

# Final Program:

**Nov. 03, 2000**

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**Thursday, October 19, 2000**

## Introduction and Welcome Address

### SESSION I: Chromatin Organization and Dynamics

*Chair: Crissman - Langowski (Los Alamos – Heidelberg)*

1. [4D-imaging of living cells](#)  
E.M.M. Manders, A.E. Visser, W. de Leeuw, A. Koppen, R. van Liere, G.J. Brakenhoff and R. van Driel (Amsterdam, Netherlands)
2. [Chromatin condensation during apoptosis correlates with the release of cytoskeletal tension on the cell nucleus](#)  
Michael J. Hendzel, Melody A. Lever, and John P.H. Thn'g (Alberta, Canada)
3. [Biochemical and cytological analysis of centromere replication during the cell cycle](#)  
Richard D. Shelby, Karine Monier, Samantha G. Zeitlin, Cynthia M. Barber, C. David Allis and Kevin F. Sullivan (California, USA)
4. [S-phase centromere pairing in stimulated human peripheral blood lymphocytes and repair activated cells](#)  
Shamci Monajembashi, Michael Hausmann, Alexander Rapp, Eberhard Schmitt, Heike Dittmar and Karl-Otto Greulich (Jena, Germany)
5. [Assembly of the nuclear envelope membrane analyzed in vivo by quantitative 4D image reconstruction](#)  
Daniel Gerlich (Heidelberg, Germany)
6. [Anomalous diffusion of fluorescent probes inside living cell nuclei investigated by spatially-resolved fluorescence correlation spectroscopy](#)  
Malte Wachsmuth, Waldemar Waldeck und Jörg Langowski (Heidelberg, Germany)

7. [The process of replication in the context of stably positioned chromatin](#)  
Daniele Zink (Munich, Germany)

## **Session II : Novel Cytotechnologies**

**Chair: Knoch - Rothe (Heidelberg – Regensburg)**

1. [Time-resolved fluorescence measurements by flow cytometry](#)  
John A. Steinkamp (Los Alamos, USA)
2. [Cell cycle-related changes in the fluorescence lifetime of ethidium bromide associated with alterations in chromatin structure in mammalian cells](#)  
Harry A. Crissman (Los Alamos, USA)
3. [Multiplexed flow cytometry: An emerging technology synergistic multi-analyte profiling using suspension array technology \(SAT\)](#)  
Francis Mandy (Ontario, Canada)
4. [Multiplex DNA- and RNA-analysis using fluorescent Microbeads as an alternative to DNA-arrays](#)  
Mario Probst, Thomas Langmann, Charalampos Aslanidis, Gregor Rothe and Gerd Schmitz (Regensburg, Germany)
5. [A rapid and sensitive method for the quantitation of reverse transcriptase-PCR products using flow cytometry](#)  
Pötter, Thomas, Göhde, Wolfgang, Wetzlich, Steffi, and Wedemeyer, Niels (Muenster, Germany)
6. [Absolute counting of low level leucocytes on leucocyte depleted blood products](#)  
B. Greve, B. Nave, U. Cassens, W. Sibrowski, W. Göhde (Muenster, Germany)
7. [Laser-scanning-cytometry: A new technique for quantitative analysis in molecular cytogenetics](#)  
T.E. Schmid, A. Baumgartner, T. Ruthsatz, M. Nuesse, and I.-D. Adler (Neuherberg, Germany)

