



ASSOCIATION OF  
GENETIC TECHNOLOGISTS

## AGT Journal Club Order Form

**READING LIST 32 – General Content Area:** Proposed WHO Classification for Hematopoietic and Lymphoid Neoplasms – 2001

1. World Health Organization classification of neoplastic diseases of the hematopoietic and lymphoid tissues: a progress report
2. World Health Organization classification of neoplastic diseases of the hematopoietic and lymphoid tissues: report of the clinical advisory committee

**READING LIST 33 – General Content Area:** Hematologic Malignancies – 2001

1. FISH identifies  $inv(16)(p14q22)$  masked by translocations in three cases of acute myeloid leukemia
2.  $t(11;14)$ -positive mantle cell lymphomas exhibit complex karyotypes and share similarities with B-cell chronic lymphocytic leukemia
3. Isodicentric 7p,  $idic(7)(q11.3)$ , in acute myeloid leukemia associated with older age and favorable response to induction chemotherapy: a new clinical entity?

**READING LIST 34 – General Content Area:** New FISH-based Technologies – 2001

1. Comparative Genomic Hybridization in Combination with Flow Cytometry Improves Results of Cytogenetic Analysis of Spontaneous Abortions
2. Comparative Genomic Hybridization: A New Approach to Screening for Intrauterine Complete or Mosaic Aneuploidy
3. Limitations of Chromosome Classification by Multicolor Karyotyping

**READING LIST 35 – General Content Area:** Genetic Syndromes – 2001

1. Prenatal Diagnosis of Mosaic Trisomy 8 with Investigations of the Extent and Origin of Trisomic Cells
2. Genetics of Beckwith-Wiedemann Syndrome – Associated Tumors: Common Genetic Pathways
3. Velo-cardio-Facial Syndrome: A Distinctive Behavioral Phenotype

**READING LIST 36 – General Content Area:** Prenatal Testing – 2001

1. Identification of Uniparental Disomy Following Prenatal Detection of Robertsonian Translocations and Isochromosomes
2. Prenatal Diagnosis Using Interphase Fluorescence in situ Hybridization (FISH): 2: year Multi-center Retrospective Study and Review of the Literature
3. Preimplantation Genetic Diagnosis of Pericentric Inversions

**READING LIST 37 – General Content Area:** Pharmacogenetics and Pharmacogenomics–2002

1. Pharmacogenetics
2. Consent and Privacy in Pharmacogenetic Testing
3. Genetic Information, Genomic Technologies, and the Future of Drug Discovery
4. Mapping a Role for SNP's in Drug Development

**READING LIST 38 – General Content Area:** Hematologic Malignancies –2002

1. Double Minute Chromosomes in Acute Myeloid Leukemia and Myelodysplastic Syndrome: Identification of New Amplification Regions by Fluorescence In Situ Hybridization and Spectral Karyotyping
2. Common Fragile Sites Associated with the Breakpoints of Chromosomal Aberrations in Hematologic Neoplasms
3. High Frequency of Leukemic Clones in Newborn Screening Blood Samples of Children with B-precursor Acute Lymphoblastic Leukemia

**READING LIST 39 – General Content Area:** Molecular Topics: Solid Tumors –2002

1. Prediction by FISH Analysis of the Occurrence of Wilms Tumor in Aniridia Patients
2. Comprehensive Karyotyping of the HT-29 Colon Adenocarcinoma Cell Line

3. Cytogenetic Clues to Breast Carcinogenesis

**READING LIST 40 – General Content Area:** Molecular Topics – 2002

1. From Chromosomal Alterations to Target Genes for Therapy: Integrating Cytogenetics and Functional Genomic Views of the Breast Cancer Genome
2. High-throughput Genomic and Proteomic Analysis Using Microarray Technology
3. DNA Analysis in a Paternity Case Involving a Triploid Fetus

**READING LIST 41 – General Content Area:** Chromosomal Abnormalities – 2002

1. Identification of Uniparental Disomy in Phenotypically Abnormal Carriers of Isochromosomes or Robertsonian Translocations
2. Chromosome 13q Neocentromeres: Molecular Cytogenetic Characterization of Three Additional Cases and Clinical Spectrum
3. Microsatellite Analysis in Turner Syndrome: Paternal Origin of X Chromosomes and Possible Mechanisms of Formation of Abnormal Chromosomes

