

## **Oral presentations**

### **Young Scientist Award Presentation 1**

A211 - Acharya - India

PROMPT GAMMA-RAY NEUTRON ACTIVATION ANALYSIS METHODOLOGY FOR DETERMINATION OF BORON CONCENTRATIONS AT MAJOR TO TRACE LEVELS IN DIFFERENT SAMPLI

### **Young Scientist Award Presentation 2**

A3 - Hamidatou - Algeria

DETERMINATION OF TRACE ELEMENTS IN CIGARETTE TOBACCO BY K<sub>0</sub>-BASED AND RELATIVE NEUTRON ACTIVATION ANALYSIS METHODS, USING ES-SALAM RESEARCH REACTOI

### **Session 1 - Nutrition-I**

A170 - Fernandes - Brazil

EFFECT OF RIPENING STAGES ON THE CHEMICAL COMPOSITION OF TOMATOES

A82 - Bode - The Netherlands

STABLE ISOTOPE RATIOS, RAMAN SPECTROSCOPY AND MICROBEAM PARTICLE-INDUCED X-RAY EMISSION IN STUDIES OF BIOINDICATOR CAPABILITIES OF NAIL CLIPPINGS

A183 - Moon - Korea

ANALYSIS OF THE INORGANIC ELEMENTS OF KOREAN CHILDREN'S FOODS BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS

### **Session 2 - Biomonitoring-I**

A89 - Ayrault - France

COMPLEMENTARITY OF ANALYTICAL TOOLS IN BIOMONITORING STUDIES

A68 - Fukushima - Japan

MULTI-ELEMENT ANALYSIS OF KOREAN AND JAPANESE OYSTER TISSUES BY NEUTRON AND PHOTON ACTIVATION

A164 - Godinho - Portugal

ASSESSING ENVIRONMENTAL POLLUTION WITH LICHENS: A NUCLEAR MICROPROBE APPLICATION

A167 - Turra - Brazil

RARE EARTH ELEMENTS IN ORGANIC AND CONVENTIONAL BRAZILIAN SWEET ORANGE

A216 - Farinha - Mexico

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### **Session 3 - Speciation-I**

A20 - Lahiri - India

IN VITRO KINETIC STUDIES ON DIRECT COMPLEXATION OF INSULIN WITH ASTATINE RADIONUCLIDES

A8 - Dybczyński - Poland

TWO PHILOSOPHIES IN DESIGNING RADIOCHEMICAL SEPARATIONS INTENDED FOR NEUTRON ACTIVATION ANALYSIS

A27 - Pavelka - Czech Republic

RADIOMETRIC ENZYME ASSAYS: IMPLEMENTS FOR STUDIES OF THYROID HORMONES METABOLISM IN THE RAT

A25 - Behne - Germany

SELENIUM STATUS AND SELENIUM DISTRIBUTION IN TISSUES AND MONITOR MATERIALS AFTER LONG-TERM SELENIUM SUPPLEMENTATION INVESTIGATED BY NEUTRON ACTIVA

### **Session 4 - Environment-I**

A1 - Carvalho - Portugal

URANIUM ISOTOPES IN HUMAN URINE

A186 - Álvarez-Iglesias - Spain

GEOCHEMISTRY OF MARINE SEDIMENTS FROM INNER "RÍA DE VIGO" (NW SPAIN) FROM X-RAY FLUORESCENCE AND RADIONUCLIDE ANALYSES

A48 - Laoharojanaphand - Thailand

APPLICATION OF NUCLEAR ANALYTICAL TECHNIQUES ON THAI SILK

A50 - Vinšová - Czech Republic

INTERACTION OF <sup>99</sup>Tc ONTO BENTONITE AND INFLUENCE OF Fe(II) AND Ca,Mg ION EXCHANGE IN ITS INTERLAYERS

A10 - Asgharizadeh - Iran

DETERMINATION OF CADMIUM IN IRANIAN HOUSEHOLD WASTE USING INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS

### **Session 5 - QC/QA-I**

A9 - Zeisler - USA

CHALLENGES AND SUCCESS FOR NEUTRON ACTIVATION ANALYSIS PROCEDURES IN VALUE ASSIGNMENT OF ANIMAL SERUM AND BOVINE LIVER STANDARD REFERENCE MATER

