Contents

Introduction 7

ABOUT THE PROJECT 9

The National Institute of Virology and Bacteriology 10

Organisational and Management Structure 11

Research management of the NIVB project 14

RESEARCH PROGRAMMES 21

Research Programme 1– Pathogen-host interactions 22

Research Programme 2 – Immunity against viruses and bacteria 25

Research Programme 3 – Treatment of viral and bacterial infections 27

NIVB RESEARCH 29

Institute of Organic Chemistry and Biochemistry of the CAS (IOCB) 31

Evžen Bouřa 32

Milan Kožíšek 34

Radim Nencka 36

Iva Pichová 38

Dominik Rejman 40

Jan Weber 42

University of Chemistry and Technology, Prague (UCT) 45

Michaela Rumlová 46

Masaryk University (MUNI) 49

Gabriel Demo 50

Roman Pantůček 52

Pavel Plevka 54

David Šmajs 56

Petr Těšina 58

Robert Vácha 60

Institute of Molecular Genetics of the CAS (IMG) 63

Jiří Hejnar 64

Ondřej Štěpánek 66

Charles University (CU) **69**
Pavel Dřevínek 70
Klára Grantz Šašková 72
Jaroslav Hrabák 74
Sandra Huerfano Meneses 76
Martin Pospíšek 78
Jaroslav Roh 80
Ruth Tachezy 82
Petr Volf 84
Jiří Zahradník 86
Palacký University Olomouc (UP) **89**
Milan Kolář 90
Miloš Petřík 92
Institute of Microbiology of the CAS (IMIC) **95**
Jiří Janata 96
Libor Krásný 98
Peter Šebo 100
Biology Centre CAS (BC) **103**
Daniel Růžek 104

LIFE OF THE NIVB PROJECT 107
Awarded projects 108
NIVB is part of the Global Virus Network 109
Published results 110
Collaborations 111
1. The collaboration of the NIVB research teams within the consortium 111
2. The collaboration of the NIVB research teams at the national level 112
3. The collaboration of the NIVB research teams at the international level 113
Education and training 114
Applied Research 115
Collaboration with public health institutions 116
Equipment and infrastructure 117

NIVB IN PICTURES 119