission
Joint Research Centre
Institute for Health and Consumer Protection

Contact information
Address: Ms. J. Ryder, JRC/IHCP/PCE, TP 260, I-21020 ISPRA (VA)
E-mail: jacqueline.ryder@jrc.it
Tel.: +390332 785087
Fax: +390332 785930

http://ihcp.jrc.ec.europa.eu/
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<tr>
<td>Report Prepared by:</td>
<td>Jacqueline RYDER</td>
<td>17/01/2008</td>
</tr>
<tr>
<td>Reviewed by: (Scientific level)</td>
<td>Dimitrios KOTZIAS</td>
<td>18/1/2008</td>
</tr>
<tr>
<td>Approved by: (Head of Unit)</td>
<td>Dimitrios KOTZIAS</td>
<td>18/1/2008</td>
</tr>
<tr>
<td>Final approval: (IHCP Director If appropriate)</td>
<td>Elke ANKLAM</td>
<td>24/1/2008</td>
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Foreword

The Physical and Chemical Exposure Unit’s mission is to support Commission services by providing scientific understanding, information and risk assessment tools for evaluating human exposure to chemicals and environmental stressors.

Several scientific research groups merged in 2002 to form the PCE Unit within the Institute for Health and Consumer Protection. Our research activities in evaluating European population exposure to chemicals and physical stressors support Commission services and policy makers.

The Unit’s activities have been reviewed in preparation for the 7th Framework Programme (2007-2013), taking into consideration the Environment and Health Strategy and Action Plan and the Consumer Strategy Policy. The review has lead to the definition of three scientific actions which form the structure of our work in 2007:

- EXPO-Health – Human exposure to environmental stressors and health effects; contributing to the estimation of the risk of human exposure to chemicals and other environmental stressors through different routes (food and water intake, air inhalation, skin contact, etc.).
- EXPO-Tools – Integrated exposure assessment and modelling; for the generation of validated data on exposure from chemicals in consumer and industrial products in order to support the assessment of risk to man and the environment.
- MAST – Multipurpose Advanced Spectroscopic Techniques; will apply advanced spectroscopic technologies, including Nuclear Magnetic Resonance (NMR), High Resolution Mass Spectrometry (HRMS), and Isotope Ratio Mass Spectrometry (IRMS), to provide scientific data to support European Policies in the areas of Consumer Protection and Environment and Health. The research work will produce analytical data collected in European reference databanks of interest for anti-fraud, illicit drugs profiling, food authenticity, human biomonitoring, Metabonomics and Metabolomics.

This collection of publications documents the first five years of our research activities leading up to the 7th Framework Programme, which began in January 2007. It is divided into two parts: the publications divided by subject matter in Part 1 and, in Part 2, all the publications divided by year.

January 2007

Dimitrios Kotzias
Unit Head
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Contribution to Conference


SCHWELA, D., Regulatory Frameworks for Monitoring Air Pollution. Thematic Planning Meeting on Monitoring Air Pollution, IAEA, 7-11 June 2004, Vienna, Austria - ORA 65102


KOTZIAS, D., GEISS, O., TIRENDI, S., **Valutazione dell’Esposizione Totale: Benzene e Formaldeide nei Paesi Europei.** La Prevenzione Primaria dei Tumori di Origine Industriale e Ambientale, IST (Ist. Naz. per la Ricerca sul Cancro), 7-9 November 2004, Genova, Italy - ORA 65689

KOTZIAS, D., **The INDOORTRON Facility.** Convegno su Tecniche e Materiali Innovativi in Edilizia per Abbattere l’Inquinamento in Città, FAST, 25 May 2004, Milano, Italy - ORA 65099

KOTZIAS, D., **Photo-Assisted Degradation of Organic Pollutants in Water Solutions in the Presence of Titanium Dioxide.** Convegno su Tecniche e Materiali Innovativi in Edilizia per Abbattere l’Inquinamento in Città, FAST, 25 May 2004, Milano, Italy - ORA 65098


