

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	OML specification
4.1	Specification requirements and OML positioning
4.2	OML Structure
4.3	OML DTD and XML Schema
5	OML development process
6	Figures
Annex A	(informative) Reference works
A.1	Introduction
A.2	Use case analysis
A.2.1	General
A.2.2	Overview
A.2.3	Use case of SNP analysis as an example of Omics analysis
A.2.4	UML example of SNP analysis as an example of Omics analysis
A.2.5	Use case of database integration
A.2.6	Use case and required elements
A.3	Diversity of SNP databases
A.3.1	General
A.3.2	Diversity of databases
A.3.3	Diversity of data representation
A.3.4	Diversity of sequence variation data representation
A.4	Markup language comparison
A.4.1	General
A.4.2	Mapping of each markup language to the data categories
A.4.2.1	The MicroArray Gene Expression Markup Language (MAGE-ML)
A.4.2.2	The Bioinformatic Sequence Markup Language (BSML)
A.4.2.3	The Systems Biology Markup Language (SBML)
A.4.2.4	The RNAML
A.4.2.5	The PolyMAPr
A.4.3	OML originated needs and specifications
A.5	Interface analysis to Health Level Seven®
A.5.1	General
A.5.2	Comparison with HL7® genomics model
A.5.2.1	General
A.5.2.2	Entry point
A.5.2.3	Structure
A.5.2.4	Contents
A.5.3	Information Model of Genotype in HL7®
A.6	Interface analysis to the ISO 13606 series
A.7	Interface analysis to SNOMED-CT®
A.8	Interface analysis to WHO-ICD iCOS
A.9	Figures
A.10	Tables