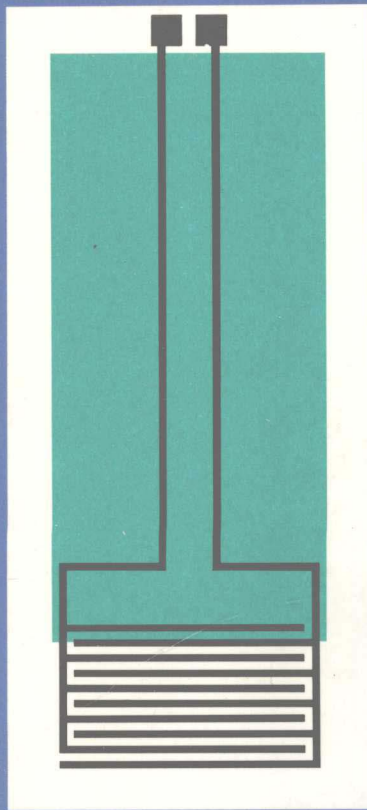
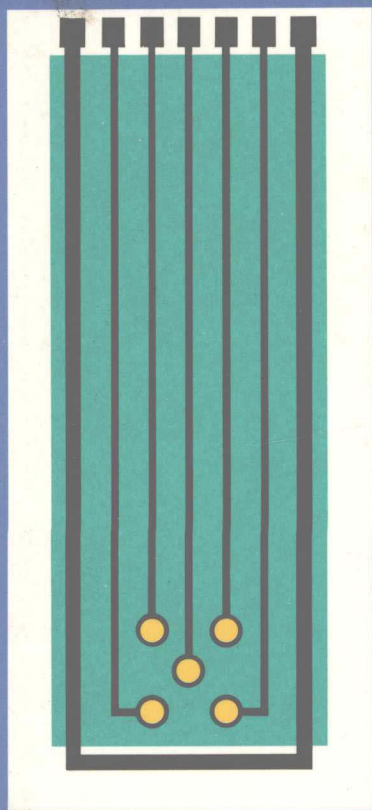


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Biosensors: Fundamentals, Technologies and Applications

Edited by
F. Scheller
R.D. Schmid



VCH 

Biosensors: Fundamentals, Technologies and Applications

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R.D. Schmid

**Contributions to the
BMFT Status Seminar
with International Participation
May, 12 to 14, 1991
Internationales Bildungs-Centrum
Bogensee/Brandenburg, Germany**

Organized by ZIM-Zentralinstitut
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and GBF, Braunschweig

Biosensors — Congresses.

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Preface

Since the last German status seminar on biosensors was held at the GBF in May, 1989, with many participants from the German-speaking countries (Austria, Switzerland and, at that time, the German Democratic Republic), Germany has become united. This alone was reason enough to organize, for the first time, a true "All-German Biosensor Meeting" - a task undertaken jointly by the Gesellschaft für Biotechnologische Forschung (GBF) in Braunschweig and by the Zentralinstitut für Molekularbiologie (ZIM) in Berlin-Buch, with the support of the Bundesministerium für Forschung und Technologie (BMFT) [the National Ministry of Research and Technology, Bonn].

As a format, the organizers chose not only to invite as many researchers in the field of biosensors from Germany as possible but also to expand the perspective of the meeting by inviting top-experts from the international biosensor community. As a result, almost 150 scientists from German institutes and companies and 15 foreign experts from Austria, Bulgaria, France, Japan, the USSR and its member states, the United Kingdom, the United States of America, Sweden and Switzerland gathered from May 12 to 14 at the Bogensee Center near Berlin.

The presentations included different types of biological recognition elements (e.g. enzymes, microbes, antibodies, receptors and lipid membranes), as well as a broad range of transducers (e.g. electrodes, optodes, FETs and piezoquartzes).