KOTZIAS, D., **Human Exposure Research - Needs and Approaches.** 12th Intern. Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region, MESAEP, SECOTOX, 4-8 October 2003, Antalya, Turkey - ORA 64243


KOTZIAS, D., **What Policy Support Can Key Organisations Provide? The Role of the JRC.** Cocktail Effect in Risk Assessment, SEPA, EC-JRC, EEA, 27 May 2002, Bruxelles, Belgium - ORA 62853

BRUINEN DE BRUIN, Y., HANNINEN, O., CARRER, P.*, SCOTTO DI MARCO, G., KEPHALOPOULOS, S., CAVALLO, D.*, JANTUNEN, M.*, MARONI, M.*,...

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Chemical Agents – Indoor Air Quality

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Article Contribution to a Monograph

KOTZIAS, D., GEISS, O., LEVA, P., BELLINTANI, A., ARVANITIS, A., KEPHALOPOULOS, S., Why Ventilation is not a Viable Alternative to a Complete Smoking Ban - In: Lifting the smoke screen: 10 reasons for a smoke free Europe (2006). JOHN BRITTON, JEAN KING, PHILIPPE MOUROUGA, SUSANNE VOLQVARTZ (Eds.), ERSJ LTD. (Publ.), Brussels (Belgium) - PB/2006/IHCP/3953

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KOTZIAS, D., Critical Appraisal of the Setting and Implementation of Indoor Exposure Limits in the EU (INDEX). A Project Funded by the European Commission DG SANCO. 8th Conference of the European Federation of Asthma and Allergic Diseases, EFA, 26-29 June 2003, Lisbon, Portugal - ORA 63928


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KATSOYIANNIS, A., LEVA, P., KOTZIAS, D., Determination of Volatile Organic Compounds Emitted from Household Products. The Case of Velvet Carpets

Contribution to Conference


Released from Consumer Products/Articles (ISEA 2003), EC-IHCP, ICPS, KTL, 21-25 September 2003, Stresa, Italy (2003) 308 - ORA 64219

PAPAMELETIOU, D., Risks from Chemicals Released from Consumer Products/Articles. 2. Familien-Gesundheitstag, FFG e.V., 18 May 2003, Amberg, Germany - ORA 63813

PAPAMELETIOU, D., The Workprogramme of "EIS-CHEMRISKS - European Information System on Risks from Chemicals Released from Consumer Products/Articles" on Textiles. 3° Convegno Tessile e Salute, Ass. Tessile, 20-21 March 2003, Biella, Italy - ORA 63620


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LAHANIATIS, M., Chemtest-phase I Project on Compilation, Analysis and Evaluation of Data and Methodologies to Characterise Qualitatively and Quantitatively Human Exposure to Chemicals Released from Consumer Products - Seminar on the Assessment of Consumer Exposure to Chemicals in Consumer Products, Brussels, Belgium, 29 September 2006 - PB/2006/IHCP/2338


SIMONEAU, C., Exposure to Chemicals from Toys. The Example of Phthalates in Soft PVC Toys. 13th Annual Conference of the Intern. Society of Exposure Analysis on Risks from Chemicals Released from Consumer Products/Articles (ISEA 2003), 21-25 September 2003, Stresa, Italy - ORA/POST 64254
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SIMONEAU, C., La Sécurité Alimentaire au Niveau Contamination Chimique par les Matériaux au Contact et son Contexte Législatif Européen. INDUSTRIES ALIMENTAIRES ET AGRICOLES, Décembre 2003 - ART 91612


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SIMONEAU, C., Regulatory and Safety Implications of Materials in Contact with Food and the Food Industry, Including in the Context of Plasma Treatments.


