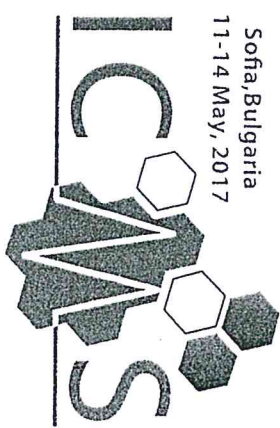




Sofia, Bulgaria  
11-14 May, 2017



for students and young doctors

# Abstract Book



**XVI International Congress of Medical Sciences**  
**Sofia, Bulgaria**  
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XVI

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MEDICAL SCIENCES  
11 - 14 May 2017  
SOFIA, BULGARIA

## CYTOGENETIC ANALYSIS RELIABLE METHODS FOR DIAGNOSIS ANEUPLOIDIES IN PRENATAL DIAGNOSIS

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**University:** Goce Delcev

**Country of University:** Macedonia

**Introduction:** Prenatal diagnosis of cytogenetic abnormalities is now widely recognized as a reliable method with an acceptable risk for couples at high risk of giving birth to a child with clinically significant chromosome abnormalities. Microscopic chromosome analysis of cultured cells has been regarded as the standard method for prenatal cytogenetic diagnosis.

**Aim:** Prenatal diagnosis employs a variety of techniques to determine the health and condition of an unborn fetus. Without knowledge gained by prenatal diagnosis, there could be an untoward outcome for the fetus or the mother or both.

**Materials and methods:** Prenatal cytogenetic analysis of chorionic villi obtained material or amniotic fluid was performed by culturing the cell culture from isolated cells, followed by the bendiranj metaphase chromosomes. However, this method is faced with a high degree of failure of cell culture, infection and contamination of the sample from the mother leading to inaccurate results or denial of a result. Additionally, conventional cytogenetic analysis (karyotyping, FISH) techniques are expensive and require a long time to get a result. Recently it was shown that fluorescence quantitative polymerase chain reaction (QF-PCR) is a useful and reliable method to diagnose aneuploidies in prenatal diagnosis. Also, QF-PCR analysis provides information of parent and origin of the aneuploidies, allowing adequate genetic counseling.

**Results:** Congenital anomalies account for 20 to 25% of perinatal deaths.

**Conclusion:** This report confirms the importance of screening and the cytogenetic diagnosis in the identification of the numerical chromosomal abnormalities.

**Keywords:** Prenatal diagnosis, chromosome analysis, abnormalities, aneuploidies

**Contact authors at:**

## Public Health Oral Session

PLAMENA  
TODOROVA  
ROSITSA  
NIKOLOVA

EPIDEMIOLOGIC STUDY ON DIETARY FACTORS IN URO-  
LITHIASIS  
HOW TO LEARN FROM MEDICAL MALPRACTICE AND  
PREVENT ADVERSE EVENTS

MOHAMED  
MAHMOOD  
VIKTORIA  
NIKOLOVA  
TRI  
KURNIAWAN

RISK- FACTORS FOR DRUG RESISTANT TUBERCULOSIS  
IN GEORGIA  
THE SOCIO-ECONOMIC IMPACT OF URBANIZATION ON  
THE DEVELOPMENT OF DIABETES MELLITUS TYPE 2  
RISK FACTOR ANALYSIS OF KIDNEY FAILURE/END-STAGE  
RENAL DISEASE IN PATIENTS WHO ARE CURRENTLY ON  
REGULAR HEMODIALYSIS TREATMENT ON DR. WAHIDIN  
SUDIROHUSODO HOSPITAL MAKASSAR

## Public Health Poster Session

AZKA  
FOUZI  
DESISLAV  
DINEV

DAILY CONSUMPTION OF BOTTLED WATER IN THIRD WORLD  
COUNTRIES  
3D CANCER CELL COLONIES AS SUITABLE MODEL SYSTEMS IN  
EXPERIMENTAL ONCOPHARMACOLOGY

IVELINA  
TRIFONOVA

VIRAL RESPIRATORY PATHOGENS DETECTED AMONG CHIL-  
DREN AGED UNDER FIVE YEARS WITH ACUTE RESPIRATORY  
INFECTIONS DURING THE 2015/2017 AND 2016/2017 WINTER  
SEASONS IN BULGARIA

JURE  
COLNARIC

USE OF RED BLOOD CELLS TRANSFUSION IN CHILDREN WITH  
ACUTE LEUKEMIA

KATYA  
SAVOVA

LYMPHATICHELLO DRAINAGE USING INDIRECT HIGH FRE-  
QUENCY FOR BEAUTY AND HEALTHY FACE

KIRIL  
YANKOV

COMPLICATIONS FREQUENCY IN NEWLY DIAGNOSED DIABE-  
TES TYPE 2

MARIANA  
KOSHE  
KEYVGH

AGE-RELATED CHANGES OF CELLULAR PRION LOCALIZATION  
AND LEVEL IN THE RATS' MUSCLE

MARTINA  
DIETRICH

BREASTFEEDING IN A PRIMARY HEALTH-CARE UNIT OF PELO-  
TAS, BRAZIL: A DESCRIPTIVE EVALUATION OF COVERTURE.