During the second day of the meeting, international developments in the field could be overviewed thanks to the presentations of leading foreign experts. Finally, in a farewell meeting at the Walther-Nernst-Auditorium of the famous Humboldt University, a historic outline of this famous place, kindly offered by Prof. H. Bartelt of the Humboldt University, was followed by remarkable lectures from Prof. I. Karube of RCAST Tokyo and Prof. P. Fromherz of Ulm University.

The presentation of work during the conference was structured according to the regional activities in biosensor R & D throughout Germany. The editors have chosen to stick to this schedule since it allows easy identification of the projects of each individual group. To facilitate understanding for the non-German readers of these proceedings, the locations of the laboratories present at the meeting are indicated in Fig. 1.

Fig. 1: Biosensor Map of Germany, 1991



The organizers of the meeting who are also the editors of this monograph wish to express their gratitude to the BMFT and the GBF for their very significant financial support, as well as to many staff members of the GBF and the ZIM, of which the names of Birgit Balster, Heidi Rabe, Silvia Schmidt, Margit Henselmann, may serve just as examples. Their tireless help made it possible to prepare and manage the conference successfully. Further thanks are due to Dr. J.-H. Walsdorff as the copy editor of this monograph, and to Ms. Doris Perl for carefully editing the manuscripts.

Berlin and Braunschweig, October 1991

Frieder Scheller
Rolf D. Schmid

List of Authors

- Abel, P. 361
Aberl, F. 123
Achtnich, U. 527
Acker, H. 337, 341
Atanasow, P. 501
Aubeck, R. 153
Aurich, H. 303
Baumeyer, T. 307
Bechtold, F. 109
Beck, W. 170
Beyersdorf-Radeck, B. 55, 189
Bier, F. F. 189, 205
Bilitewski, U. 189, 199, 109,
217, 393
Binder, F. 129
Biselli, M. 349
Blum, L. J. 419
Bobrin, S. 501
Bradley, J. 209, 403
Bräuchle, C. 145, 153
Brand, U. 311
Brandes, L. 311
Brecht, A. 174
Bredehorst, R. 453
Bücke, R. 265
Butt, S. B. 79
Cammann, K. 71, 75, 79, 83, 87, 91
Chang, S.-M. 331
Charles, P. T. 453
Chen, L. 461
Comtat, M. 387
Cooper, J. C. 107
Coulet, P. R. 419
D'Costa, E. 209, 403
Denk, V. 119
Ding, T. 209, 217
Dittrich, J. 307
Dransfeld, I. 61
Draxler, S. 259
Dremel, B. A. A. 221, 255, 259
Drewes, W. 199
Drost, S. 123, 129
Eberhardt, R. 349
Ebert, B. 43, 331
Emons, H. 287
Eppelsheim, C. 287
Erbach, R. 353
Erdmann, H. 239, 245, 255
Fahrenbruch, B. 51
Falter, T. 345
Ferretti, R. 311
Fiechter, A. 531
Filipini, C. 531
Fischer, U. 361
Fromherz, P. 379
Fuhrmann, B. 291
Gamburzev, S. 501
Garn, M. B. 511
Gauglitz, G. 174
Gnewuch, G. 265
Gomoll, M. 275
Göpel, W. 35, 178