A163 - Yonezawa - Austria

DETERMINATION OF GAMMA EMITTING RADIONUCLIDES IN INTERNATIONAL ATOMIC ENERGY AGENCY REFERENCE MATERIALS OF ENVIRONMENTAL ORIGIN

A147 - Greenberg - USA

PERFORMANCE OF THE NUCLEAR ANALYTICAL METHODS IN HIGH-LEVEL INTERNATIONAL COMPARISONS

A135 - Vieira - Portugal

INTER-COMPARISONS ANALYSIS – ASSESSMENT OF OPTIMUM INSTRUMENTS FOR MINIMUM DETECTABLE AMOUNTS IN MULTI-ELEMENT TECHNIQUES

A187 - James - USA

CRUSTAL FRACTION OF CATTLE FEEDLOT PARTICULATE MATTER EMISSIONS USING NEUTRON ACTIVATION ANALYSIS: METHOD DEVELOPMENT

### **Session 6 - Nutrition-II**

A44 - Milton - Australia

ASSOCIATION BETWEEN CHRONIC ARSENIC EXPOSURE AND NUTRITIONAL STATUS AMONG THE WOMEN OF THE CHILD BEARING AGE: A CASE-CONTROL STUDY IN BANGLADESH

A168 - Watanabe - Japan

RELEVANCE OF NUTRITIONAL STATUS TO THE TOXICITY OF ARSENIC IN SOUTH ASIAN COUNTRIES

A90 - Ojo - Nigeria

RADIOACTIVITY IN SOME FOODS AND SOILS FROM JOS TIN MINES, NIGERIA

**Session 7 - Biomonitoring-II**

A14 - Markert - Germany  
A158 - Moreira - Brazil  
A182 - Dailliant - France

AVAILABLE TOOLS FOR AN INTEGRATED BIOINDICATION AND BIOMONITORING APPROACH  
DEVELOPMENTS IN THE PREPARATION OF A BRAZILIAN REFERENCE MATERIAL: PERNA PERNA MUSSEL  
POTENTIAL OF LICHENS FOR INVESTIGATING CHLORINE-36 IN THE ENVIRONMENT

**Session 8 - Agriculture**

A43 - Tejo Prakash - India  
A152 - Luo - China  
A56 - Pires - Brazil

PROFILE OF SELENIUM IN SOIL AND CROPS IN SELENIFEROUS AREA OF PUNJAB, INDIA BY NEUTRON ACTIVATION ANALYSIS  
STUDY OF TOXICITY EFFECTS OF HEAVY ELEMENTS IN FARMLANDS ON BIOCHAINS BASED ON BIOGEOCHEMICAL INVESTIGATIONS  
ATOMIC ABSORPTION SPECTROMETRY AND PARTICLE-INDUCED X-RAY EMISSION TECHNIQUES TO EVALUATE SOIL CHEMICAL MIGRATION DURING SOIL WATER RETENTION DETE

**Session 9 - Environment-II**

A13 - Simeonov - Bulgaria  
A189 - Öztürk - Turkey  
A181 - Araújo - Portugal

ENVIRONMENTAL ASSESSMENT OF NATURAL WATER ENVIRONMENTS  
A NEW APPROACH FOR THE CHARACTERIZATION OF AEROSOLS USING ENERGY DISPERSIVE X-RAY FLUORESCENCE  
GEOCHEMICAL ANALYSIS OF MINHO ESTUARY SEDIMENTARY RECORD AND ITS CONTRIBUTION TO PALAEOENVIRONMENTAL EVOLUTION