SIMONEAU, C., Classical vs Alternative Measurements to Identify and Quantify Contaminants and Taints from Food Contact Materials and Evaluate Migration Phenomenon. Emissions and Odours in Materials, CERTECH, 22-23 September 2004, Brussels, Belgium - ORA 65454


SIMONEAU, C., Contaminazione degli alimenti a contatto con i materiali d'imballaggio. Corso tecnologie alimentari per dipenditi ASL 3, DCCI, Univ. degli Studi Genova, 13-16 dicembre 2004, Genova, Italy - ORA 65788

tecnologiche, controllo del rischio, marketing e comunicazione., Gruppo Scientifico Italiano Studi e Ricerche, 27 ottobre 2004, Milano, Italy - ORA 65646


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MARAFANTE, E., SARIGIANNIS, D., Meeting the Scientific Needs of Endocrine Disrupter Risk Assessment in a Regulatory Context. CREDO Workshop on Endocrine Disruptors, Prague, Czech Republic, 10-12 May 2005, CREDO Network (Organiser) – PB/2005/IHCP/0679
CASATI, B., COLLOTTA, A., CLERICI, L., MARAFANTE, E., *Gene Expression Modulation in the Liver of Mice Following Acute or Chronic Exposure to Arsenic.* The 42nd Congress of European Societies of Toxicology, Krakow, Poland, 11-14 September 2005, Eurotox, the Federation of European Toxicologists and Societies of Toxicology (Organiser) – PB/2005/IHCP/0856

CASATI, B., *Gene Expression Profiling in Renal Cell Carcinoma.* Autumn Meeting of the EORTC Group, 30 October 2004, Orta, Italy - ORA 65642


CASATI, B., COLLOTTA, A., CLERICI, L.A., MARAFANTE, E., *Gender Differences in Gene Expression in Tissues of Male and Female Mice Exposed to Arsenic in Drinking Water.* Workshop on Gender Differences in Risk Assessment, EC-JRC, SGOMSEC, 17-21 November 2003, Orta, Italy - ORA 64437

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CASATI, B., CIMINO REALE, G., BRUSTIO, R., COLLOTTA, A., FOLGIERI, R., CLERICI, L., MARAFANTE, E., *Dietary Proteins Modulates the Gene Expression in Mice Chronically Exposed to Arsenate.* The 1st International Workshop in Modifiers


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VERDEBOUT, J., *Modelling Natural Surface UV Radiation with METEOSAT AND MSG* – In: Proceedings of the 3rd MSG RAO Workshop, Helsinki (Finland), 15 June


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VERDEBOUT, J., PERALTA, R., REMBGES, D., A Natural UV Human Exposure Model Based on Radiative Transfer and Preliminary Comparison with Dosimetry


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CIESLIK, S.A., FAMULARI, D., Stationary Tests and Methane Fluxes. EUROTRAC 2 Symposium, 11-15 March 2002, Garmisch-Partenkirchen, Germany - ORA/POST 62651


GEROSA, C., CIESLIK, S.A., BALLARIN-DENTI, A., Partitioning of Ozone Fluxes between Stomatal and Other Pathways over a Wheat Field in the Po River Plain during the Growing Season. EUROTRAC 2 Symposium, 11-15 March 2002, Garmisch-Partenkirchen, Germany - ORA/POST 62652

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REMBGES, D., RYDER, J. (Eds.), ECUV Brochure - S.P./I.02.127
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VRHOVSEK, U.*, PALCHETTI, A.*, RENIERO, F., GUILLOU, C.G., MASUERO, D.*, MATTIVI, F.*, *Concentration and Mean Degree of Polymerization of Rubus Ellagittannins Evaluated by Optimized Acid Methanolysis* - JOURNAL OF
AGRICULTURAL AND FOOD CHEMISTRY, Vol. 54, No. 12 (2006), 4469-4474, AMER CHEMICAL SOC (Publ.), Washington (United States of America) - PB/2006/IHCP/3919