- Görlach, A. 341
 Gründig, B. 275
 Gruß, R. 35
 Günther, R. 19
 Guilbault, G. G. 491
 Gutberlet, F. 97
 Haemmerli, S. D. 511
 Hämmerle, M. 97, 111
 Hajizadeh, K. 443
 Hall, G. F. 409
 Hampp, N. 145, 153
 Hanke, T. 43
 Heiduschka, P. 307
 Heilig, U. 174
 Higgins, I. J. 209, 403, 409
 Hilpert, R. 129
 Hintsche, R. 61
 Hödl, C. 535
 Hoffmann, B. 353
 Holtermann, G. 337, 341
 Huang, Y. 221
 Hucho, F. 435
 Hübner, U. 321
 Hummel, W. 381
 Hundeck, H. G. 321
 Jähning, F. 164
 Jansen, K. 265
 Jockers, R. 235
 Jönsson, U. 467
 John, E. 164
 Johansson, G. 505
 Jokschi, B. 349
 Juelich, W.-D. 361
 Jung, G. 170
 Kainz, U. 535
 Kaiser, G. 25
 Kaisheva, A. 501
 Kaliz, H. 259
 Kallabis, B. 71
 Kasche, V. 265
 Karube, I. 331, 477
 Keck, F. S. 369, 375
 Kerner, W. 369, 375
 Kiefer, H. 164
 Kindervater, R. 178, 189
 Klein, K.-D. 331
 Klinger, E. 51
 Klimes, N. 11, 51
 Klee, B. 164
 Knichel, M. 178
 Knoll, M. 87
 Koch, S. 123, 129
 Koch, V. 311
 Kondruweit, S. 245, 255
 Kopinke, H. 275
 Kößlinger, C. 123, 129
 Kotte, H. 275
 Krabisch, C. 275
 Krämer, P. 189
 Krause, J. 79, 91
 Krawczinski, T. 521
 Kreutzer, R. 251
 Kühn, M. 3
 Kühnel, S. 19
 Kullik, T. 311
 Kulys, J. 393
 Kuo, H.-H. 443
 Kusterbeck, A. W. 453
 Lang, D. 239
 Ligler, F. S. 453
 Lippitsch, M. E. 259
 Löffler, U. 35

- Lübbert, A. 321
 Luedi, H. 511
 Makower, A. 11
 Manns, A. 359
 Manz, A. 511
 Matsumoto, K. 225
 Matuszewski, W. 521
 Medina, R. 97
 Meiwes, D. 87
 Merten, A. 51
 Metzger, J. 170
 Meyer, H. 83
 Meyerhoff, C. 369
 Meyerhoff, M. E. 521
 Mikolajick, T. 345
 Möller, B. 61
 Moges, G. 505
 Mohr, K.-H. 291
 Müller, E. 19, 129
 Narziß, L. 119
 Neubauer, A. 535
 Neumann, B. 51, 55
 Oesterheld, D. 145
 Ottenbacher, D. 178
 Paek, S.-H. 443
 Park, H.-J. 245, 251
 Pfeiffer, E. F. 369, 375
 Pfeiffer, D. 311
 Pitzler, R. 275
 Pol, van der J. J. 345
 Popp, A. 145
 Prasad, S. 311
 Pum, D. 535
 Ramsden, J. 435
 Reichert, M. 174
 Reinhart, B. 311
 Reiser, C. 245, 251
 Renken, E. 265
 Renneberg, R. 3, 25
 Renner, T. 145
 Riedel, K. 51, 55
 Rindt, K.-P. 359
 Ritter, J. 129
 Roß, B. 87
 Rohen, A. 91
 Rüger, P. 189, 199
 Rütther, F. 311
 Ryssel, H. 345
 Sackmann, E. 133
 Saini, S. 47
 Sára, M. 535
 Schaffar, B. 259
 Scheller, F. 3, 11, 31, 35, 43, 47, 51, 55, 61
 Scheper, T. 311, 321
 Schietke, G. 265
 Schmid, R. D. 55, 189, 205, 209, 217, 221, 229, 235, 239, 245, 251, 255
 Schmidt, H.-L. 87, 107, 111, 119
 Schmidt, J. 321
 Schmidt, T. 287
 Scholtissek, S. 359
 Scholze, J. 153
 Schrader, U. 119
 Schramm, W. 443
 Schreier, W. 535
 Schubert, F. 3, 47, 321
 Schügerl, K. 311
 Schuhmann, W. 97, 107, 111, 115
 Schulmeister, T. 11, 61, 65
 Setz, K. 11

