CENTRE FOR HUMAN GENETICS
Bangalore

Advanced Course in Clinical Cytogenetics
12 to 14 November 2007

Faculty
A. Schinzel (Zurich), Caroline Ogilvie (London), S. S. Agarwal (Lucknow), I. C. Verma (New Delhi),
Alessandra Baumer (Zurich), D. S. Krishnamurthy (Dubai/Bangalore), Sabitha Krishnamurthy (Dubai/
Bangalore), Arun Kumar (Bangalore), Jayarama Kadandale (Bangalore), Meenakshi Bhat (Bangalore)
and others.

Provisional Programme

Day 1 Monday, November 12, 2007

ISCN 2005 guidelines for nomenclature of human chromosomes and their structural alterations;
Application of fluorescence in situ methods in the study of numerical and structural aberrations; Genomic
imprinting and disorders of imprinting: The ‘harmless chromosome aberration’: Aberrations with no or
minor impact on the phenotype; Mosaics, chimeras and complex chromosome rearrangements; Prenatal
cytogenetics; Chromosome aberrations in spontaneous abortions and stillbirths; genetics of infertility &
recurrent miscarriages; Pre-implantation genetic diagnosis; QF PCR & other newer methods in prenatal
diagnostics. [Optional laboratory workshop]

Day 2 Tuesday, November 13, 2007

Pre-versus postnatal developmental pathology. Genetic versus environmental causes: clues from clinical
examination; Clinical findings associated with chromosome aberrations. (1) Dysmorphic patterns and
malformations; Dysmorphologic and auxiologic measurements and standards for the clinical examination;
Clinical findings associated with chromosome aberrations. (2) Growth, puberty, special behavioural
pathology; The adult and elderly patient with a chromosome aberration; Standards and guidelines for the
cytogenetics laboratory; Standards for preparing a cytogenetics report; Quality control in prenatal
diagnostics; Creation & maintenance of a cytogenetics database; Overview of genetic registries in India.

Day 3 Wednesday, November 14, 2007

Mechanisms of formation and origin of chromosome aberrations; Why are certain structural aberrations
more frequent than others?; Contiguous gene syndromes: Discussion of some cases from India;
Genome-wide tiling path array CGH in the study of apparently balanced chromosome rearrangements;
Micro-array analysis for telomere deletions; Genetic counselling – social and regional differences; The
most frequently encountered ethical issues; Panel discussion. [Optional laboratory workshop]

Applications will be received until October 31, 2007

Registration Information and other details can be obtained from:

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