## **SESSION III: Annual General Meeting of the DGfZ**

**Chair: Nuesse (Neuherberg)**

## SESSION IV: Postersession

*Chair: Hutter - Viergutz (Heidelberg - Rostock)*

1. [Cytophotometric study of cardiomyocyte ploidy level in birds with different growth rate and lifestyle](#)  
Anatskaya O.V. and Vinogradov A.E. (St. Petersburg Russia)
2. [Activity of glucose-6-phosphatase in the hepatic lobule zones of the cirrhotic rat liver](#)  
Natalia N. Bezborodkina, Margarita V. Kudryavtseva, Sergey V. Okovity, Boris N. Kudryavtsev, (St.Petersburg, Russia)
3. [Enrichment for late telophase cell populations using flow cytometry](#)  
Bogdan I. Gerashchenko, Mizuki Hino, Hiroshi Hosoya (Higashi-Hiroshima, Japan)
4. [Functional apoptotic responses of jurkat T-cells analysed by time-resolved flow cytometry](#)  
W. Grundler, P. Dirscherl, W. Beisker, A. Stampfl, K.Maier and M. Nüsse (Neuherberg, Germany)
5. [Flow cytometric examinations on the effect of new antibiotics of the leptomycin family on tumor cells](#)  
A. Burzlaff, C. Kasper und T. Scheper
6. [Zonal heterogeneity of the glycogen content in the liver lobule zones of patients with liver cirrhosis](#)  
Margarita V. Kudryavtseva, Natalia N. Bezborodkina, Boris N. Kudryavtsev (St. Petersburg, Russia)
7. [Differentiation of bacteria grown in mixed culture using lectin binding](#)  
Lösche, Andreas and Müller, Susann, (Leipzig, Germany)
8. **Does a correlation of AT-rate and genome size exist in higher plants?**  
M.Barow, A.Meister (Gatersleben, Germany)
9. [Rapid fixation with peroxyacetic acid and chlorine dioxide compared to the fixation with alcohol](#)  
Sabine Mirbach, Guido Eggers and Frank Nitzsche (Duisburg, Germany)
10. [Assessment of bacterial viability status by flow cytometry and single cell sorting](#)  
G.Nebe-von-Caron and P.Stephens, (Sharnbrook, Basingstoke, UK.)
11. [Durchflußzytometrische Bestimmung der Chinolonempfindlichkeit von Streptococcus Pneumoniae und Staphylococcus Aureus](#)  
S. Nuding, H. A. G. Müller und Ch. Bode (Göppingen, Hohenheim)

12. [\*\*Snom of breast cancer cell surfaces after structure conserving HMDS supported air drying\*\*](#)  
B. Perner, M. Hausmann, A. Rapp C. Dressler, L. Wollweber J. Beuthan, K.O. Greulich (Jena, Berlin, Germany)
13. [\*\*Cytophotometric assessment of protein contents and the number of genomes in hepatocytes of \*Cryptosporidium Parvum\* infected suckling rats\*\*](#)  
N.V. Sidorenko, O.V. Anatskaya, T.V. Beyer (St. Petersburg, Russia)
14. [\*\*Detection of aromatase protein in bovine lutein cells by flow cytometry\*\*](#)  
Torsten Viergutz, Berthold Loehrke, Marion Spitschak (Dummerstorf, Germany)
15. [\*\*Flow cytometric analysis of cell membrane-dependent chromatin condensation\*\*](#)  
Alexander E. Vinogradov (St.Petersburg, Russia)

**Friday, October 20. 2000**

## **SESSION V: Tumorbiology and Tumordiagnosics**

*Chair: Fruehauf – Hemmer (Heidelberg - Ulm)*

1. [\*\*Assessment of grade in follicular lymphoma: Correlation between light scatter properties and histologic appearance\*\*](#)  
Jeannine T. Holden (Atlanta, USA)
2. [\*\*Objective grading and prognostification of dysplasias of the uterine cervix using a combination of laser scanning cytometry and HPV-PCR: An one step method.\*\*](#)  
Bollmann, R. Schmitz, J.M. Speich N. Vogel, C.U Schmitt, C. Bollmann, M. (Bonn-Duisdorf, Germany)
3. **Evaluation of nuclear DNA content values on various human cytological smears and paraffineembedded tissue sections: Static cytophotometric studies**  
V. G. Enchev (Sofia, Bulgaria)
4. [\*\*The MAINTRAC-method combining magnetic bead enrichment and laser scanning cytometry \(LSC\) for quantitation of residual tumor cells in blood and bone marrow.\*\*](#)  
Katharina Pachmann (Bayreuth, Germany)
5. [\*\*The hydrolysis derivative of glucoraphanin but not the native glucosinolate induces differential effects on growth inhibition, cell-cycle arrest, and induction of apoptosis in human T-cell leukemia.\*\*](#)  
Michael Nüsse, Carmela Fimognari, Rossano Cesari, Renato Iori, Giorgio Cantelli Forti, Patrizia Hrelia, (Bologna, Neuherberg; Italy, Germany)