- Siegler, K. 303
Skoog, M. 501
Sleytr, U. B. 535
Sonnleitner, B. 531
Spener, F. 71
Spohn, U. 291
Sprinzl, M. 245, 251
Stamm, W. 209
Stein, H. J. 51
Stelzle, M. 133
Stierhof, J.- D. 164
Sting, S. 381
Stöcklein, W. 205
Strehlitz, B. 275
Striebel, C. 174
Suleiman, A. A. 491
Taha, Z. 461
Tamiya, E. 331
Thielemann, H. 275
Thoma, R. 145
Tiefenauer, L. X. 527
Tonder, K. 303
Tramper, J. 349
Trojanowicz, M. 521
Turner, A. P. F. 47
Uhe, B. 97
Ukeda, H. 225
Ulrich, R. 265
Unverhau, K. 303
Vahjen, W. 209
Vogel, A. 353
Vogel, C.-W. 453
Vogel, H. 435
Wandrey, C. 249
Wang, J. 31, 461
Wang, S. 311
Warsinke, A. 25
Weber, E. 303
Weber, B. 303
Weide, H. 303
Weissmüller, G. 133
Weiß, M. 321
Wemhoff, G. A. 453
Wendel, U. 381
White, S. 209, 403
Widmer, H. M. 511
Wiesmüller, K.-H. 170
Wilhelm, D. 311
Winter, B. 75
Witzel, H. 87
Woedtke, von T. 361
Woiass, P. 123
Wolfbeis, O. S. 259, 425
Wolf, H. 123
Wollenberger, U. 3, 31, 35, 43
Wu, L.-U. 461
Wu, X. 311
Yang, X. 505
Yoshioka, S. 225
Zaitsev, S. Y. 43
Zeisel, D. 145
Zier, H. 369, 375