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GUILLOU, C.G., RENIERO, F., HOLLAND, M., REZZI, S., CALDERONE, G., SERRA, F., DORON, R., **Isotopic Analysis and European Databases: 15 Years Experience Developed at the Joint Research Centre of the European Commission for Application to Antifraud.** Food Authenticity: Purity of Oils and Fats in Foods, ENFSI, 31 May 2004, Riva del Garda, Italy - ORA 65059


REZZI, S., FAUHL, C.*, GIONFRIDDO, F.*, RENIERO, F., GUILLOU, C.G., Complex Mixture Analysis by 2H-NMR Exemplified by the Study of Bergamot Oil. Second Intern. Symposium on Isotopomers (ISI 2003), EC-JRC, JST, 4-6 November 2003, Stresa, Italy - ORA/PRO 64368


GUILLOU, C.G., Spectroscopic and Isotopic Techniques for the Authentication of Wines and Spirits. Third Symposium In Vino Analytica Scientia: Analytical Chemistry for Wine, Brandy and Spirits, ENC, FECS, 10-12 July 2003, Aveiro, Portugal - ORA 64065


RENIERO, F., GUILLOU, C.G., SERRA, F., CALDERONE, G., Applicazione dell'Analisi Isotopica degli Alimenti nell'Ambito della Comunità Europea. Ruolo degli Isotopi nella Catarrerizzazione di Substrati Naturali in Ambito Agraria-Ambientale-Alimentare, Thermofinnigan, 1 April 2003, Rodano, Italy - ORA 63659


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MORENO ROJAS, J., ALONSO SALCES, R., TRANTALLIDI, M.*, HOLLAND, M., HEBERGER, K., RENIERO, F., GUILLOU, C.G., Fingerprinting Olive Oil by
Mean NMR and IRMS Techniques - TRACE (Organiser), TRACE 2nd Annual Meeting, Prague, Czech Republic, 24-26 April 2006 - PB/2006/IHCP/1628

SCHULTHEIS, G., COSOFRET, S., SERRA, F., CALDERONE, G., MORENO ROJAS, J., RENIERO, F., GUILLOU, C.G., N Isotopic Ratios - a Discriminator for Organic Products? - Institut für Mineralogie, TU Bergakademie Freiberg (Organiser), 29th Annual Meeting German Association for Stable Isotope Research, Institute of Mineralogy (Wernerbau) of the Bergakademie Freiberg, Germany, 4-6 October 2006 - PB/2006/IHCP/2339

CALDERONE, G., SPANIK, I.*, HOLLAND, M., GUILLOU, C.G., Characterization of Slovakian Wine Distillates by Isotopic Techniques - INRA (National Institute for Agricultural Research) (Organiser), The 13th World Congress of Food Science and Technology, Nantes, France, 17-21 September 2006 - PB/2006/IHCP/2703

HOLLAND, M., ALONSO SALCES, R., MORENO ROJAS, J., REZZI, S., CALDERONE, G., RENIERO, F., GUILLOU, C.G., Polyunsaturated Fatty Acids in Fish Oils: Nutritional Aspects - INRA (National Institute for Agricultural Research) (Organiser), The 13th World Congress of Food Science and Technology, Nantes, France, 17-21 September 2006 - PB/2006/IHCP/2702

CALDERONE, G. (Eds.), NAULET, N.*, RENIERO, F., GUILLOU, C.G., BLANCH CORTES, A.*, 13C Analysis of CO2 from Sparkling Drinks Using GC-IRMS - INRA (National Institute for Agricultural Research) (Organiser), The 13th World Congress of Food Science and Technology, Nantes, France, 17-21 September 2006 - PB/2006/IHCP/2941

CALDERONE, G., GUILLOU, C.G., RENIERO, F., HOLLAND, M., The Isotopic Methods Used in the European Union for Authentication of Wines and Alcoholic Beverages - INRA (National Institute for Agricultural Research) (Organiser), The 13th World Congress of Food Science and Technology, Nantes, France, 17-21 September 2006 - PB/2006/IHCP/2942

