

Contents

Preface and Acknowledgments VII

Abbreviations XI

1	Introduction	1
1.1	Introduction and Usage of This Book	1
1.2	General Remarks	2
2	Basic Cell Culture Techniques	5
2.1	Safety Precautions for Frozen Cell Lines	5
2.2	Sterile Working	5
2.3	Handling Procedure for Cell Lines	5
2.3.1	Frozen Cells	5
2.3.2	Receipt of Growing Adherent Cultures in T-flasks	6
2.3.3	Receipt of Growing Suspension Cultures	6
2.3.4	Medium Replacement of Cells in Suspension	6
2.3.5	Subculture of Cells in Suspension	7
2.3.6	Subculture of Adherent Cells	7
2.3.7	Subculture of Mixed Cell Lines (Adherent and Floating Cells)	7
2.3.8	Cell Counting	7
2.3.9	Cryopreservation of Cell Lines	7
2.3.10	Long Term Storage of Cells	8
2.3.11	Detection and Elimination of Contaminations	8
2.3.12	Cross-contaminations/Authentication	9
2.4	Special Remarks on the Origin of the Cell Lines	9
2.5	Photographic Equipment	9
3	List of Cell Lines and Human Primary Cells (in Alphabetical Order)	11
3.1	Human Cell Lines	11
3.2	Animal Cell Lines	12
3.2.1	Rat	12
3.2.2	Mouse	12
3.2.3	Hamster	13
3.2.4	Chicken	13

VI | Contents

3.2.5	Monkey	13
3.2.6	Pig	13
3.2.7	Opossum	13
3.2.8	Potoroo	13
3.2.9	Bovine	13
3.2.10	Dog	14
3.2.11	Insect	14
3.3	Human Primary Cells	14

4 Cell Lines and Human Primary Cells 15

4.1	Human Cell Lines	15
4.2	Animal Cell Lines	341
4.2.1	Rat	341
4.2.2	Mouse	367
4.2.3	Hamster	433
4.2.4	Chicken	437
4.2.5	Monkey	443
4.2.6	Pig	451
4.2.7	Opossum	457
4.2.8	Potoroo	461
4.2.9	Bovine	467
4.2.10	Dog	471
4.2.11	Insect	475
4.3	Human Primary Cells	479

Appendix A: Materials and Suppliers 493**Appendix B: Suppliers of Cell Culture Materials 497****Further Reading 501****Index 503**