6. [Models of microevolution: Opposing mechanisms of tumour cell survival after genotoxic treatment](#)  
M.S.Cragg, A.Ivanov, T.Illidge, Je.Erenpreisa, (Southampton, Riga; Latvian, UK)
7. [Migration and cytokine expression of monocytes in fibroblast spheroids determined by flow cytometry](#)  
L.A. Kunz-Schughart, T. Silzle, M. Kreutz, R. Knuechel (Regensburg, Germany)
8. [Interferon-g- beeinflusst den Apoptose-Signalweg von TNF \$\alpha\$  nur teilweise über NF \$\kappa\$ B in der humanen Tumor Zell-Linie Me-180](#)  
Heinz Baisch (Hamburg-Eppendorf, Germany)
9. [T-gamma-lymphoproliferative disease - a case report](#)  
Kardum MM, Siftar Z\*, Kardum - Skelin I, Planinc - Peraica A, Sustercic D, Borovecki A, Nazor A\*, Jaksic B. (Zagreb, Kroatia)
10. [DNA-Image Zytometrie in der Subtypisierung der Grosszell- Lymphome](#)  
Borovecki A, Kardum-Skelin I, Sustercic D, Ostojic S, Vrhovac R, Radic-Kristo D, Jaksic B, (Zagreb, Kroatia)

## SESSION VI: Talk of the Klaus Goertler Prize Winner

*Chair: Member of the DGfZ Board*

1. **Praegung des Zytokinedächtnisses in Th-Lymphozyten**  
Anne Richter (Berlin, Germany)

## SESSION VII: Cellular Function and Disease (part 1)

*Chair: Boehm – Nebe-von-Caron (Bonn – Sharnbrook )*

1. [Expression von CD64 durch neutrophile Granulozyten bei inflammatorischen Prozessen des Gastrointestinaltraktes](#)  
W. Tillinger, R. Jilch, U. Satzinger, W. Oczenski, H. Brunner, W. Reinisch (Wien, Österreich)
2. [Ligand specific heteromeric CD14-clustering in inflammation](#)  
A. Götz, E. Orsó, G. Rothe, G. Schmitz (Regensburg, Germany)
3. [Differential chemokine expression by T cell subsets](#)  
Brigitte Dorner, Andreas Radbruch, Richard Kroczeck, and Alexander Scheffold (Berlin,

Germany)

4. [Flow-cytometric analysis of TGF- \$\beta\$  producing T cells](#)  
Maurus De La Rosa, Désirée Kunkel and Alexander Scheffold (Berlin, Germany)
5. [Cytometric approaches to the molecular analysis of cytokine memory](#)  
Hyun-Dong Chang, Max Löhning, Torsten Stamm, and Andreas Radbruch (Berlin, Germany)
6. [Lymphocyte subsets in lumbar cerebrospinal fluid \(CSF\) of aging humans](#)  
T.O. Kleine, P. Zöfel (Marburg, Germany)
7. [Detection of membrane glucocorticoid receptor expression on peripheral blood monocytes using high-sensitivity immunofluorescence](#)  
Burkhard Bartholome, Désirée Kunkel, Maren Bienert, Timea Berki, Alexander Scheffold, and Frank Buttgereit (Pécs, Berlin; Hungary, Germany)
8. [Monitoring the \*In Vivo\* differentiation of antigen-specific T cells following DNA vaccination](#)  
Till Muzzolini, Désirée Kunkel, Andreas Radbruch, and Alexander Scheffold (Berlin, Germany)

## SESSION VIII: Cellular Function and Disease (part 2)

*Chair: Ormerod - Valet ( London - Martinsried )*

1. [Cell cycle and growth response of CHO cells to low doses of X-rays](#)  
D. Bartkowiak, S. Hogner, W. Nothdurft, E.M. Rottinger (Ulm, Germany)
2. [Reaktionen inflammatorischer Blutzellen auf partikuläre Noxen](#)  
Meindl Th., Grundler W., Nuesse M., Maier K. und Niessner R. (Neuherberg, Germany)
3. [Magnetic fields \(MF\) influence calcium influx and inhibit the extent of apoptosis induced by chemical and physical agents in human glioblastoma cells](#)  
L. Teodori, L. Ghibelli, MG. Valente, D. Coletti, B. Perniconi, F. Tagliaferri, C. Cerella, P. Coluccia, F. Stipa and W. Göhde (Rome, Münster; Italy, Germany)
4. [Microscopic calcium management in cardiac myocytes and numeric oscillator simulations: Insights into pacemaker development](#)  
Götz Pilarczyk, Eberhard Schmitt, Karl Otto Greulich (Jena, Germany)
5. [Apoptosis and caspase activity in peripheral blood lymphocytes of patients with Lupus Erythematosus detected by flow cytometry](#)  
I. Böhm (Bonn, Germany)

