



AGT Journal Club Order Form

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 - *American Journal of Medical Genetics Part A, Volume 143A, Issue 5, pages 443-448, 1 March 2007*
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: Genomics 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*

READING LIST 72 – General Content Area: Werner Syndrome Gene

1. Telomeric protein TRF2 protects Holliday junctions with telomeric arms from displacement by the Werner syndrome helicase
2. WRN controls formation of extrachromosomal telomeric circles and is required for TRF2DeltaB-mediated telomere shortening
3. Sequence-specific processing of telomeric 3' overhangs by the Werner syndrome protein exonuclease activity

READING LIST 73 – General Content Area: Diagnosis of Melanoma Using Fluorescence in Situ Hybridization

1. Using Fluorescence in situ Hybridization (FISH) as an Ancillary Diagnostic Tool in the Diagnosis of Melanocytic Neoplasms
2. Transcriptomic versus Chromosomal Prognostic Markers and Clinical Outcome in Uveal Melanoma
3. Detection of Copy Number Alterations in Metastatic Melanoma by a DNA Fluorescence *In situ* Hybridization Probe Panel and Array Comparative Genomic Hybridization: A Southwest Oncology Group Study (S9431)

READING LIST 74 – General Content Area: Role of Short Interfering RNA in Gene Silencing

1. Highly Specific Gene Silencing by Artificial miRNAs in Rice.
2. Gene silencing by RNAi in mouse Sertoli cells.
3. Retrovirus-delivered siRNA.

READING LIST 75 – General Content Area: Multiple Myeloma: Molecular Markers and Tests

1. Multiple Myeloma: Lusting for NF- κ B
2. Functional Interaction of Plasmacytoid Dendritic Cells with Multiple Myeloma Cells: A Therapeutic Target
3. High-resolution genomic profiles define distinct clinico-pathogenetic subgroups of multiple myeloma patients

READING LIST 76 – General Content Area: Colorectal Cancer and Loss of Imprinting of IGF2

1. Loss of imprinting of IGF2 as an epigenetic marker for the risk of human cancer
2. Temporal stability and age-related prevalence of loss of imprinting of the insulin-like growth factor-2 gene.
3. Epigenetics at the Epicenter of Modern Medicine,

READING LIST 77 – General Content Area: Health Effects Associated with Disruption of Circadian Rhythms

1. Circadian Polymorphisms associated with Affective Disorders
2. A new approach to understanding the impact of Circadian Disruption on Human Health
3. Circadian Rhythm and its Role in Malignancy

READING LIST 78 – General Content Area: Role of Hedgehog Signaling Pathway in Diffuse Large B-Cell Lymphoma

1. Sonic hedgehog signaling proteins and ATP-binding cassette G2 are aberrantly expressed in diffuse large B-cell lymphoma
2. Sonic Hedgehog Signaling Pathway is Activated in ALK-Positive Anaplastic Large Cell Lymphoma
3. Sonic Hedgehog is Produced by Follicular Dendritic Cells and Protects Germinal Center B Cells from Apoptosis

READING LIST 79 – General Content Area: Whole Genome Amplification & 1986 Chernobyl, Ukraine Nuclear Power Plant Accident

1. BAC-FISH assays delineate complex chromosomal rearrangements in a case of post-Chernobyl childhood thyroid cancer.
2. Whole Genome Amplification Technologies - Eliminating the Concern Over Running Out of DNA Samples Mid Experiment.
3. A break-apart fluorescence in situ hybridization assay for detecting RET translocation in papillary thyroid carcinoma.

READING LIST 80 – General Content Area: Expression of miRNA in Diffuse Large B-Cell Lymphoma

1. Differentiation stage specific expression of microRNAs in B lymphocytes and diffuse large B-cell lymphomas.
2. Coordinated Expression of MicroRNA-155 and Predicted Target Genes in Diffuse Large B-cell Lymphoma.
3. Specific expression of miR-17-5p and miR-127 in testicular and central nervous system diffuse large B-cell lymphoma.