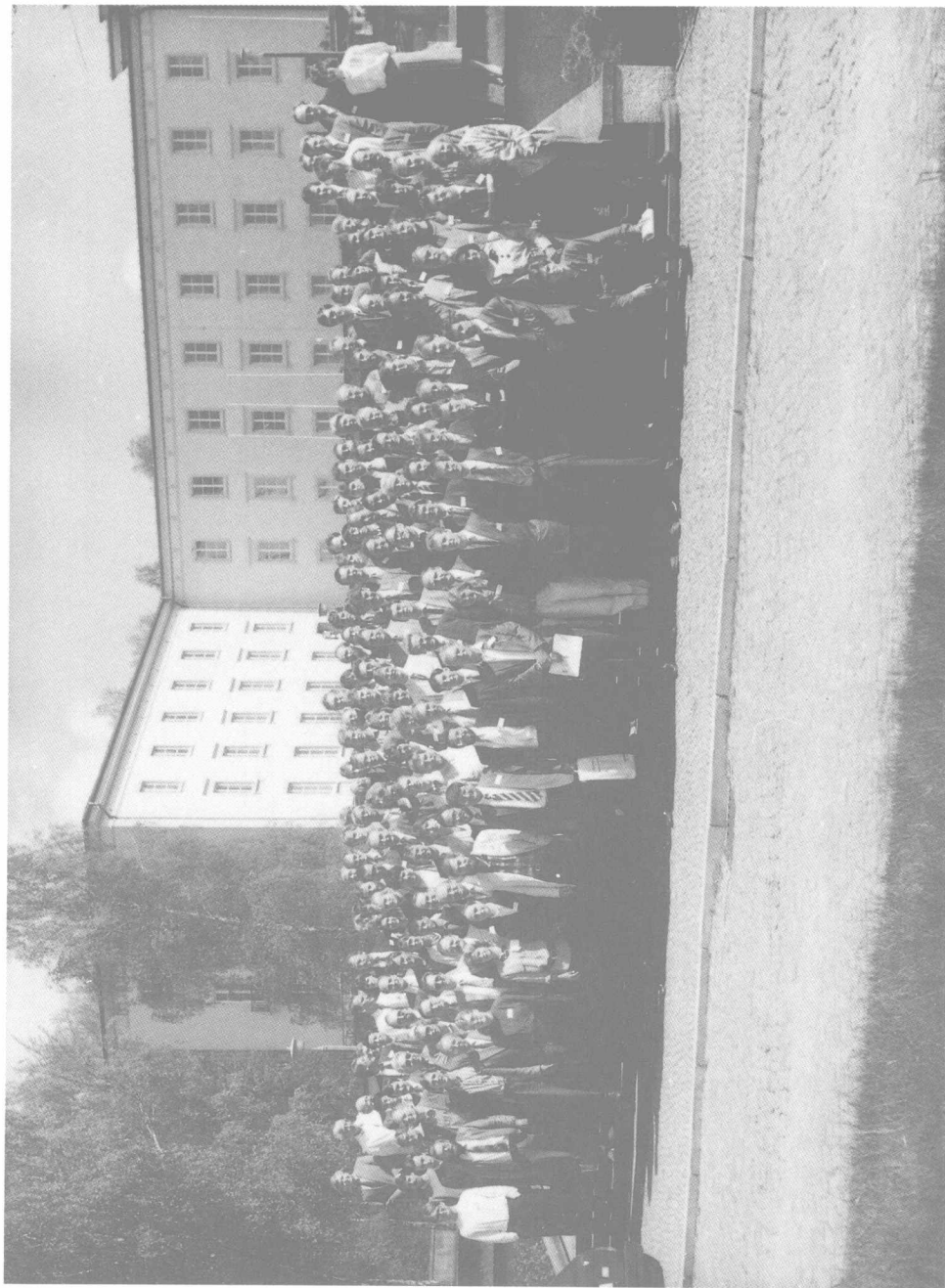


Foto of the Participants of the Biosensor Meeting at Bogensee/Brandenburg May, 1991

Contents

List of Authors XV

Photo of the Participants XIX

I. BMFT Status Seminar on Biosensor Activities in Germany 1

a. Berlin 1

Fifteen Years of Biosensor Research in Berlin-Buch 3

F. Scheller, F. Schubert, D. Pfeiffer, U. Wollenberger, R. Renneberg, R. Hintsche, M. Kühn

Enzyme Electrodes for Medical Applications 11

D. Pfeiffer, K. Setz, N. Klimes, A. Makower, T. Schulmeister, F. Scheller

Use of Biosensors in Analyzers for Clinical-Chemical Laboratories 19

E. Müller, S. Kühnel, R. Günther

Amperometric Immunosensors for Bioprocess Control 25

R. Renneberg, A. Warsinke, G. Kaiser

Biosensing of Organic Peroxides 31

U. Wollenberger, J. Wang, F. Scheller

Biosensors for Choline, Choline Esters and Inhibitors of Choline Esterase 35

U. Wollenberger, U. Löffler, R. Gruß, W. Göpel, F. Scheller

Glucose Oxidase/Lipid Mixed LB-Films on a Pt Electrode: Application as Sensor Model 43

Th. Hanke, U. Wollenberger, B. Ebert, F. Scheller, S. Yu. Zaitsev

Organic Phase Biosensors 47

F. Schubert, S. Saini, A. P. F. Turner, F. Scheller

A Microbial Sensor for BOD 51

K. Riedel, B. Neumann, N. Klimes, B. Fahrenbruch, F. Scheller, H. Merten, E. Klinger, H.-J. Stein

Development of Microbial Sensors for Determination of Xenobiotics 55

B. Beyersdorf-Radeck, K. Riedel, B. Neumann, F. Scheller, R. D. Schmid

Integrated Enzyme Thin Film Metal Electrodes 61

R. Hintsche, B. Möller, I. Dransfeld, F. Scheller

How to Improve Enzyme Electrodes? 65

*Th. Schulmeister***b. Münster 69**

First Studies on the Development of a Biosensor for Triglycerides 71

B. Kallabis, K. Cammann, F. Spener

Formaldehyde Analysis by an Enzymatic FIA-System 75

*B. Winter, K. Cammann*Urea Biosensor Based on an Ammonia Gas Probe Using an NH_4^+ -Sensitive PVC-ISE 79*S. B. Butt, J. Krause, K. Cammann*

Potentiometric Immunoassay (PIA) - Mixed Potential Shift by an Antigen/Antibody Reaction 83

