Welcome Note

Dear Conference Delegates,

It is a great pleasure to welcome you to the 1st Biomaterials-Africa conference to be held at the CSIR South Africa, an international conference showcasing the latest technological innovations and research developments in the biomaterials field in Africa as well as to present the latest global trends.

Biomaterials-Africa has drawn participants from at least twenty one countries, including Australia, Austria, Czech Republic, Denmark, Egypt, Ethiopia, Germany, Greece, Iran, India, Japan, Kenya, Kuwait, Mauritius, Nigeria, Poland, South Africa, Tanzania, Thailand, Uganda and the United Kingdom.

The conference will comprise of three plenary lectures from world renowned scientists, seven keynote addresses, eighteen oral and at least twenty five poster presentations. Scientific papers are presented in six theme areas, Biomaterials, Regenerative Tissue Engineering, Nano-Enabled Materials, Stem Cells, Medical Devices as well as Drug Delivery.

We would like to encourage you to take advantage of the conference’s high technical standard and to use the opportunity to exchange knowledge and ideas.

On behalf of the organising committee, we express gratitude to the sponsors, the support organisations, the scientific review panel and the Biomaterials Association of South Africa (BioMatASA) for their commitment and hard work in contributing towards the success of this conference. We also acknowledge TERMIS (www.termis.org) and the Biomaterials Network (www.biomat.net) for endorsing the conference.

We sincerely hope that you enjoy your stay in the beautiful and hospitable city of Pretoria, commonly known as the “Jacaranda City”.

Yours faithfully,

Prof Ugo Ripamonti
Conference Scientific Chair
Professor and Director: Bone Research Laboratory
MRC/University of the Witwatersrand
South Africa

Prof Rui Krause
BioMatASA President 2009
Associate Professor
Department of Chemical Technology
University of Johannesburg
South Africa

Ms Avashnee Chetty
Conference Organisation Chair
Research Group Leader: Biomaterials Polymers and Composites, CSIR
South Africa
General Information

ECM Journal: www.ecmjournal.org
The abstracts of the Biomaterials-Africa 2009 will be published online in a supplement of European Cells and Materials (ECM) journal. The ECM journal has in the region of 5000 registered users.

ECM provides an international and interdisciplinary forum for publication and discussion for researchers in the following fields: Assessment of materials for biomedical use & interaction with tissues/cells/bacteria; Tissue engineering and regenerative medicine; Structure, function, biology of bone, teeth, cartilage, intervertebral disks & other related connective tissues; Stem and Progenitor Cells.

True Open Access disseminating scientific knowledge world-wide without barriers. It is also the official journal of Swiss Society for Biomaterials and the Tissue & Cell Engineering Society. EUR CELL MATER is published by the AO Foundation, Switzerland.

Gala Dinner: Moyo, 1 Prince of Wales Drive, Zoo Lake Park, Johannesburg. Tel: 011 646 0058

Amongst green grass, tall pine trees and a tranquil lake, moyo: soul or spirit in Swahili is the unique destination for our Conference Gala Dinner. It is a sophisticated African restaurant experience, inspired by the traditions and values of our ancestors.

Moyo, Zoo Lake, captures the spirit of Africa with its magical landscape, face painters & performing artists. The convergence of pan-African talent & artistry all contribute towards the relaxing vibe of the evening.

We will be welcomed by “Nyenge and Friends”, she sings & plays the Mbira/thumb piano, an African instrument, playing a fusion of popular cover songs and traditional African folk music as well as her own compositions, which are very soulful & sung in English & Shona. Nyenge is accompanied by guitar, keyboard, drums & bass guitar, a gifted performer whose music is an eclectic pan-African mix.

Bus to depart from CSIR ICC:
A bus service will be provided for delegates. The bus will leave the CSIR ICC at 17:30. The bus will return from Moyo to the CSIR ICC at 22:00.

Directions to Moyo, Zoo Lake

From Pretoria:
» Take the N1 South (direction Johannesburg).
» At the Buccleugh interchange, continue straight, via the M1 to Johannesburg.
» Continue past the following off-ramps: Woodmead, Marlboro, Grayston, Corlett and Athol-Oaklands.
» Take the next off-ramp, namely Glenhove.
» Where the off-ramp meets Glenhove Dr, turn right onto the bridge, passing over the highway and continue with Glenhove Dr.
» Glenhove Dr crosses Oxford Rd (first traffic light after the bridge) at which point Glenhove Dr changes into Bolton.
» Continue with Bolton until it crosses Jan Smuts (third traffic light after the Oxford crossing).
» Turn left into Jan Smuts. Continue with Jan Smuts until you see the Zoo Lake and Moyo signs.
» Turn right into Westwold until you get Prince of Wales (2nd street on your left), turn left into Prince of Wales and follow the road to Moyo Zoo Lake.