COSOFRET, S., SCHULTHEIS, G., RENIERO, F., GUILLOU, C.G., New Method of Nitrate Extraction for N and O Isotopes Measurements - International Association of Environmental Analytical Chemistry (Organiser), The 12th Symposium on Sample Handling and Environment and Biological Analysis, Zaragoza, Spain, 17-20 October 2006 - PB/2006/IHCP/2700


SERRA, F., MORENO ROJAS, J.M., SCHULTHEIS, G., COSOFRET, S., RENIERO, F., GUILLOU, C.G., Stable Isotope Applications to Organic Farming: a
**Food Quality Perspective.** - 14th World Fertilizer Congress, Chaing Mai, Thailand, 22-27 January 2006. PB/2006/IHCP/

SCHULTHEIS, G., SERRA, F., COSOFRET, S., MORENO ROJAS, J.-M., CALDERONE, G., RENIERO, F., GUILLOU, C.G., *Study of Organic Farming Products by Means of Isotopic Analysis.* The 2nd International Symposium on Recent Advances in Food Analysis, Masaryk College Conference Center, Prague, Czech Republic, 2-4 November 2005, International Association of Environmental Analytical Chemistry (IAEAC) and the Department of Food Chemistry and Analysis of the Institute of Chemical Technology (Organiser) – PB/2005/IHCP/0509


SERRA, F., RENIERO, F., GUILLOU, C.G., *Discrimination between Natural and Synthetic Sources of Tartaric Acid by Means of $^{13}$C and $^{18}$O Analyses*. Second Intern. Symposium on Isotopomers (ISI 2003), EC-JRC, JST, 4-6 November 2003, Stresa, Italy - ORA/POST 64372


GUILLOU, C.G., RENIERO, F., *Ten Years Experience of the Stable Isotope Techniques in European Union Enforcement Laboratories*. 2nd Conference of European Customs Chemists "Safeguarding the European Citizens and Protecting the
Environment", Czech Customs Adm., EC, 22-24 October 2003, Prague, Czech Republic - ORA/POST 64332


PhD Theses

CALDERONE, G., Application des Techniques Isotopiques Modernes pour la Charactérisation de Produits Alimentaires et de Boissons (2005), Université de Nantes, Nantes, France – PB/2005/IHCP/1071

Special Publications

CALDERONE, G., Etudes et contribution à l'application des isotopes stables pour la détection des fraudes et la caractérisation de produits alimentaires. - S.P./I.04.216, 2004
Special Publications


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KOTZIAS, D., GEISS, O., LEVA, P., BELLINTANI, A., ARVANITIS, A., KEPHALOPOULOS, S., Why Ventilation is not a Viable Alternative to a Complete Smoking Ban - In: Lifting the smokescreen: 10 reasons for a smoke free Europe (2006). JOHN BRITTON, JEAN KING, PHILIPPE MOUROUGA, SUSANNE VOLQVARTZ (Eds.), ERSJ LTD., Brussels, Belgium (Publ.) - PB/2006/IHCP/3953


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GEISS, O., KOTZIAS, D., Determination of Nicotine in Smoke Condensate by Ion Chromatography Coupled to Ultraviolet Detection – CONTRIBUTIONS TO TOBACCO RESEARCH, Vol. 22, No.4, December 2006, VERBAND DER CIGARETTERNINDUSTRIE, Berlin, Germany (Publ.) – PB/2006/IHCP/6565


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PICCININI, P., BURIOVA, E., YAZGAN, S., Ring trial for the evaluation of correction factors d for the new fibre elastolefin - EUR 22309 EN (2006)

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D’IZARNY-GARGAS, S.*, PAVIOTTI, M., KEPHALOPOULOS, S., MCLACHLAN, N.*, *Comparison Among Environmental Noise Separation Techniques* – In: INTERNOISE 2006 Conference Proceedings CD ROM, Honolulu,