H. Meyer, K. Cammann

Development of a Biosensor for the Determination of Catecholamines in Urine 87

D. Meiwes, B. Roß, K. Cammann, M. Knoll, H. Witzel

Fiberoptic Biosensor for Lactate with Redox Dyes as Coenzyme 91

*A. Rohen, J. Krause, K. Cammann***c. Universities of Munich, Fraunhofer Institute 95**

Biosensors with Oxidoreductases and Integrated Coenzyme or Mediator Recycling 97

H.-L. Schmidt, W. Schuhmann, R. Medina, B. Uhe, M. Hämmerle, F. Guberlet

New Modified Electrodes for Electrocatalytic Oxidation of NADH Based on Conducting Polymers 107

J. C. Cooper, W. Schuhmann, H.-L. Schmidt

Polypyrrole Glucose Oxidase Electrodes: Suppression of Cooxidizable Substances 111

M. Hämmerle, W. Schuhmann, H.-L. Schmidt

Assessment of Catalyst-Modified Conducting Polymers for the Development of Amperometric Dehydrogenase Electrodes 115

W. Schuhmann

Flow Injection Analysis Based on Biosensors to Improve the Automation and Control of Food Production Processes 119

U. Schrader, V. Denk, H.-L. Schmidt, L. Narziß

Development and Evaluation of Biosensors for HIV-Serology 123

F. Aberl, H. Wolf, P. Woias, S. Koch, C. Kößlinger, S. Drost

Biosensors for the Detection of Heavy Metal Ions and Fecal Contamination 129

F. Binder, J. Ritter, R. Hilpert, S. Drost, C. Kößlinger, S. Koch, E. Müller

Biosensors Based on Capacitance Measurements and 2D-Microelectrophoresis on Lipid Membranes 133

E. Sackmann, M. Stelzle, G. Weissmüller

Bacteriorhodopsin Variants for Optical Information Processing 145

N. Hampp, R. Thoma, A. Popp, D. Zeisel, T. Renner, C. Bräuchle, D. Oesterhelt

Membrane Materials for Amperometric and Potentiometric Thickfilm Biosensors 153

N. Hampp, C. Eppelsheim, J. Scholze, R. Aubeck, C. Bräuchle

d. University of Tübingen 161

Biosensors Based on Receptors 163 - 186

Biosensor Based on a Sugar Transport Protein 164

B. Klee, E. John, H. Kiefer, J.-D. Stierhof, F. Jähnig

Immunosensors on the Basis of Lipopeptides 170

W. Beck, J. Metzger, K.-H. Wiesmüller, G. Jung

Optical Transducer Principles 174

A. Brecht, G. Gauglitz, U. Heilig, M. Reichert, Ch. Striebel

Electrical Transducer Principles 178

R. Kindervater, W. Göpel, D. Ottenbacher, M. Knichel

e. GBF Braunschweig 187

New Developments in the Field of Biosensors Applied to the Determination of Pesticides in Water 189