**Session 10 - Human Health-I**

A32 - Zaichick - Russia  
A78 - Shinohara - Japan  
A120 - Pinheiro - Portugal  
A91 - Anjos - Brazil

NEUTRON ACTIVATION ANALYSIS OF Ca, Cl, K, Mg, Mn, Na, P, AND Sr CONTENTS IN THE CROWNS OF HUMAN PERMANENT TEETH  
BEHAVIOR OF SAMARIUM INHALED TO MICE – EXPOSURE LENGTH AND TIME-DEPENDENT CHANGE  
SERIAL CHANGES OF IRON CONCENTRATIONS IN SKIN AND PLASMA OF PATIENTS WITH HEMOCHROMATOSIS  
DETERMINATION OF Na, P, S, Cl, K AND Ca IN SERUM OF PATIENTS WITH CHRONIC MYELOGENOUS LEUKEMIA USING TOTAL REFLECTION X-RAY FLUORESCENCE

**Session 11 - Methodologies-I**

A174 - De Corte - Belgium  
A23 - Tykva - Czech Republic  
A143 - Chaudhri - Germany  
A109 - Spyrou - United Kingdom

COUNTING OF NATURAL ALPHA, BETA, GAMMA RADIATION FOR LUMINESCENCE DATING: OPTIMIZED PROTOCOLS, PRACTICAL ASPECTS AND CRITICAL REMARKS  
RADIOTRACER ANALYSES FOR CONTROL OF INSECT PEST REPRODUCTION  
INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY AND ITS APPLICATIONS IN THE STUDY OF CONCENTRATIONS AND SPATIAL DISTRIBUTIONS OF ELEMENTS/ISOTOPES IN E  
SIMULATION OF IN VIVO NEUTRON INDUCED GAMMA-RAY EMISSION IMAGING DURING BORON NEUTRON CAPTURE THERAPY

**Session 12 - Environment-III**

A184 - Figueiredo - Brazil  
A99 - Světlík - Czech Republic  
A176 - Almeida - Portugal

HEAVY METALS IN URBAN PARK SOIL: A STUDY IN THE CITY OF SÃO PAULO, BRAZIL  
ROBUST PARAMETERS OF ATMOSPHERIC RADIOCARBON DIOXIDE MONITORING  
SEASONALITY OF AIR POLLUTANTS AND THEIR SOURCES IN LISBON

**Session 13 - Human Health-II**

A110 - Wolterbeek - The Netherlands  
A77 - Abugassa - Libya  
A107 - Ellis - USA

MULTI-ELEMENT NUCLEAR ANALYTICAL METHODS IN METAL (ENVIRONMENTAL) EPIDEMIOLOGY: A MUST OR JUST ANOTHER POSSIBILITY?  
EVALUATION OF CONCENTRATIONS OF MAJOR AND TRACE ELEMENTS IN HUMAN BLOOD SAMPLES OF TUBERCULOSIS PATIENTS AND HEALTHY PERSONS FROM LIBYA USING IN  
NEUTRON ACTIVATION ANALYSIS COUPLED WITH THE ASSOCIATED PARTICLE TECHNIQUE FOR BODY COMPOSITION MEASUREMENTS IN HUMANS

**Session 14 - QC/QA-II**

A87 - Kučera - Czech Republic  
A57 - Mackey - USA  
A26 - Vermaercke - Belgium  
A73 - Spasova - JRC

PREPARATION AND CHARACTERIZATION OF NEW REFERENCE AIR PARTICULATE FILTERS USING INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS AND PARTICLE-INDUCED X-RAY  
ASSESSMENT OF STABILITY OF SELECTED TRACE ELEMENTS IN THREE ENVIRONMENTAL NATURAL MATRIX STANDARD REFERENCE MATERIALS: NIST-SRM 1547 "PEACH LEAVES"  
VALIDATION OF THE DETERMINATION OF TIN BY K<sub>0</sub>-NEUTRON ACTIVATION ANALYSIS  
234U AND 238U IN DRINKING WATER – REFERENCE VALUE AND UNCERTAINTY EVALUATION IN THE FRAME OF AN INTERLABORATORY COMPARISON

