M. Schmid
Department of Human Genetics
University of Würzburg
Biozentrum, Am Hubland
D-97074 Würzburg, Germany
Tel: (931) 888-4077; Fax: (931) 888-4069
Cytogenetics and molecular genetics of cancer, gene mapping

M.M. Le Beau
Department of Medicine
University of Chicago
Joint Section Hematology/Oncology
5841 S. Maryland Avenue, Box MC 2115
Chicago, IL 60637, USA
Tel: (312) 702-0795; Fax: (312) 702-3163
Gene mapping and cloning

T.W. Glover
Department of Human Genetics
4708 Med. Sci. II, Box 0618
University of Michigan
Ann Arbor, MI 48109-0618
Tel: (313) 763-5222; Fax: (313) 763-3784

S.L. Naylor
Department of Cellular and Structural Biology
The University of Texas Health Science Center
7703 Floyd Curl Drive
San Antonio, TX 78229, USA
Tel: (210) 567-3842; Fax: (210) 567-6781
Genetic regulation of cell malignancy

G. Klein
Microbiology and Tumor Biology Center (MTC)
Karolinska Institutet, Box 280
171 77 Stockholm, Sweden
Tel: (08) 728 64 00; Fax: (08) 33 04 98
Molecular cytogenetics and gene mapping

J.R. Korenberg
Medical Genetics Birth Defects Center
Cedars-Sinai Medical Center
1310 George Burns Road
Davis Bldg., Suite 2069
Los Angeles, CA 90048, USA
Tel: (310) 855-7627; Fax: (310) 652-8010
Molecular cytogenetics and molecular pathology

L.A. Cannizzaro
Department of Pathology
Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, NY 10461, USA
Tel: (718) 430-2898; Fax: (718) 892-1720
Somatic cell genetics

D. Bootsma
Department of Cell Biology and Genetics
Erasmus University
P.O. Box 1738
Rotterdam, The Netherlands
Tel: (010) 408 71 86; Fax: (010) 436-0225
U. Francke
Department of Genetics
Howard Hughes Medical Institute
Beckman Center for Molecular and Genetic Medicine
Stanford University Medical Center
Stanford, CA 94305-5428, USA
Tel: (415) 725-8089; Fax: (415) 725-8112
Molecular cytogenetics and molecular pathology
Chromosome Workshop


Original Articles

Improved simple generation of GTG-band specific painting probes 32 Yokoyama Y, Sakuragawa N

Aneuploidy in human sperm: results of two- and three-color fluorescence in situ hybridization using centromeric probes for chromosomes 1, 12, 15, 18, X, and Y Spriggs EL, Rademaker AW, Martin RH

Chromosome end associations, telomeres and telomerase activity in 86 ataxia telangiectasia cells Pandita TK, Pathak S, Geard CR

Simultaneous visualization of Q-bands and FISH signals using a novel 96 fluorochrome
Kondoh Y, Ono T, Kagiyama N, Fujita S, Momiyama M, Hori SH, Yoshida MC

**Gene Mapping, Cloning, and Sequencing**

Isolation and mapping of a human gene (PDCD2) that is highly homologous to *Rps8*, a rat gene associated with programmed cell death Kawakami T, Furukawa Y, Sudo K, Sato H, Takami S, Takahashi E, Nakamura Y

Lysosomal chitobiase (CTB) and the G-protein γ5 subunit (GNG5) genes co-localize to human chromosome lp22

Ahmad W, Li S, Chen H, Tuck-Muller CM, Pütter SJ, Aronson NN Jr

High-resolution mapping of SNCA encoding α-synuclein, the non-AB 54 component of Alzheimer’s disease amyloid precursor, to human chromosome 4q21.3→q22 by fluorescence in situ hybridization Shibasaki Y, Baillie DAM, St. Clair D, Brookes AJ

Localization of human CREBBP (CREB Binding Protein) to 16p13.3 56 by fluorescence in situ hybridization Chen X-N, Korenberg JR

Unique sequence STSs for 21 cytogenetically mapped loci on human 58 chromosome 19

