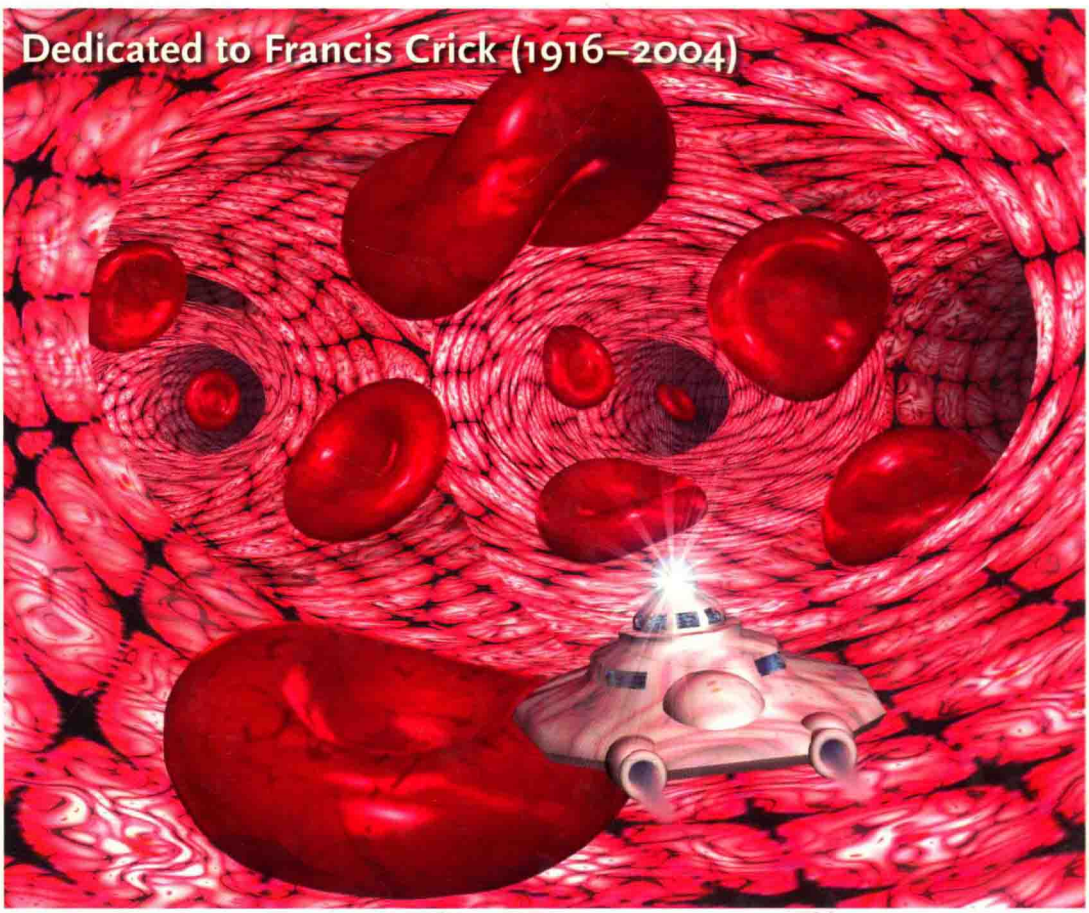
Edited by Jörg Knäblein

WILEY-VCH

Modern Biopharmaceuticals

Design, Development and Optimization

Volume 4



Modern Biopharmaceuticals

Volume 4

Design, Development and Optimization

Edited by
Jörg Knäblein

WILEY-VCH Verlag GmbH & Co. KGaA

Editor

Dr. Jörg Knäblein
Head Microbiological Chemistry
Schering AG
Müllerstraße 178
13342 Berlin
Germany

Library of Congress Card No.:
applied for

British Library Cataloguing-in-Publication Data
A catalogue record for this book is available from the British Library

Bibliographic information published by Die Deutsche Bibliothek
Die Deutsche Bibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data is available in the Internet at http://dnb.ddb.de.

Printed in the Federal Republic of Germany
Printed on acid-free paper

Cover Tim Fonseca, www.fonsecatim.com
Typsetting K+V Fotosatz GmbH, Beerfelden
Printing betz-druck GmbH, Darmstadt
Bookbinding J. Schäffer GmbH, Grünstadt

ISBN-13 978-3-527-31184-2
ISBN-10 3-527-31184-X

Jörg Knäblein (Ed.)

Modern Biopharmaceuticals

Further Titles of Interest

Gary Walsh

Biopharmaceuticals
Biochemistry and Biotechnology

2003
ISBN 0-470-84326-8

Gary Walsh

Proteins
Biochemistry and Biotechnology

2001
ISBN 0-471-89907-0

Rodney J.Y. Ho, Milo Gibaldi

Biotechnology and Biopharmaceuticals
Transforming Proteins and Genes into Drugs

2003
ISBN 0-471-20690-3

Chi-Huey Wong (Ed.)

Carbohydrate-based Drug Discovery

2003
ISBN 3-527-30632-3

Oliver Kayser, Rainer H. Müller (Eds.)

Pharmaceutical Biotechnology
Drug Discovery and Clinical Applications

2004
ISBN 3-527-30554-8

Rainer Fischer, Stefan Schillberg (Eds.)

Molecular Farming
Plant-made Pharmaceuticals and Technical Proteins

2004
ISBN 3-527-30786-9

Martin Schleef (Ed.)

DNA-Pharmaceuticals
Formulation and Delivery in Gene Therapy and DNA Vaccination

2005
ISBN 3-527-31187-4

Rolf D. Schmid, Ruth Hammelehle

Pocket Guide to Biotechnology and Genetic Engineering

2003
ISBN 3-527-30895-4

Contents

Volume 1

Modern Biopharmaceuticals. Edited by J. Knäblein

ISBN: 3-527-31184-X

Volume 2

Volume 3

Volume 4