**READING LIST 42 – General Content Area:** Genetic Counseling– 2003

1. Categorizing Genetic Tests to Identify Their Ethical, Legal, and Social Implications
2. Genetic Counseling for Sex Chromosome Abnormalities
3. Carrier Testing in Fragile X Syndrome: When to Tell and Test

**READING LIST 43 - General Content Area:** Review Articles –2003

1. Cancer Genetics
2. Nature Reviews: Genetics
3. Neocentromeres: Role in Human Disease, Evolution, and Centromere Study

**READING LIST 44 – General Content Area:** Chromosome Positioning– 2003

1. Chromosome positioning in the interphase nucleus
2. Evolutionary conservation of chromosome territory arrangements in cell nuclei from higher primates
3. Non-random radial arrangements of interphase chromosome territories: evolutionary considerations and functional implications

**READING LIST 45 – General Content Area:** Treatment-Related Hematologic Disorders –2003

1. 11q23 balanced chromosome aberrations in treatment-related myelodysplastic syndromes and acute leukemia: report from an international workshop
2. 21q22 balanced chromosome aberrations in therapy-related hematologic disorders: report from an international workshop
3. Balanced chromosome abnormalities inv(16) and t(15;17) in therapy-related myelodysplastic syndromes and acute leukemia: report from an international workshop

**READING LIST 46 – General Content Area:** Mitochondrial Disorders– 2003

1. The genetics and pathology of oxidative phosphorylation
2. Detection of mitochondrial DNA mutations by temporal temperature gradient gel electrophoresis
3. Comprehensive scanning of the entire mitochondrial genome for mutations

**READING LIST 47 – General Content Area:** Prenatal Testing–2003

1. Prenatal Diagnosis of Down Syndrome: Ten Year Experience in the Israeli Population
2. Pregnancy Outcome and Prenatal Diagnosis of Sex Chromosome Abnormalities in the Hawaii, 1986-1999
3. Social and Familial Context of Prenatal Genetic Testing Decisions: Are There Racial/Ethnic Differences?

**READING LIST 48 – General Content Area:** Hematologic Malignancies– 2004

1. Molecular Cytogenetic Aspects of Hematological Malignancies: Clinical Implications

**READING LIST 49 – General Content Area:** Miscellaneous Topics– 2004

1. The Burden of Genetic Disease on Inpatient Care in a Children's Hospital
2. Contribution of Malformations and Genetic Disorders to Mortality in a Children's Hospital
3. A Study of Reciprocal Translocations and Inversions Detected by Light Microscopy With Special Reference to Origin, Segregation, and Recurrent Abnormalities

**READING LIST 50 – General Content Area: Cancer Genetics–2005**

1. Cytogenetics and Molecular Genetics of Lung Cancer
2. Chromosome Abnormalities May Correlate With Prognosis in Burkitt/Burkitt-Like Lymphomas of Children and Adolescents: A Report from Children's Cancer Group Study CCG-E08
3. Clinical Applications of BCR-ABL Molecular Testing in Acute Leukemia

**READING LIST 51 – General Content Area: Cancer Genetics– 2005**

1. Cytogenetic Profile of Myelodysplastic Syndromes with Complex Karyotypes: An Analysis Using Spectral Karyotyping
2. Classical Hodgkin Lymphoma is Associated with Frequent Gains of 17q
3. Specific Chromosome Aberrations in Peripheral Blood Lymphocytes are Associated with Risk of Bladder Cancer

**READING LIST 52 – General Content Area: New Technologies–2005**

1. Colour-Changing Karyotyping: An Alternative to M-FISH/SKY
2. A New Chromosome Banding Technique, Spectral Color Banding (SCAN), for Full Characterization of Chromosomal Abnormalities
3. Molecular Cytogenetic Analysis of Complex Chromosomal Rearrangements in Patients with Mental Retardation and Congenital Malformations: Delineation of 7q21.11 Breakpoints
4. Use of Targeted Array-Based CGH for the Clinical Diagnosis of Chromosomal Imbalances: Is Less More?