READING LIST 81 – General Content Area: The Genetics of Bipolar Disorder

1. Gene-wide analyses of genome-wide association data sets: evidence for multiple common risk alleles for schizophrenia and bipolar disorder and for overlap in genetic risk
2. Subcortical Gray Matter Volume Abnormalities in Healthy Bipolar Offspring: Potential Neuroanatomical Risk Marker for Bipolar Disorder?
3. Genetic and Environmental Influences on Pro-Inflammatory Monocytes in Bipolar Disorder

READING LIST 82 – General Content Area: Role and Detection of Human Endogenous Retroviruses in Rheumatoid Arthritis

1. Increase in Human Endogenous Retrovirus HERV-K(HML-2) Viral Load in Active Rheumatoid Arthritis.
2. A role for human endogenous retrovirus-K (HML-2) in rheumatoid arthritis: investigating mechanisms of pathogenesis
3. Lack of Detection of Human Retrovirus-5 Proviral DNA in Synovial Tissue and Blood Specimens From Individuals With Rheumatoid Arthritis or Osteoarthritis.

READING LIST 83 – General Content Area: Roles of Oncogenes in Breast Cancer

1. The Nuclear Receptor Coactivator Amplified in Breast Cancer-1 Is Required for *Neu* (ErbB2/HER2) Activation, Signaling, and Mammary Tumorigenesis in Mice.
2. Dysregulated miR-183 inhibits migration in breast cancer cells.
3. Current and emerging biomarkers in breast cancer: prognosis and prediction.

READING LIST 84 – General Content Area: Elevated Levels of Human Endogenous Retrovirus-W in Patients With First Episode of Schizophrenia

1. Elevated Levels of Human Endogenous Retrovirus-W Transcripts in Blood Cells From Patients With First Episode Schizophrenia.
2. Endogenous Retrovirus Type W GAG and Envelope Protein Antigenemia in Serum of Schizophrenic Patients.
3. Reduced Expression of Human Endogenous Retrovirus (HERV)- W GAG Protein in the Cingulate Gyrus and Hippocampus in Schizophrenia, Bipolar Disorder, and Depression.

READING LIST 85 – General Content Area: Esophageal Cancer

1. The Changing Face of Esophageal Cancer
2. Epidermal Growth Factor-Induced Esophageal Cancer Cell Proliferation Requires Transactivation of β -Adrenoceptors
3. Esophageal cancer risk by type of alcohol drinking and smoking: a case-control study in Spain

READING LIST 86 – General Content Area: *p53* Family and Its Role In Cancer

1. Telomere dysfunction suppresses spontaneous tumorigenesis in vivo by initiating *p53*-dependent cellular senescence.
2. Shaping genetic alterations in human cancer: the *p53* mutation paradigm.
3. *p53* polymorphisms: cancer implications.

READING LIST 87 – General Content Area: Proteins Involved with Chronic Myeloid Leukemia and Other Myeloproliferative Disorders

1. Gain-of-Function Mutation of JAK2 in Myeloproliferative Disorders.
2. Kinase domain mutants of Bcr enhance Bcr-Abl oncogenic effects.
3. Destabilization of Bcr-Abl/Jak2 Network by a Jak2/Abl Kinase Inhibitor ON044580 Overcomes Drug Resistance in Blast Crisis Chronic Myelogenous Leukemia (CML).

READING LIST 88 – General Content Area: DNA Topology

1. The why and how of DNA unlinking.
2. Bacterial DNA topology and infectious disease.
3. DNA topoisomerase II and its growing repertoire of biological functions.

READING LIST 89 – General Content Area: LPL Waldenstrom Macroglobulinemia

1. Spontaneous splenic rupture in Waldenstrom's macroglobulinemia.
2. How I Treat Waldenstrom's Macroglobulinemia.
3. International prognostic scoring system for Waldenström Macroglobulinemia.

READING LIST 90 – General Content Area: Next Generation Sequencing Platforms

1. Rapid whole-genome mutational profiling using next-generation sequencing technologies.
2. Combining Next-Generation Sequencing Strategies for Rapid Molecular Resource Development from an Invasive Aphid Species.
3. Evaluation of next generation sequencing platforms for population targeted sequencing studies.

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