Mohrenweiser HW, Tsujimoto S, Tynan K, Lamerdin J, Carrano AV

Localization of PURA, the gene encoding the sequence-specific single-stranded-DNA-binding protein Purα, to chromosome band 9q31. Ma Z-W, Pejovic T, Najfeld V, Ward DC, Johnson EM

Isolation and localization of transcribed sequences on human chromosome 22


Assignment of the human beta tropomyosin gene (TPM2) to band 9q14 by fluorescence in situ hybridisation Hunt CCJ, Eyre HJ, Akkari PA, Meredith C, Dorosz SM, Wilson SD, Callen DF, Laing NG, Baker E

**Animal Cytogenetics and Comparative Mapping**


Localization of the Chinese hamster MHC locus to chromosome band 1q17→q18 by fluorescence in situ hybridization Rassool FV, Neilly ME, McGuire KL, McKeithan TW, Le Beau MM

Construction and characterization of a highly stable human/mouse 68 monochromosomal hybrid panel for genetic complementation and genome mapping studies Cuthbert AP, Trott DA, Ekong RM, Jeazzard S, England NL, Themis M, Todd CM, Newbold RF

Localization of the genes encoding the three rat angiotensin II receptors, *Agtr1a*, *Agtr1b*, *Agtr2*, and the human AGTR2 receptor respectively to rat chromosomes 17q12, 2q24 and Xq34, and the human Xq22 Tissir F, Riviere M, Guo D-F, Tsuzuki S, Inagami T, Levan G, Szpirer J, Szpirer C

**Commentaries**

Mitochondrial DNA mutations in normal and tumor tissues from breast cancer patients Bianchi MS, Bianchi NO, Bailliet G

Assignment of LCN1 to human chromosome 9 is confirmed 104

Lassagne H, Nguyen VC, Mattei MG, Gachon AMF
Chromosome Workshop


Original Articles

Meiotic segregation of the X and Y chromosomes and chromosome 1, 126 analyzed by three-color FISH in human interphase spermatozoa Chevret E, Rousseaux S, Monteil M, Pelletier R, Cozzi J, Séle B

Lack of isodisomy for chromosome 22 in disomic meningiomas Blin N, Schneider G, Janka M, Subke F, Zang KD, Meese E

Molecular and cytological evidence of S-adenosyl-L-homocysteine as an innocuous undermethylation agent in vivo De Cabo SF, Santos J, Fernández-Piqué J

Gene Mapping, Cloning, and Sequencing

Localization of the gene for human 11 β-hydroxysteroid dehydrogenase type 2 (HSD11B2) to chromosome band 16q22 Krozowski Z, Baker E, Obeyesekere V, Callen DF

Molecular-cytogenetic refinement of the 12q14 → q15 breakpoint region affected in uterine leiomyomas Wanschura S, Hennig Y, Deichert U, Schoenmakers EFPM, Van de Ven WJM, Bartnitzke S, Bullerdieck J

Cytogenet Cell Genet, Vol. 71, 1995

High-resolution mapping of 10 unique DNA sequences to human chromosome 3 subregions by in situ hybridization Atchison L, Atchison ML, Cannizzaro LA

Construction of a panel of chromosome-specific oligonucleotide probes (PRINS-primers) useful for the identification of individual human chromosomes in situ Koch J, Hindkjaer J, Kølvraa S, Bolund L

FISH mapping of 22 novel X chromosome cosmids and the isolation of a novel microsatellite on proximal Xp Kamakari S, Thiselton D, Lindsay S, Hardcastle A, Bhattacharya S

Physical linkage of the cdc2-related gene (PCTK1) and the ubiquitin-activating enzyme gene (UBE1) on human Xq1 1.3 Knight JC, Renwick PJ, Downing JR, Okuda T


Mapping of the newly identified biliverdin-IX β reductase gene (BLVRB) to human chromosome 19q13.13 → q13.2 by fluorescence in situ hybridization Saito F, Yamaguchi T, Komuro A, Tobe T, Ikeuchi T, Tomita M, Nakajima H