METODI  
DINEV

FACTORS ASSOCIATED WITH CAREER CHOICES AND EXEC-  
UTIONS OF THE STUDENTS AT THE MEDICAL FACULTY IN  
SKOPIE, MACEDONIA

NEVENKA  
VELICKOVA

CYTOGENETIC ANALYSIS RELIABLE METHODS FOR DIAGNOSIS  
ANEUPLOIDIES IN PRENATAL DIAGNOSIS

IVAN  
ANDZE

INFLUENCE OF SOME FOOD ADDITIVE "COCKTAIL EFFECT"  
ON LABORATORY RATS BEHAVIORS AND INTERNEL ORGANS.

MANDIHP  
SINGH

LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS) IN CER-  
VICAL CANCER SCREENING: A PROPOSED TOOL

IVIG  
SERBIA

USE OF INFORMATION TECHNOLOGY IN SOUTHEASTERN

PARRYOVIRUS B19 AS A CAUSATIVE PATHOGENE IN A PATHO-  
LOGICAL PREGNANCY DURING THE 2015-2016 YEAR IN BUL-

## Index

Marinov V. 245  
Marks S. 167  
Matsei T. 218  
Mavroudeas S. 65  
Maziashevili N. 207  
Meitavany E. 42  
Melnic S. 290  
Melnikova V. 262, 282  
Melnyk N. 158  
Mergenbayev Z. 260  
Meskalo O. 110  
Mihajlov Z. 195  
Mihaylova I. 268  
Milcanovic N. 252  
Milleva B. 180  
Milleva V. 301  
Milosevic S. 331  
Milovanovic S. 59  
Minkov P. 111  
Miteva M. 299  
Mitic T. 216  
Mitrov L. 61  
Moalin A. 73  
Mohammed Amin S. 279  
Moisei M. 291  
Mollova M. 292  
Morfov St. 256  
Moskov O. 56  
Motelica G. 289

## N

Nelu B. 287  
Nikolov A. 78  
Nikolova A. 176  
Nikolova R. 314  
Nikolova S. 165  
Nikolova V. 316  
Nizamova N. 107  
Novak D. 184

## O

Ozdemir O. 212

## P

Palasz I. 306  
Palchykov V. 224  
Papochiev K. 196  
Parhusp Y. 70  
Pavlova A. 74  
Pazik A. 35  
Pencheva D. 139  
Perperieva K. 88  
Peterko A. 34  
Petkou C. 138  
Petrova P. 163  
Petrov V. 283  
Peycheva K. 308  
Pietraszek A. 132  
Pilvinyte L. 150  
Piperova A. 76  
Politova I. 94  
Prosvitiluk P. 278  
Purice I. 269  
Pusica A. 265

## R

Rackauskaite S. 164  
Radoi A. 230  
Radomirovic D. 141  
Radoslavova B. 169  
Rai S. 168  
Rajkovic I. 46  
Roazah R. 114

## S

Sadak S. 255  
Sadeghdoust M. 156  
Savka I. 192  
Savova K. 323  
Scordilis D. 239  
Seipalla F. 87  
Senkova S. 115

Shahid M. 51

Shalev P. 213

Shamsi M. 310

Simeonov N. 277

Sinanaj H. 147

Singh O. 330

Slavchev Sv. 274

Smitian-Horbunova K. 199

Spania C. 137

Stanchev St. 40, 64

Stefanova Zh. 125

Stefanov M. 153

Stepan D. 186

Stevic J. 247

Stojanovic M. 104

Stojiljkovic V. 122

Stoykova V. 296

Sudirman A. 128

Suhandoko L. 200

Surchev K. 272

Svystak O. 108

## T

Takymay K. 249

Tarasava O. 209

Tashkova S. 295

Timmermane A. 227

Titkova O. 162

Todorova A. 133

Todorova P. 313

Tofan B. 182

Toth T. 257

Tovazhnianska V. 335

Trendafilov D. 82

Triantafyllidou M. 100

Trifonova I. 321

Trzeciak K. 248

Tsagkarts C. 234

Tsaney T. 280

Tsekova R. 273

Tsekova T. 281

Tsisarenko A. 77

Tsvetanova N. 293

Twizeyimama E. 304

## V

Valentina Jung 334

Valchev V. 220

Vasilev M. 204

Vehabovic-Delic A. 129

Velickova N. 328

Velinov L. 99

Venckus M. 157

Vincze A. 134

Vira Tovazhnianska 335

Vlasova K. 96

Voleva S. 332

Vonatis C. 235

Vutova V. 222

## Y

Yanay M. 206

Yanik C. 81

Yanikoglu Y. 172

Yankov K. 324

Yatsukhna U. 258

Yordanova P. 57

Yordanov Y. 261

Yosypenko V. 123

## Z

Zafeiridis I. 92

Zaharieva E. 187

Zakharчук U. 170

Zhelyazkova M. 152

Zhivkova T. 117

Ziurlys M. 155

Zubair M. 311

## Index