6. [Viable but non-culturable cells in microbiology: a growing problem !?](#)  
G. Nebe-von-Caron, P. J. Stephens, J. R. Powell, and R. A. Badley (Sharnbrook, Basingstoke, UK.)
7. [The relation of polysomies to deletions of chromosome 9 and chromosome 17 in early lesions of the human bladder](#)  
E. Obermann, A. Hartmann, H. Kutz, A. Schneider, R. Knüchel (Regensburg, Germany)
8. [Analyse der Art der Fortpflanzung in höheren Pflanzen mittels durchflusszytometrischer Untersuchung reifer Samen](#)  
Armin Meister, Fritz Matzk und Ingo Schubert (Gatersleben, Germany)
9. **Dynabeads applications in cell separation and cell modification.**  
Berit Marie Eidal
10. **Use of nanoparticles for signal amplification and multiparametric analysis in flow cytometry**  
Wade E. Bolton

**Saturday, October 21. 2000**

## **SESSION IX: Industrial Talks**

*Chair: Hausmann - Beisker (Jena - Neuherberg)*

1. **Multiwell Autosampler : Probenabarbeitung aus Mikrotiterplatten am Durchflußzytometer**  
Heiden, (BD Biosciences)
2. **PE-Cy7- und APC-Cy7-Tandemkonjugate in der Flußzytometrie**  
Michael Steinbrecher (CALTAG LABORATORIES)
3. **Applications and new developments in laser scanning cytometry**  
Mark Rehse (Compucyte)
4. **A novel scanning image cytometer for automated interphase FISH analysis**  
Andreas Plesch, Thomas Loerch (MetaSystems GmbH)
5. **CyFlow – a new ultracompact flow cytometer**  
Volker Ost\*, Carsten Herrmann\*, and Wolfgang Göhde jun. \*\* (\*Partec GmbH Münster, \*\*Cytects GmbH Görlitz)

6. **Die neue Generation der Laser Rastermikroskopie**  
Michael Verst (Polytec GmbH)
7. **The continuing evolution of high performance cell sorting**  
Marlene Bentino (Cytomation GmbH)

## **SESSION X: LSM, LSC, and Applications (part 1)**

*Chair: Knuechel - Schwarzmann (Regensburg - Stuttgart)*

1. [Analysis of single molecules](#)  
Bürk Schäfer, Battulga Nasanshargal, Karl Otto Greulich (Jena, Germany)
2. [Application of laser scanning cytometry \(LSC\) in toxicological testing](#)  
Danielle Roman (Basel, Switzerland)
3. **Measurement of markers for breast cancer using laser scanning cytometry (LSC)**  
L. Zabaglo, M. G. Ormerod and M. Dowsett (London, United Kingdom)
4. [Laser scanning cytometry \(LSC\): A new diagnostic tool in routine cytology](#)  
J.M. Schmitz, C. U. Vogel, M. Bollmann, R. Bollmann (Bonn-Duisdorf, Germany)
5. [Analysis of peripheral blood leukocytes by laser scanning cytometry \(LSC\) with sequential staining of CD-antigens](#)  
Laffers, Wiebke; Gerstner, Andreas; Schneider, Peter; Bootz, Friedrich; Tárnok, Attila (Leipzig, Germany)

**Saturday, October 21. 2000**

## **SESSION X: LSM, LSC, and Applications (part 2)**

*Chair: Rehse - Tarnok*

6. [Analysis of fine needle aspiration biopsies from head and neck cancer by laser scanning cytometry \(LSC\)](#)  
Machlitt, Julia; Gerstner, Andreas; Bootz, Friedrich; Tárnok, Attila (Leipzig, Germany)



7. [Multiparameter analysis of progeny of individual cells by laser scanning cytometry \(LSC\)](#)  
Elzbieta Bedner and Zbigniew Darzynkiewicz (Hawthorne, USA)
8. [Digital Confocal Imaging as an Alternative to Traditional Laser Scanning Techniques for Analysis of Intracellular Topography](#)  
R. C. Krieg, C. Seitz, J. Rauch, D. N. Männel, H. Messmann, R. Knüchel (Regensburg, Germany)
9. [Measurement of leukocyte migration during paediatric cardiac surgery by flow and laser scanning cytometry \(LSC\)](#)  
Tárnok A, Schmidt J, Osmancik P, Pipek M, Hamsch J, Schneider P (Leipzig, Germany)
10. [Patchwork-Images as a new technique](#)  
J.M. Schmitz, O. Bollmann, R. Bollmann (Bonn-Duisdorf, Germany)

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