Isolation, characterization and chromosomal assignment of human collagen-2 gene (CBP2)
Ikegawa S, Sudo K, Okui K, Nakamura Y

Construction of human embryonic cDNA libraries: HD, PKD1 and 197 BRCA1 are transcribed widely during embryogenesis Buraczynska MJ, Van Keuren ML, Buraczynska KM, Chang YS, Crombez E, Kurnit DM

Transcription patterns of sequences on human chromosome 21


Animal Cytogenetics and Comparative Mapping

In situ hybridization mapping of a 500-kDa calcium-sensing protein 120 gene (LRP2) to human chromosome region 2q31 → q32.1 and porcine chromosome region 15q22 → q24

Chowdhary BP, Lundgren S, Johansson M, Hjälm G, Akerström G, Gustavsson I, Rask L

Chromosomal localization of the reduced folate transporter gene 148 (SLC19A1) in Chinese hamster ovary cells Chen FPH, Williams FMR, Rogers KA, Flintoff WF

Chromosome painting with human chromosome-specific DNA libraries reveals the extent and distribution of conserved segments in bovine chromosomes Hayes H

FISH on metaphase and interphase chromosomes demonstrates the 175 physical order of the genes for GPL, CRC, and LIPE in pigs Chowdhary BP, de la Sena C, Harbizt I, Eriksson L, Gustavsson I

Assignments of the genes for rat pituitary adenylate cyclase activating polypeptide (Adcyap1l), Adcyap1r1, Adcyap1r3 (Adcyap1r3) Cai Y, Xin X, Yamada T, Muramatsu Y, Szpirer C, Matsumoto K

Editorial

New Journal size. New policy for gene mapping reports

Instructions for the preparation of gene mapping reports

Gene mapping forms

Original Articles

Meiotic segregation in males heterozygote for reciprocal translocations: analysis of sperm nuclei by two and three colour fluorescence in situ hybridization


Two-dimensional DNA typing as a genetic marker system in humans 260

Børglum AD, Mullaart E, Kvistgaard AB, Uitterlinden AG, Vijg J, Rørseth TA

Mapping segmental imbalances using comparative genomic hybridization and eigenanalysis

Haddad B, Antonacci R, Rizzu P, Lindsay EA, Hughes MR, Smith LC, Knapp RD, Baldini A

Assignment* of SLC6A9 to human chromosome band lp33 by in situ hybridization

Jones EMC, Fernald A, Bell GI, Le Beau MM

Assignment* of the gene SLC1A2 coding for the human glutamate transporter EAAT2 to human chromosomes 11 bands p13-p12/Li X, Francke U

Physical evidence for the position of the Friedreich’s ataxia locus FRDA proximal to D9S5

Hillermann R, See CG, Pook M, Wilkes D, Carvajal J, Doudney K, Williamson R, Chamberlain S

Gene Mapping, Cloning, and Sequencing

Assignment* of the gene interferon gamma gene (IFNG) to chromosome band 12q14 by fluorescence in situ hybridization

Zimonjic DB, Rezanka LJ, Evans CH, Polymeropoulos MH, Trent JM, Popescu NC
Physical and linkage mapping of human carbamyl phosphate synthetase I (CPS1) and reassignment from 2p to 2q35

A physical map of the region spanning the chromosome 12 translocation breakpoint in a mesothelioma with a (t(X;12)(q22;p13) Aerssens J, Guo C, Vermeesch J, Baens M, Browne D, Litt M, Van Den Berge H, Marynen P

Mapping the X chromosome breakpoint in two papillary renal cell carcinoma cell lines with a (t(X;1)(p11.2;q21.2) and the first report of a female case

Molecular analysis of a novel subtelomeric repeat with polymorphic chromosomal distribution

Cytogenet Cell Genet, Vol. 71, 1995


Assignment of the gene for human carbonic anhydrase VIII (CA8) to chromosome 8q11→q22
Bergenhem NCH, Sait SSJ, Eddy RL, Shows TB, Tashian RE

