



The Sixth  
Princess Chulabhorn International Science Congress

**THE INTERFACE OF CHEMISTRY AND BIOLOGY IN THE "OMICS" ERA:  
ENVIRONMENT & HEALTH AND DRUG DISCOVERY**

**PROGRAM AND ABSTRACTS  
FOR  
INVITED SESSIONS**

*November 25-29, 2007*

Bangkok, Thailand

*organized by*

**Chulabhorn Research Institute**

**VOLUME I**

# CONTENTS

	<i>Page</i>
<b>Committee.....</b>	<b>1</b>
<b>Invited Speakers.....</b>	<b>2</b>
<b>Chairpersons.....</b>	<b>3</b>
<b>Satellite Workshop.....</b>	<b>4</b>
<b>The Congress Center Map.....</b>	<b>5</b>
<b>General Information.....</b>	<b>6</b>
<b>Social Program.....</b>	<b>8</b>
<b>Scientific Program Information.....</b>	<b>9</b>
<b>Princess Chulabhorn Gold Medal Award.....</b>	<b>11</b>
<b>Scientific Program:</b>	
<i>Program Overview</i>	21
<i>Program Summary</i>	23
<i>Program</i>	33
<b>Concurrent /Satellite Workshops .....</b>	<b>51</b>
<b><i>Abstracts:</i></b>	
<i>Keynote Lectures</i>	59
<i>Plenary Lectures</i>	65
<i>Closing Lecture</i>	117
<i>Symposia</i>	123
<b>List of Participants.....</b>	<b>397</b>
<b>Acknowledgements.....</b>	<b>463</b>
<b>Author Index.....</b>	<b>471</b>



The Sixth  
Princess Chulabhorn International Science Congress

**THE INTERFACE OF CHEMISTRY AND BIOLOGY IN THE "OMICS" ERA:  
ENVIRONMENT & HEALTH AND DRUG DISCOVERY**

**ABSTRACTS  
FOR POSTER SESSION**

*November 25-29, 2007*  
Bangkok, Thailand

*organized by*

**Chulabhorn Research Institute**

**VOLUME II**

# CONTENTS

Page

<b>LIST OF POSTER PRESENTATIONS.....</b>	<b>3</b>
<b>ABSTRACTS:</b>	
A. Functional Genomics/Systems Biology ( <i>PA-01 to PA-13</i> ).....	31
B. Toxicogenomics/Pharmacogenomics ( <i>PB-01 to PB-02</i> ).....	41
C. Metabonomics/Metabolomics ( <i>PC-01 to PC-05</i> ).....	45
D. Transcriptomics/Proteomics ( <i>PD-01 to PD-19</i> ).....	51
E. <i>In Vitro</i> Models of Toxicity ( <i>PE-01 to PE-02</i> ).....	63
F. Transgenic Animals/Disease Model ( <i>PF-01 to PF-02</i> ).....	67
G. Atmospheric Pollution ( <i>PG-01 to PG-04</i> ).....	71
H. Toxicity of Nanomaterials ( <i>PH-01</i> ).....	75
I. Chemical Pollutants/Complex Mixtures( <i>PI-01 to PI-19</i> ).....	79
J. Biomarkers/Biosensors ( <i>PJ-01 to PJ-19</i> ).....	91
K. Risk Assessment ( <i>PK-01 to PK-10</i> ).....	103
L. Exposure Assessment ( <i>PL-01 to PL-13</i> ).....	111
M. Natural Products ( <i>PM-01 to PM-60</i> ).....	121
N. Nano/Biotechnology ( <i>PN-01 to PN-22</i> ).....	153
O. Gene-Environment Interactions ( <i>PO-01 to PO-04</i> ).....	167
P. Genetic Polymorphisms and Disease Susceptibility ( <i>PP-01 to PP-17</i> ).....	171
Q. Biological Responses to Chemical Agents ( <i>PQ-01 to PQ-33</i> ).....	183
R. Chemoprevention of Diseases and Chemopreventive Agents.....	203
( <i>PR-01 to PR-18</i> )	
S. Organic Synthesis ( <i>PS-01 to PS-30</i> ).....	215
T. Biological Screenings ( <i>PT-01 to PT-27</i> ).....	233
U. Others ( <i>PU-01 to PU-19</i> ).....	249
<b>AUTHOR INDEX.....</b>	<b>261</b>