**READING LIST 53 – General Content Area: Genetic Syndromes– 2005**

1. Five Years of Molecular Diagnosis of Fragile X Syndrome (1997-2001): A Collaborative Study Reporting 95% of the Activity in France
2. Changing Demographics of Advanced Maternal Age (AMA) and the Impact on the predicted incidence of Down Syndrome in the United States: Implications for Prenatal Screening and Genetic Counseling
3. "Everybody in the World is My Friend" Hypersociability in Young Children with Williams Syndrome

**READING LIST 54 – General Content Area: Chromosome Breakage Syndromes - 2006**

1. Chromosome Breakage Syndromes and Cancer
2. DEB Test for Fanconi Anemia Detection in Patients with Atypical Phenotype
3. Nijmegen Breakage Syndrome: Clinical Manifestation of Defective Response to DNA Double-strand Breaks

**READING LIST 55 – General Content Area: Array Based Prenatal Genetics - 2006**

1. Array-based Comparative Genomic Hybridization Facilitates Identification of Breakpoints of a Novel der(1)t(1;18)(p36.3;q23)dn in a Child Presenting with Mental Retardation
2. Detection of Cryptic Chromosome Aberrations in a Patient with a Balanced t(1;9)(p34.2;p24) by Array-based Comparative Genomic Hybridization
3. Jumping Translocations in Multiple Myeloma

**READING LIST 56 – General Content Area: Leukemia - 2007**

1. Fluorescence *in situ* Hybridization Analysis of Minimal Residual Disease and the Relevance of the der(9) Deletion in Imatinib-treated Patients with Chronic Myeloid Leukemia
2. Characterization of the t(17;19) Translocation by Gene-specific Fluorescent *in situ* Hybridization-based Cytogenetics and Detection of the *E2A-HLF* Fusion Transcript and Protein in Patient's Cells
3. Combination of Broad Molecular Screening and Cytogenetic Analysis for Genetic Risk Assignment and Diagnosis in Patients with Acute Leukemia

**READING LIST 57 – General Content Area: Premature Chromosome Condensation - 2007**

1. Premature Chromosome Condensation in Humans Associated with Microcephaly and Mental Retardation: A Novel Autosomal Recessive Condition
2. Chromosome Condensation: DNA Compaction in Real Time
3. Phosphatase Inhibitors and Premature Chromosome Condensation in Human Peripheral Lymphocytes at Different Cell-Cycle Phases

**READING LIST 58 – General Content Area: Solid Tumor and FISH - 2007**

1. Methylthioadenosine Phosphorylase Gene Deletions are Frequently Detected by Fluorescence in situ Hybridization in Conventional Chondrosarcoma
2. Solid Pseudopapillary Neoplasms of the Pancreas are Associated with FLI-1 Expression, but Not with *EWS/FLI-1* Translocation
3. High Incidence of Chromosome 1 Abnormalities in a Series of 27 Renal Oncocytomas: Cytogenetic and Fluorescent In Situ Hybridization Studies

**READING LIST 59 – General Content Area: Treatment of Prader-Willi Syndrome with Growth Hormone**

1. Two Years of Growth Hormone Therapy in Young Children with Prader-Willi Syndrome: Physical and Neurodevelopmental Benefits
2. Growth Hormone Therapy and Scoliosis in Patients with Prader-Willi Syndrome
3. Cause of Sudden, Unexpected Death of Prader-Willi Syndrome Patients with or without Growth Hormone Treatment

**READING LIST 60 – General Content Area: Generics of Autism**

1. 15q11-13 GABAA Receptor Genes are Normally Biallelically Expressed in Brain yet are Subject to Epigenetic Dysregulation in Autism-Spectrum Disorders
2. Characterization of an Autism-Associated Segmental Maternal Heterodisomy of the Chromosome 15q11-13 Region
3. 15q Duplication Associated with Autism in a Multiplex Family with a Familial Cryptic Translocation t(14;15)(q11.2;q13.3) Detected Using Array-CGH

**READING LIST 61 – General Content Area: Genetics of Nicotine Addiction**

1. Fine Mapping of a Linkage Region on Chromosome 17p13 Reveals that GABARAP and DLG4 are Associated with Vulnerability to Nicotine Dependence in European-Americans
2. Genomewide Linkage Scan for Nicotine Dependence: Identification of a Chromosome 5 Risk Locus
3. Genetic Linkage to Chromosome 22q12 for a Heavy-Smoking Quantitative Trait in Two Independent Samples