Mapping of synapsin II (SYN2) genes to human chromosome 3p and 301 mouse chromosome 6 band F
Li X, Rosahl TW, Südhof TC, Francke U

Animal Cytogenetics and Comparative Mapping

Multicolor FISH with a telomere repeat and Sry sequences shows that Sxr (Sex reversal) in the mouse is a new type of chromosome rearrangement
Ashley T, Lieman J, Ward DC

Eight new polymorphic microsatellites in mouse gene loci
Santos J, Perez de Castro I, Herranz M, Fernandez-Piqueras J

Localization of IGF 1and EDN genes to pig chromosomes 1 and 7 by in situ hybridization
Lahbib-Mansais Y, Gellin J

NOR and heterochromatin analysis in two cartilaginous fishes by C-, Ag- and RE (restriction endonuclease)-banding Stingo V, Odierna G, Bellitti M

Assignment of the uteroferrin gene (ACP5) to swine chromosome 4q21 by fluorescence in situ hybridization Yasue H, Kusumoto H, Mikami H

Colocalization of the rat homolog of the von Hippel Lindau (Vhl) gene and the plasma membrane Ca++ transporting ATPase isoform 2 (Atp2B2) gene to rat chromosome bands 4q13→42.1 Aldaz CM, Yeung RS, Latif A, Lerman MI, Xiao G, Trono D, Walker CL


A new reciprocal translocation (7q+: 15q-) in the domestic pig
Konfortova GD, Miller NG, Tucker EM
Erratum
No. 4

Chromosome Workshop

Report of the Sixth International Workshop on Human X Chromosome Mapping 1995

Abstracts of the 33rd Annual American Cytogenetics Conference 1995

Gene Mapping, Cloning, and Sequencing

The gene for the APC-binding protein β-catenin (CTNNB1) maps to 3p22, a region frequently altered in human malignancies Trent JM, Wiltshire R, Su LK, Nicolaides NC, Vogelstein B, Kinzler KW

Regional assignment of the human 4-hydroxyphenylpyruvate dioxygenase gene (HPD) to 12q24 → qter by fluorescence in situ hybridization Stenman G, Rötter E, Rüetschi U, Dellsén A, Rymo L, Lindstedt S

Isolation and mapping of the human EIF4A2 gene homologous to the murine protein synthesis initiation factor 4A-II gene Eif4a2 Sudo K, Takahashi E, Nakamura Y

Animal Cytogenetics and Comparative Mapping

The EcoRl centromeric satellite DNA of the Sparidae family (Pisces, 345 Perciformes) contains a sequence motive common to other vertebrate centromeric satellite DNAs Garrido-Ramos MA, Jamilena M, Lozano R, Ruiz Rejón C, Ruiz Rejón M

The rat Prm3 gene is an intronless member of the protamine gene 352 cluster and is expressed in haploid male germ cells Schlüter G, Engel W

Evidence for an unusual ZW/ZW7ZZ sex-chromosome system in Scarodon dinius erythrophtalmus (Pisces, Cyprinidae), as detected by cytogenetic and H-Y antigen analyses Koehler MR, Neuhaus D, Engel W, Scharl M, Schmidt M

Absence of geographic chromosomal variation in the roan and sable antelope and the cytogenetics of a naturally occurring hybrid Robinson TJ, Harley EH

Filling the gaps in the porcine linkage map: isolation of microsatellites 370 from chromosome 18 using flow sorting and SINE-PCR Ellegren H, Basu T

Assignment of the glucose transporter 1 gene (SLC2A1) to swine chromosome 6q34 → qter Kusumoto H, Yasue H

Independent chromosome segregation and absence of interchromosomal effect at first meiotic division in male Chinese hamsters heterozygous for two reciprocal translocations Sonta S, Tsukasaki M, Kohmura N, Suzumori K

Author Index Vol. 71, 1995 401
Subject Index Vol. 71, 1995 402

IV

Cytogenet Cell Genet, Vol. 71, 1995