» Note: If you miss the Jan Smuts crossing, you can take either Torquay or Glamorgan (1st and 2nd roads after Jan Smuts - end with a T-junction in Westwold).

» If you miss the Jan Smuts/Westwold crossing, you can continue with Jan Smuts to Northwold, the next Westwold junction or Playfair or Lower Park and take the scenic route around Zoo Park.
DAY 1  Monday 21 September 2009

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<tr>
<th>Time</th>
<th>PROGRAMME</th>
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<tr>
<td>07:00 – 08:30</td>
<td>Late registration / Morning tea/coffee</td>
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</table>
| 08:30 – 09:25 | **Biomaterials**  
Chairperson: Dr Sean Moolman  
**Plenary Speaker - Prof Shuguang Zhang**  
Designer Self-assembling Peptide Biological Materials  
S Zhang                                                  |
| 09:25 – 09:55 | **Keynote address – Dr Hala Zreiqat**  
Ceramics modification for use in skeletal tissue regeneration  
H Zreiqat                                                  |
| 09:55 – 10:15 | **Dr Claudia Eder**  
Rapid assessment of biomaterials: The HET-CAN assay as screening tool for biomedical tissue engineering  
C Eder, E Falkner, A Slawik, M Mickel, A Tuschel, M Ogon |
| 10:15 – 10:35 | **Ms Malgorzata Gonsior**  
Thrombogenicity of Ti(N,C,O) diffusive coating layers developed on Titanium Alloy as the blood contact surface  
M Gonsior, T Borowski, E Czarnowska, M Sanak, R Kustosz, M Ossowski, T Wierzchon |
| 10:35 – 11:00 | Conference Group Photograph – please gather on the front steps of the CSIR ICC  
Tea/coffee break                                                  |
| 11:00 – 11:20 | **Drug Delivery**  
Chairperson: Ms Avashnee Chetty  
**Ms Njaboliso Dlamini**  
Synthesis and characterization of bisphosphonate conjugated carbon nanomaterials as potential treatment of secondary bone cancer  
NL Dlamini, XY Mbianda, Z Szucs, J Zeervaart |
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<tr>
<th>Time</th>
<th>Session/Activity</th>
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</table>
| 11:20 – 11:40 | Dr Andre Germishuizen  
Establishing a platform for spray drying inhalable vaccines in South Africa  
WA Germishuizen, L Venter, A Khosa, F Mudau, M Kabadi, A Schiermeier, DA Edwards, PB Fourie |
| 11:40 – 12:00 | Prof Dhanjay Jhurry  
Novel self-assembled block copolymers for drug delivery  
D Jhurry, A Bhaw-Luximon, V Lochee, B Ancharaz, A Veeren, R Jeetah |
| 12:00 – 12:40 | Poster session |
| 12:40 – 13:40 | Lunch |
| 13:40 – 14:35 | REGENERATIVE TISSUE ENGINEERING & NANO-ENABLED MATERIALS  
Chairperson: Dr Hala Zreiqat  
Plenary Speaker – Prof Tatsuya Shimizu  
Cell sheet engineering for myocardial tissue repair  
T Shimizu |
| 14:35 – 15:05 | Keynote address – Prof Ugo Ripamonti  
Self-inducing geometric cues and bone: Formation by autoinduction  
U Ripamonti |
| 15:05 – 15:25 | Ms Valencia Jacobs  
Electrospun chitosan nanofibre membranes for antimicrobial application: Role of  
electrospinning processing parameters  
V Jacobs, A Patanaik, RD Anandjiwala |
| 15:25 – 15:45 | Tea/coffee break |
| 15:45 – 16:05 | REGENERATIVE TISSUE ENGINEERING & NANO-ENABLED MATERIALS  
Chairperson: Prof Rui Krause  
Prof Mohammad Ramezani  
Peptide modified polyethyleneimine as vector for gene delivery  
M Ramezani, H Parhiz, A Hatefi |
| 16:05 – 16:25 | Ms Silvie Rimpelova  
Adhesion and growth of fibroblasts on artificial materials for tissue engineering  
S Rimpelova, N Kasalkova, V Svorcik, T Ruml |
| 16:25 – 16:45 | Gala Dinner – Moyo, Zoo Lake. The bus will depart from the CSIR ICC.  
Dress: Smart Casual  
Cash Bar Available |
| 17:30 | 18:30 – 22:00 | Best Poster Presentation |
DAY 2  Tuesday 22 September 2009

