

Content

Preface	9
Second Preface	11
Preface to the English edition	13

Part I: Disease and Therapy

1. The biological aspects of AIDS	18
1.1 Immune deficiency	18
1.1.1 The mechanism of immune resistance	20
1.1.1.1 Circulating antibodies	22
1.1.1.2 Cellular antibodies	26
1.1.1.3 First ideas of the AIDS mechanism	28
1.2 General statements on the virus infection	29
1.2.1 The HIV Aids virus	34
1.3 Reverse transcription – transcription of the RNA genome into a DNA genome	37
1.3.1 The reproduction of the HIV	38
1.3.2 The HIV antibodies	39
1.3.2.1 The anti-p24 antibodies	39
1.3.2.2 The anti-gp120 antibody	42
1.4 The discovery of the AIDS virus	43
1.5 AIDS research in a blind alley	45
1.6 New ways towards an understanding of AIDS	46
1.6.1 New findings are sabotaged	49
1.7 Facts on the function of the macrophages	50
2. The cell-physiological aspects of AIDS	53
2.1 A modern description of the stages of AIDS development	53
2.1.1 The primary infection of AIDS	55
2.1.2 The seroconversion, or the second formation of an immunity	58
2.1.2.1 Immunization	61
2.1.3 The latent period – a space of time without clinical symptoms	63
2.1.4 Lymphadenopathy – a disease of the T4-cells	65
2.1.5 Anergy, or the reduced capacity to form antibodies against new pathogens	66
2.1.6 The partial disappearance of the T4-cells	66
2.1.7 The tumor necrosis factor α irritant	68

2.2	The symptomatic phases of AIDS	69
2.2.1	AIDS-Related Complex (ARC) – a systemic inflammation in all parts of the body	69
2.2.2	Full-blown AIDS, or the terminal stage of AIDS ...	72
2.2.2.1	The opportunistic infections and their result of destruction of the thymus	72
2.2.2.2	AIDS associated tumors	75
2.2.2.3	Tuberculosis as a new opportunistic infection	76
2.3	The thymus – the center of maturity of immunity cells ...	78
2.3.1	The double function of the thymus	80
2.4	The T4-syndrome and the macrophage syndrome	82
2.4.1	The macrophages and the T4 cells during primary infection	82
2.4.2	The macrophages and the T4-cells during the latency period	83
2.4.3	The function of the macrophages and the T4-cells in the ARC and in full-blown AIDS	85
2.5	The visna disease and AIDS	85
2.6	The animal model – a great help in the development of therapeutical procedures	87
3.	The Therapy of AIDS	89
3.1	Classical therapy of AIDS	89
3.1.1	Beginning of therapy	89
3.1.2	Therapy for virus diseases	92
3.1.3	Azidothymidine	96
3.2	Early therapy of AIDS	101
3.2.1	Early therapy by means of passive immunization with the anti-p24 antibody	105
3.2.2	Early therapy with acetylsalicylic acid (ASA)	106
3.2.3	Zinc	117
3.3	Reflections on the ethics of the early therapy of AIDS ..	118
3.4	The testing of early therapy	122
3.4.1	Tumor necrosis factor α in early therapy	124
3.4.2	The B2-microglobulin (B2-M) – a measure of the advancement of the inflammatory processes within the body	125
3.4.3	Counting the T4 and T8 cells	127
3.5	Natural therapeutic methods	128
4.	AIDS – every man for himself!	133

Part II:

The role of the pharmaceutical corporations and AIDS therapy

- 5. Manipulations and censorship in AIDS research, teaching and therapy138**
 - 5.1 Manipulation and fraud in the licensing of azidothymidine (AZT) 138
 - 5.2 The health service in the nets of the pharmaceutical industry 150
 - 5.3 We want to live! A victory over the people boycotting the malaria vaccine 162
 - 5.4 The HIV-pollution of stored blood units – an unatoned crime of pharmaceutical firms and governments 169
 - 5.5 The manipulation of public opinion by the mass media 184

Part III:

AIDS in human life

- 6. The epidemiology of AIDS192**
 - 6.1 The geographical dissemination of AIDS 192
 - 6.2 Further development of the epidemic 198
- 7. Protective measures against HIV-infections201**
 - 7.1 The detection of the virus 201
 - 7.1.1 Virus cultures 201
 - 7.1.2 The detection of antibodies 203
 - 7.2 Infection 205
 - 7.3 Safer sex 211
 - 7.3.1 Professor Duesberg and the AIDS rebels 214
- 8. Sociological aspects of AIDS221**
 - 8.1 Family, school and occupation 221
 - 8.2 The pregnancy problem 224
 - 8.3 Safe living in tropical conditions 226
 - 8.4 Governments have problems with AIDS 230

Part IV:

Nature and origin of the AIDS virus

- 9. The genome structure of the AIDS virus234**
 - 9.1 First problems with the origin of the virus 234
 - 9.2 More about genome structure 237
 - 9.2.1 The coding of different retroviruses 238

9.2.2 Direct comparison of the genomes of Visna virus and HIV	239
9.2.3 Genome comparison by means of heteroduplex hybridization	247
9.2.4 The structure of HIV	251
9.2.5 The geometrical transformation of Visna virus into HIV	257
10. The production of the AIDS virus	261
10.1 Who needs a new virus?	261
10.2 The AIDS virus is constructed and escapes	269
11. The legend of the Green Monkey	275
11.1 The monkey-farce	275
11.2 Science versus fiction	279
11.3 New viruses	284
11.4 A new variety of AIDS	286
11.5 New viruses and no end	293
12. The tale about the African jungle village	297
12.1 The AIDS-explosion in Africa	297
12.2 The first AIDS cases in Africa	303
12.3 Immunological problems in African AIDS	310
12.4 Specific climatic conditions in Equatorial Africa	317
12.5 Rural or urban origin of AIDS in Africa	324
13. Polemics on the origin of AIDS	329
13.1 Biological problems	329
13.2 Political aspects	340
14. Conclusions	349

Part V:

Documents and Registers

15. Documentary Appendix	354
15.1 APPENDIX 1	354
15.2 APPENDIX 2	365
15.3 Appendix 3	370
16. Registers	373
16.1 Bibliography	373
16.2 Glossary	397
16.3 Index	409
Obituary of the death of Jakob Segal.....	422