U. Bilitewski, B. Beyersdorf-Radeck, F. F. Bier, R. Kindervater, P. Krämer, P. Rüger, R. D. Schmid

- Thick Film Biosensors for Ethanol and Urea 199
U. Bilitewski, P. Rüger, W. Drewes, F. Bechthold, R. D. Schmid
- Direct Observation of Anti-Antrazine Antibody Binding Using Grating Couplers 205
F. F. Bier, W. Stöcklein, R. D. Schmid
- Biosensors for Fermentation Control 209
J. Bradley, T. Ding, W. Vahjen, S. White, U. Bilitewski, E. D'Costa, W. Stamm, J. Higgins, R. D. Schmid
- Rapid Determination of Biomass Activity by Flow Injection Analysis 217
T. Ding, U. Bilitewski, R. D. Schmid
- Improvement of an *E. coli* Fermentation by On-Line Monitoring of Glucose and Total Amino Acid Using a Fiber Optic FIA-System 221
B. A. A. Dremel, Y. Huang, R. D. Schmid
- Simultaneous Flow Injection Analysis of L-Lactate and L-Malate in Wine Based on the Use of Enzymes 225
H. Ukeda, S. Yoshioka, K. Matsumoto
- Enzymes and Antibodies for Biosensors - Studies at the GBF 229
R. D. Schmid
- Detection of Ligands via Bacterial Luciferase 235
R. Jockers, R. D. Schmid
- Bacterial Luciferase of *Vibrio harveyi* MAV: Purification, Characterization and Application 239
D. Lang, H. Erdmann, R. D. Schmid
- Preparation of a NADH Oxidase for Biosensor Applications 245
S. Kondruweit, H. Erdmann, H.-J. Park, C. O. A. Reiser, M. Sprinzl, R. D. Schmid
- H₂O₂-Forming NADH Oxidase from *Thermus thermophilus* HB8 for Cofactor Recycling in Biosensor Applications: Molecular Cloning of the Gene and its Expression in *Escherichia coli* 251
H.-J. Park, R. Kreutzer, C. O. A. Reiser, R. D. Schmid, M. Sprinzl
- Application of NADH Oxidase in Fiber-Optic Biosensors 255
B. A. A. Dremel, S. Kondruweit, H. Erdmann, R. D. Schmid
- Investigations on Glucose Biosensors Using Langmuir-Blodgett Techniques for the Immobilization of Derivatized Glucose Oxidase 259
B. A. A. Dremel, H. Kalisz, B. P. H. Schaffar, S. Draxler, M. E. Lippitsch, R. D. Schmid, O. S. Wolfbeis

f. Further Places (Hamburg, Leipzig, Halle, Hannover, Berlin, Dortmund, Erlangen, Jülich, Karlsruhe, Lübeck, Karlsburg, Ulm) 263

Signal Generation and Evaluation in Fluorescence-Based On-Line Fiber Optic Biosensors 265
V. Kasche, E. Renken, G. Schietke, R. Ulrich, R. Bücke, H. Gnewuch, K. Jansen

The Use of Redox Mediators for Amperometric Biosensors 275
B. Gründig, B. Strehlitz, C. Krabisch, H. Thielemann, H. Kotte, M. Gomoll, H. Kopinke, R. Pitzler

Properties of Protein Layers at Electrodes 287
H. Emons, Th. Schmidt

A Coulometric Sensor-Actuator-System for Enzymatic Measurements with Long Term Stability 291
U. Spohn, B. Fuhrmann, K.-H. Mohr

Enzyme Electrode for the Determination of L-Lysine. Preliminary Report 303
E. Weber, K. Siegler, B. Weber, K. Tonder, K. Unverhau, H. Weide, H. Aurich

In vitro and in vivo Determination of Dopamine and other Neurotransmitters Using Carbon Fiber and Glassy Carbon Electrodes by Differential Pulse Voltammetry 307
Th. Baumeyer, P. Heiduschka, J. Dittrich

Monitoring and Control of Biotechnical Production Processes by BIO-FET-FIA-Sensors 311
U. Brand, L. Brandes, V. Koch, T. Kullik, B. Reinhardt, F. Rüther, T. Scheper, K. Schügerl, S. Wang, X. Wu, R. Ferretti, S. Prasad, D. Wilhelm

Development and Applications of a Four-Channel Enzyme Thermistor System for Bioprocess Control 321
H.-G. Hundeck, U. Hübner, A. Lübbert, T. Scheper, J. Schmidt, M. Weiß, F. Schubert

Development of Surface Acoustic Wave Sensors Incorporating Langmuir-Blodgett Films 331
B. Ebert, S.-M. Chang, E. Tamiya, I. Karube

Potential Relaxation as a Measurement Procedure for Biosensors 333
K. D. Klein

Easily Producing Amperometric and Voltammetric Glass Microsensors with Tip-Diameters between 0.3 and 3 μm 337
G. Holtermann, H. Acker

Microscopic Multichannel Spectrometer for Light Absorption Measurement of Pigments Inside of Mammalian Cells 341
H. Acker, A. Görlach, G. Holtermann