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<td>Morning tea/coffee</td>
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<tr>
<td>08:30 – 09:25</td>
<td><strong>BIOMATERIALS</strong></td>
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<td></td>
<td>Chairperson: Dr Deon Bezuidenhout</td>
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<tr>
<td>08:30 – 09:25</td>
<td><strong>Plenary Speaker – Prof Ugo Ripamonti</strong></td>
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<tr>
<td></td>
<td>Smart biomimetic matrices induce bone formation without the exogenous applications of soluble osteogenic molecular signals</td>
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<td></td>
<td>U Ripamonti, B van den Heever, LF Renton, PW Richter, L Kotzé</td>
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<tr>
<td>09:25 – 09:55</td>
<td><strong>Keynote address – Mrs Naseem Theilgaard</strong></td>
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<tr>
<td></td>
<td>Functional Orthopedic Devices to Tissue Engineering and Regeneration.</td>
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<tr>
<td></td>
<td>N Theilgaard</td>
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<td>09:55 – 10:15</td>
<td><strong>Dr David Reid</strong></td>
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<td></td>
<td>Kidney stone composition by solid state NMR (SSNMR)</td>
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<td>DG Reid, MJ Duer, G Jackson</td>
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<tr>
<td>10:15 – 10:35</td>
<td><strong>Dr Christiane Wetzel</strong></td>
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<tr>
<td></td>
<td>Improvement of cell-adhesion in the medical-surface boundary layer</td>
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<td>C Wetzel, N Ozkucur, J Schönfelder, TK Monsees, RHW Funk</td>
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<tr>
<td>10:35 – 11:00</td>
<td>Tea/coffee break</td>
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<tr>
<td>11:00 – 11:30</td>
<td><strong>BIOMATERIALS</strong></td>
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<td>Chairperson: Dr John Ramshaw</td>
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<tr>
<td>11:00 – 11:30</td>
<td><strong>Keynote address – Prof Mona Marei</strong></td>
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<tr>
<td></td>
<td>Bone engineering around laser grooved / RGD -Coated Titanium Surfaces</td>
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<tr>
<td>11:30 – 12:00</td>
<td><strong>Keynote address – Prof William Murphy</strong></td>
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<td></td>
<td>Title to be announced</td>
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<tr>
<td>12:00 – 12:20</td>
<td><strong>Prof M Jurczyk</strong></td>
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<tr>
<td></td>
<td>Hybrid Ti-ceramic bionanomaterials for dental engineering</td>
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<td></td>
<td>M Jurczyk, K Jurczyk, K Niespodziana, A Miklaszewski</td>
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<tr>
<td>12:20 – 12:40</td>
<td><strong>Prof Jaroslaw Jakubowicz</strong></td>
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<td></td>
<td>Deposition and properties of Hydroxyapatite on flat and porous Ti</td>
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<td>J Jakubowicz</td>
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## DAY 2  Tuesday 22 September 2009

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>12:40 – 13:35</td>
<td>Lunch/Posters</td>
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</tbody>
</table>
| 13:35 – 14:05 | **BIOMATERIALS**  
   Chairperson: Prof Mona Marei  
   - **Keynote address – Dr John Ramshaw**  
     Photochemically crosslinked proteins as new medical materials  
     CM Elvin, AG Brownlee, SJ Danon, GA Edwards, NE Liyou, JAM Ramshaw, L Sando,  
     T Vuocolo, JA Werkmeister  
| 14:05 – 14:25 | **Dr Selvan Govendar**  
   A surfactant based approach to multi-functional, biocompatible polymer development  
   S Govender, P Swart  
| 14:25 – 14:45 | **Dr John Mmari Onyari**  
   Properties of Biopolymers containing Polyvinyl alcohol, Lactic acid and Poly (ethylene glycol)  
   J Onyari  
| 14:45 – 15:00 | Tea/coffee break                                                      |
| 15:00 – 15:20 | **STEM CELLS AND MEDICAL DEVICES**  
   Chairperson: Prof Ugo Ripamonti  
   - **Prof Heidi Abrahamse**  
     Low intensity laser irradiation stimulates adipose derived stem cell viability and proliferation: Implications for autologous grafts  
     H Abrahamse  
| 15:20 – 15:40 | **Dr Deon Bezuidenhout**  
   Correlation of crosslink density with calcification of diamine-extended glutaraldehyde-fixed bioprosthetic heart-valve materials  
   D Bezuidenhout, A Oosthuysen, P Human, C Weissenstein, P Zilla  
| 15:40 – 16:00 | **Dr Suretha Potgieter**  
   Microfluidic devices for biological applications  
   S Potgieter, K Land, L Kotzé, R Sparrow  
| 16:00 – 16:30 | Closing ceremony – Prof Rui Krause                                     |
Poster Presentations

Posters will be on display in the conference foyer, from 20 - 22 September. The poster session will be held on Monday 21 September from 12:00 – 12:40. Presenting authors are kindly requested to be present at their poster to answer questions during this time. The best poster will be announced at the gala diner on Monday, 21 September.