**Session 15 - Natural Medicine**

A35 - Garg - India

A130 - Leal - Brazil

A122 - Silva - Brazil

A106 - Hu - China

A55 - Khaled - Algeria

ELEMENTAL ANALYSIS OF BRAHMI (BACOPA MONNIERI) EXTRACTS BY NEUTRON ACTIVATION AND ITS ANTIOXIDANT, RADIO PROTECTIVE AND ANTI-LIPID PEROXIDATION ACTIVITY

INTERCOMPARATIVE NEUTRON ACTIVATION ANALYSIS OF LARGELY CONSUMED MEDICINES IN BRAZIL

RADIOACTIVE AND STABLE ELEMENTS' CONCENTRATIONS IN MEDICINAL PLANTS FROM BRAZIL

<sup>41</sup>CA AND ACCELERATOR MASS SPECTROMETRY TO MONITOR FEMUR CALCIUM UPTAKE IN HINDLIMB-UNLOADED RATS

ELEMENTAL ANALYSIS OF TRADITIONAL MEDICINAL SEEDS BY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS

**Session 16 - Methodologies-II**

A42 - Pereira - Brazil

A31 - Smodiš - Slovenia

A21 - Zhang - China

A83 - Koster-Ammerlaan - The Netherlands

A171 - Silva - Brazil

X-RAY FLUORESCENCE MICROTOMOGRAPHY ANALYZING PROSTATE TISSUES

ERON – A COMPREHENSIVE TOOL FOR QUANTIFYING OVERALL MEASUREMENT UNCERTAINTY OF <sup>k0</sup>-NAA RESULTS

METHOD DEVELOPMENT FOR FLUORINE IN BIOLOGICAL SAMPLES USING CYCLIC EPITHERMAL NEUTRON ACTIVATION ANALYSIS

ORIENTATION ON THE USE OF COMPLETE DIAPERS AS A TOOL IN NUTRITIONAL BALANCE STUDIES USING LARGE SAMPLE NEUTRON ACTIVATION ANALYSIS

DETERMINATION OF URANIUM IN PHOSPHORIC ACID USING NEUTRON ACTIVATION ANALYSIS

**Session 17 - Human Health-III**

A128 - Martinho - UN

A127 - Akanle - United Kingdom

A193 - Sarmiento - Portugal

A60 - Metairon - Brazil

SPATIAL REGRESSION ANALYSIS BETWEEN AIR POLLUTION AND CHILDHOOD LEUKAEMIA IN PORTUGAL

EFFECT OF AROMATASE INHIBITOR ON BONE MINERAL DENSITY OF POST-MENOPAUSAL BREAST CANCER PATIENTS

CORRELATING TIME-SERIES OF AIR POLLUTANTS AND ACUTE HOSPITAL ADMISSIONS IN LISBON

REFERENCE VALUES IN WHOLE BLOOD OF SJL/J MICE USING NEUTRON ACTIVATION ANALYSIS

**Session 18 - Speciation-II**

A138 - Chatt - Canada

A18 - Chai - China

A195 - Yusof - Malaysia

A65 - Dantas - Brazil

STUDIES OF EXTRACTABLE ORGANOCHLORINES IN MARINE ANIMALS BY NEUTRON ACTIVATION, MASS SPECTROMETRY AND NUCLEAR MAGNETIC RESONANCE SPECTROMETRY

ADVANCED NUCLEAR ANALYTICAL TECHNIQUES FOR METALLOMICS STUDY

USE OF GRANULATED MODIFIED ZEOLITE Y FOR THE REMOVAL OF INORGANIC ARSENIC AND SELENIUM SPECIES

OPTIMIZATION OF <sup>99m</sup>Mo MEASUREMENT IN <sup>99m</sup>Tc ELUATE SAMPLES USING A SCINTILLATION DETECTION SYSTEM