Design, Fabrication and Measurement of a FET Transducer for Chemical Sensors 345

T. Falter, T. Mikolajick, H. Ryszel

Development of an Enzymatic Multichannel Flow Injection Analysis System for Monitoring Mammalian Cell Fermentations 349

J. J. van der Pol, B. Joksche, R. Eberhardt, M. Biselli, Ch. Wandrey, J. Tramper

Ionsensitive Field-Effect-Structures with Langmuir-Blodgett Membranes 353

R. Erbach, A. Vogel, B. Hoffmann

Preliminary Investigations on Immunosensors for the Gas Phase 359

S. Scholtissek, A. Manns, K.-P. Rindt

Enzyme Electrodes for in vivo Application - Kinetic Properties, Sterilization and Geometry 361

P. Abel, T. v. Woedtke, U. Fischer, W.-D. Juelich

The Continuous Measurement of Metabolic Parameters with Electrochemical Sensors 369

H. Zier, F. S. Keck, C. Meyerhoff, W. Kerner, F. Bischof, E. F. Pfeiffer

Characteristics and Application of a Continuous Glucose Registration Device Using the Microdialysis Technique 375

F. S. Keck, W. Kerner, C. Meyerhoff, H. Zier, E. F. Pfeiffer

Noninvasive Recording of Neuronal Activity by Field-Effect Transistors and Fluorescent Dyes 379

P. Fromherz

Biochemical Characterization of a Highly Specific Trimethylamine Dehydrogenase Suited for the Application in Biosensors 381

W. Hummel, U. Wendel, S. Sting

II. International Workshop on Biosensors 385

Importance of Heterogeneous Electron Transfer in Monoenzymatic and Bienzymatic Electrochemical Sensors 387

M. Comtat

Graphite Based Bienzyme Sensors 393

J. Kulys, U. Bilitewski, R. D. Schmid

Amperometric Detection of Lactate: A Comparison between Mediated and Platinized Carbon Electrodes 403

S. F. White, I. J. Higgins, E. D'Costa, J. Bradley, R. D. Schmid

Rapid Microbial Testing in 'Real' Samples 409

I. J. Higgins, G. F. Hall

Extrinsic Fiber Optic Biosensors with Light Emitting Enzyme Systems 419

P. R. Coulet, L. J. Blum, S. M. Gautier

Fiber Optic Biosensing Based on Receptor Recognition 425

O. S. Wolfbeis, H. He

Membrane Protein Receptors in Supported Lipid Bilayers as Biosensors 435

J. Ramsden, F. Hucho, H. Vogel

Dual Antibody Systems for the Construction of Biosensors 443

W. Schramm, S.-H. Paek, H.-H. Kuo, K. Hajizadeh

Continuous Flow Immunoassay: Use of a Novel Trifunctional Carrier Molecule for the Synthesis of Fluorophore-Labeled Antigens 453

R. Bredehorst, G. A. Wemhoff, A. W. Kusterbeck, P. T. Charles, F. S. Ligler, C.-W. Vogel

Batch Injection Analysis for High-Speed Biosensing 461

J. Wang, L.-H. Wu, L. Chen, Z. Taha

Real Time BIA. A New Biosensor Based Technology for the Direct Measurement of Biomolecular Interactions 467

U. Jönsson

Microbiosensors Prepared by Micromachining 477

I. Karube, U. Suda, H. Suzuki

Piezoelectric (PZ) Immunosensors and their Applications 491

A. A. Suleiman, G. G. Guilbault

Nickelocene as Electrochemical Mediator for Glucose Oxidase Immobilized on Pyrolytic Graphite Electrode 501

P. Atanasov, A. Kaisheva, S. Gamburzev, I. Iliev, S. Bobrin

Biosensor Systems Utilizing NADH as an Intermediate 505

L. Risinger, M. Skoog, X. Yang, G. Moges, G. Johansson

Flow Injection and In-Line Biosensors for Bioprocess Control: A Comparison 511

H. Luedi, M. B. Gam, S. D. Haemmerli, A. Manz, H. M. Widmer