<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Abstract Number</th>
<th>Title and Authors</th>
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<td>1</td>
<td>5</td>
<td><strong>Three Dimensional Finite Element Modeling of Human Skull in response to external loads</strong>&lt;br&gt;YF AL-Obaid</td>
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<tr>
<td>2</td>
<td>11</td>
<td><strong>Glycosaminoglycans and lipids in vascular calcification: new insights into mineralogenesis from NMR spectroscopy</strong>&lt;br&gt;MJ Duer, MS Ironside, DG Reid, M Schoppet, CM Shanahan</td>
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<tr>
<td>3</td>
<td>13</td>
<td><strong>Biocompatible polymers for metal chelation and protein binding</strong>&lt;br&gt;S Govender, WJ Przybylowicz, P Swart</td>
</tr>
<tr>
<td>4</td>
<td>14</td>
<td><strong>Liposomes as a drug delivery system in photodynamic therapy for colon cancer treatment</strong>&lt;br&gt;K Maduray, AE Karsten</td>
</tr>
<tr>
<td>5</td>
<td>15</td>
<td><strong>Biocompatibility of Dendrispheres</strong>&lt;br&gt;S Garny, I Gerber, J Jordaan</td>
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<td>6</td>
<td>18</td>
<td><strong>Calcium phosphate mineralization in phosphatic brachiopods, and vertebrates</strong>&lt;br&gt;DG Reid, MT Neary, MJ Mason, T Friščić, MJ Duer, M Cusack</td>
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<td>7</td>
<td>21</td>
<td><strong>Synthesis of Bio-based Polyester from Sorghum derived 1, 3 – Propanediol.</strong>&lt;br&gt;CM Obele, OO Ogbobe</td>
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<td>8</td>
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<td><strong>Synthesis of 1, 3 – Propanediol from Sorghum</strong>&lt;br&gt;CM Obele, OO Ogbobe</td>
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<td>9</td>
<td>24</td>
<td><strong>Determination of the Optical Properties of Rat Tissue</strong>&lt;br&gt;A Singh, AE Karsten, RM Smith, G van Niekerk</td>
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<td>10</td>
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<td><strong>Optical Coherence Tomography as a Research Tool for Biomaterials</strong>&lt;br&gt;AE Karsten, A Singh, I Ndhusdhabuma</td>
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<td>11</td>
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<td><strong>Ca/Al Layered Double Hydroxides Hydrothermally Modified for Biomaterials Applications</strong>&lt;br&gt;MS Azimi, ZT Birgani, A Darvish, SS Shafiei, MS Hashjin</td>
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<td>12</td>
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<td><strong>Application of Low Level Laser on skin cell lines</strong>&lt;br&gt;IM Ndhusdhabuma</td>
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<tr>
<td>Poster Number</td>
<td>Abstract Number</td>
<td>Title and Authors</td>
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<tr>
<td>13</td>
<td>41</td>
<td><strong>Simple Drug Delivery System Based on PRP and PCL Nanofibres</strong>&lt;br&gt;R Jakubová, A Míčková, M Buzgo, M Plencner, E Prosecká, E Filová, E Amler</td>
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<td>14</td>
<td>46</td>
<td><strong>Contact angle studies on PDMS surfaces fouled by bovine serum albumin</strong>&lt;br&gt;VT Windvoel, MB Mbanjwa, K Land</td>
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<td>15</td>
<td>47</td>
<td><strong>Novel injectable bioglass/chitosan composite for bone substitute materials</strong>&lt;br&gt;P Khoshakhlagh, R Ravarian, F Mozantarzadeh, R Moradi, SM Rabiee, P Heydari, MS Azimi</td>
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<td>16</td>
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<td><strong>Synthesis of silicon carbide nanowires from a hybrid of amorphous biopolymer and sol-gel derived silica</strong>&lt;br&gt;AK Mishra, SB Mishra, BB Mamba, RW Krause</td>
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<tr>
<td>17</td>
<td>51</td>
<td><strong>Phantom Skin Absorption Coefficients from Spectrophotometric and Integrating Sphere Methods: Preliminary Comparative Results</strong>&lt;br&gt;JE Smit, A Singh, I Tshoke, AF Grobler, RW Sparrow</td>
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<tr>
<td>18</td>
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<td><strong>Synthesis and characterisation of various polymer composites for applications in water purification</strong>&lt;br&gt;GD Vilakati, ST Mthombo, AK Mishra, SB Mishra, BB Mamba</td>
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<td>19</td>
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<td><strong>Preliminary investigation into the use of cyclodextrin-carbon nanotube polymers for drug delivery</strong>&lt;br&gt;R Krause</td>
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<td>20</td>
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<td><strong>Comparison of Osteoinduction in Biphasic Hydroxyapatite implanted in Two Different Animal Models</strong>&lt;br&gt;LF Renton, RB Parak, PW Richter, L Kotzé, U Ripamonti</td>
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<td>21</td>
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<td><strong>Determining the applicability of the SphereZymes® Immobilised Protease for the biocatalysis of Protein</strong>&lt;br&gt;LG Molawa, D Brady, J Jordaan</td>
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<td>22</td>
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<td><strong>Scaled Manufacture of Self-immobilised Pseudomonas fluorescens Lipase Using the SphereZymes™ Technology</strong>&lt;br&gt;K Mathiba, D Brady, B Petja, C Simpson, J Jordaan, FS Moolman, RD Gordon</td>
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<td>23</td>
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<td><strong>Optimisation of anti-tuberculosis drugs loaded –PLG nanoparticles</strong>&lt;br&gt;L Kalombo</td>
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<td>24</td>
<td>69</td>
<td><strong>Biomimetism, Smart Biomimetic Matrices and the Induction of Bone Formation</strong>&lt;br&gt;U Ripamonti, LF Renton, R Parak, L Kotzé, PW Richter</td>
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<tr>
<td>25</td>
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<td><strong>Targeted Plasmid DNA Delivery by Galactosylated Alkyl-Oligoamine Derivatives of PEI</strong>&lt;br&gt;A Dehshahri, RK Oskuee, WT Shier, M Ramezani</td>
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We would like to express our gratitude to the sponsors,