**Poster Presentation**


MORENO ROJAS, J., ALONSO SALCES, R., TRANTALLIDI, M.*, HOLLAND, M., HEBERGER, K., RENIERO, F., GUILLOU, C. *Fingerprinting Olive Oil by Mean NMR and IRMS Techniques* - TRACE (Organiser), TRACE 2nd Annual Meeting, Prague, Czech Republic, 24-26 April 2006 - PB/2006/IHCP/1628


PASTORELLI, S., VALZACCHI, S., RODRIGUEZ BERNALDO DE QUIROS, A., SIMONEAU, C., TORRI, L.*, LIMBO, S.*, *SPME and Sensors as Rapid Methods for the Determination of Hexanal in Nuts* - Institute of Physical and Theoretical Chemistry (Organiser), Eighth European Conference on Optical Chemical and Biosensors EUROPT(R)ODE VIII, Tuebingen, Germany, 2-5 April 2006 - PB/2006/IHCP/1897


SCHULTHEIS, G., COSOFRET, S., SERRA, F., CALDERONE, G., MORENO ROJAS, J., RENIERO, F., GUILLOU, C., *N Isotopic Ratios - a Discriminator for Organic Products?* - Institut für Mineralogie, TU Bergakademie Freiberg (Organiser), 29th Annual Meeting German Association for Stable Isotope Research, Institute of Mineralogy (Wernerbau) of the Bergakademie Freiberg, Germany, 4-6 October 2006 - PB/2006/IHCP/2339

SARIGIANNIS, D., GOTTI, A., SOULAKEKILLIS, N.*, *Information Fusion for Computational Assessment of Air Quality and Health Effects* - International Society of Exposure Assessment (Organiser), International Conference on Environmental
Epidemiology and Exposure, Paris, France, 2-6 September 2006 - PB/2006/IHCP/2344

CALDERONE, G., SPANIK, I.*, HOLLAND, M., GUILLOU, C., Characterization of Slovakian Wine Distillates by Isotopic Techniques - INRA (National Institute for Agricultural Research) (Organiser), The 13th World Congress of Food Science and Technology, Nantes, France, 17-21 September 2006 - PB/2006/IHCP/2703

HOLLAND, M., ALONSO SALCES, R., MORENO ROJAS, J., REZZI, S., CALDERONE, G., RENIERO, F., GUILLOU, C., Polyunsaturated Fatty Acids in Fish Oils: Nutritional Aspects - INRA (National Institute for Agricultural Research) (Organiser), The 13th World Congress of Food Science and Technology, Nantes, France, 17-21 September 2006 - PB/2006/IHCP/2702

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LAHANIATIS, M., Chemtest-phase I Project on Compilation, Analysis and Evaluation of Data and Methodologies to Characterise Qualitatively and Quantitatively Human Exposure to Chemicals Released from Consumer Products -


COSOFRET, S., SCHULTHEIS, G., RENIERO, F., GUILLOU, C., *New Method of Nitrate Extraction for N and O Isotopes Measurements* - International Association of Environmental Analytical Chemistry (Organiser), The 12th Symposium on Sample Handling and Environment and Biological Analysis, Zaragoza, Spain, 17-20 October 2006 - PB/2006/IHCP/2700


Article Contribution to a Periodical Listed in the ISI Journal Citation Report


Article Contribution to Other Periodicals


KOTZIAS, D., Indoor Air and Human Exposure Assessment - Needs and Approaches, in: EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY 57 (2005) 2-7


Additional important contribution to Encyclopedia of Toxicology:


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PART II

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Article Contribution to Conference Proceedings Published in a Periodical Listed in the ISI Journal Citation Reports


Scientific Paper Presented at a Conference and Published in a Book of Conference Proceedings (With Editorship)


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**Special Publications**


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REMBGES, D., RYDER, J., (Eds.), ECUV Brochure - S.P./I.02.127
Abstract
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