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Nota di contenuto	Alternatives to Animal Testing; Preface; In memoriam; Foreword; List of contributors; Contents; 1 Looking Back 33 Years to Russell and Burch: The Development of the Concept of the Three Rs (Alternatives); 2 The OECD and International Regulatory Acceptance of the Three Rs; 3 The European Centre for the Validation of Alternative Methods (ECVAM); 4 A Timetable for Replacing, Reducing and Refining Animal Use with the Help of in Vitro Tests: The Limulus Amebocyte Lysate Test (LAL) as an Example 5 The Fund for the Replacement of Animals in Medical Experiments

(FRAME): 23 Years of Campaigning for the Three Rs<sup>6</sup> Animal Use and Alternatives: Developments in the Netherlands; 7 The RIVM Center for Alternatives to Animal Testing and the Concept of the Three Rs in the Quality Control of Vaccines; 8 ZEBET: Three Years of the National German Center for Documentation and Evaluation of Alternatives to Animal Experiments at the Federal Health Office (BGA) in Berlin; 9 Reviewed Literature Databank for Alternatives to Animal Experiments - "Gelbe Liste"

10 The SIAT Research, Teaching and Consulting Program in the Area of in Vitro Toxicology. Experimental Research, Screening and Validation<sup>11</sup> Computer-Aided Drug Design and the Three Rs; 12 Computer-Aided Programs in Biomedical Education; 13 Alternatives to Experiments with Animals in Medical Education: A TEMPUS Joint European Project; 14 Replacement of Laboratory Animals in the Management of Blood-Sucking Arthropods; 15 Maintenance of Filarial Cycles in the Laboratory: Approaches to Replacing the Vertebrate Host<sup>16</sup> Improved Drug Metabolizing Capacity of Hepatocytes Co-Cultured with Epithelial Cells and Maintained in a Perfusion System<sup>17</sup> Characterization and Use of Long-Term Liver Cultures to Evaluate the Toxicity of Cyclophosphamide or Benzene to Bone Marrow Cultures; 18 European Interlaboratory Evaluation of an in Vitro Ocular Irritation Model (Skin2™ Model ZK1100) Using 18 Chemicals and Formulated Products; 19 Cellular Assays for Testing Peritoneal Dialysis Bags; 20 The Position of the Authorities; Subject index

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## Sommario/riassunto

Opinion leaders in science and politics examine findings and legislation in alternatives to animal testing! Refine, reduce, replace - These are the three demands that scientists have placed upon themselves in their search for alternatives to animal testing. Indeed much interdisciplinary research is being carried on today, and new fields have emerged, such as in-vitro toxicology. The three R's call for new scientific insights. Moreover, validation and acceptance strategies have to be adapted, a process of much ongoing interest and vital concern to the pharmaceutical and cosmetic

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