**READING LIST 62 – General Content Area: Somatic Mutation Detection**

1. Inferring Somatic Mutation Rates Using the Stop-Enhanced Green Fluorescent Protein Mouse
2. Paternal Age at Birth is an Important Determinant of Offspring Telomere Length
3. Genome-Wide SNP Assay Reveals Structural Genomic Variation, Extended Homozygosity and Cell-line Induced Alterations in Normal Individuals

**READING LIST 63 – General Content Area: Polyglutamine Neurodegenerative Disorders**

1. CAG- Encoded Polyglutamine Length Polymorphism in the Human Genome
2. Polyglutamine Neurodegenerative Diseases and Regulation of Transcription: Assembling the Puzzle
3. Pathogenesis and Molecular Targeted Therapy of Spinal and Bulbar Muscular Atrophy

**READING LIST 64 – General Content Area: Clinical Applications of Noninvasive Diagnostic Testing**

1. Digital PCR for the Molecular Detection of Fetal Chromosomal Aneuploidy
2. Noninvasive Testing for Colorectal Cancer: A Review
3. Novel Blood Biomarkers of Human Urinary Bladder Cancer

**READING LIST 65 – General Content Area: Diabetes**

1. The Development of c-MET Mutation Detection Assay
2. Molecular Mechanisms of Insulin Resistance in Chronic Hepatitis C
3. A Genetic Diagnosis of HNF1A Diabetes Alters Treatment and Improves Glycaemic Control in the Majority of Insulin-Treated Patients

**READING LIST 66 – General Content Area: Diabetes**

1. Distribution of Human Papillomavirus Genotypes in Invasive Squamous Carcinoma of the Vulva
2. Distribution of HPV Genotypes in 282 Women with Cervical Lesions: Evidence for Three Categories of Intraepithelial Lesions Based on Morphology and HPV Type
3. Evaluation of Linear Array Human Papillomavirus Genotyping Using Automatic Optical Imaging Software

**READING LIST 67 – General Content Area: Pancreatic Cancer and its Biomarkers**

1. Molecular Profiling of Pancreatic Adenocarcinoma and Chronic Pancreatitis Identifies Multiple Genes Differentially Regulated in Pancreatic Cancer
2. Effect of Recombinant Adenovirus Vector Mediated Human Interleukin-24 Gene Transfection on Pancreatic Carcinoma Growth
3. Highly Expressed Genes in Pancreatic Ductal Adenocarcinomas: A Comprehensive Characterization and Comparison of the Transcription Profiles Obtained from Three Major Technologies

**READING LIST 68 – General Content Area: Influenza A(H1N1) Virus**

1. Detection of Influenza A(H1N1)v Virus by Real-Time RT-PCR
2. Economic Consequences to Society of Pandemic H1N1 Influenza 2009 – Preliminary Results for Sweden
3. Response after One Dose of a Monovalent Influenza A (H1N1) 2009 Vaccine — Preliminary Report

**READING LIST 69 – General Content Area: The Development of c-MET Mutation Detection Assay**

1. Somatic Mutations in the Tyrosine Kinase Domain of the MET Proto-Oncogene in Papillary Renal Carcinomas
2. Expression and Mutational Analysis of MET in Human Solid Cancers
3. Role of cMET Expression in Non-Small-Cell Lung Cancer Patients Treated with EGFR Tyrosine Kinase Inhibitors

**READING LIST 70 – General Content Area: Molecular Cardiology**

1. Identification of a Pleiotropic Locus on Chromosome 7q for a Composite Left Ventricular Wall Thickness Factor and Body Mass Index: The HyperGEN Study
2. Novel Quantitative Trait Locus is Mapped to Chromosome 12p11 for Left Ventricular Mass in Dominican Families: The Family Study of Stroke Risk and Carotid Atherosclerosis
3. Genome-Wide Association Study Identifies Single-Nucleotide Polymorphism in *KCNB1* Associated with Left Ventricular Mass in Humans: The HyperGEN Study

**READING LIST 71 – General Content Area: Detection of Clarithromycin Resistance in H. Pylori**

1. Rapid Detection of Clarithromycin Resistance in Helicobacter Pylori Using a PCR-based Denaturing HPLC Assay
2. Rapid Screening of Clarithromycin Resistance in Helicobacter Pylori by Pyrosequencing
3. Quadruplex Real-Time PCR Assay Using Allele-Specific Scorpion Primers for Detection of Mutations Conferring Clarithromycin Resistance to *Helicobacter pylori*

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