The Council for Scientific and Industrial Research (CSIR) in South Africa is one of the leading scientific and technology research, development and implementation organisations in Africa. It undertakes directed research and development for socio-economic growth.

Contact: +27 12 841 2000  
Web site: www.csir.co.za

National Research Foundation supports and promotes research through funding, human resource development and the provision of the necessary research facilities, in order to facilitate the creation of knowledge, innovation and development in all fields of the natural and social sciences, humanities and technology. In so doing, it contributes to the improvement of the quality of life of all the people of the country. The organisation was established in 1999 as a result of The NRF Act.

Contact: +27 12 481 4000 / 4001  
Web site: www.nrf.ac.za

Separations specialises in the supply of an extensive range of laboratory and process scale consumables and equipment for use in biological, pharmaceutical, water and research laboratories throughout Southern Africa.

Contact: +27 11 919 1000  
Web site: www.separations.co.za

BioPAD, Biotechnology Regional Innovation Centre established by the Department of Science and Technology (DST) in 2002 by a group of interested biotechnology stakeholders. The aim is boost biotechnology development in the region. At the core of BioPAD’s objectives is the implementation of the National Biotechnology Strategy of South Africa. The centre is governed as a Trust.

Contact: +27 12 844 0145  
Web site: www.biopad.org.za

The Cape Biotech Trust is a Biotechnology Innovation Centre (BIC) funded by the Department of Science and Technology (DST) with the objective to promote and develop a biotechnology industry in the Western Cape through project investments and capacity development. It forms part of a national network of organizations that collaborate to ensure the growth and development of the biotechnology industry in South Africa by implementing the national biotechnology strategy and managing the allocated funding.

Contact: +27 21 442 3780  
Web site: www.capebiotech.co.za

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Ms Janà van Heerden, Conference secretary, Council for Scientific and Industrial Research
Ms Kelly-Anne Mathews, Council for Scientific and Industrial Research
Dr Sean Moolman, Council for Scientific and Industrial Research
Ms Saloshnee Naidoo, Council for Scientific and Industrial Research
Dr Lebogang Katata, Council for Scientific and Industrial Research
Ms Lara Kotzé, Council for Scientific and Industrial Research
Mr Lonji Kalombo, Council for Scientific and Industrial Research
Ms Belle Nyamboli, Council for Scientific and Industrial Research
Dr Deon Bezuidenhout, University of Cape Town

Scientific Review Panel:
Prof Ugo Ripamonti, University of Witwatersrand, SA
Dr Deon Bezuidenhout, University of Cape Town, SA
Prof Rui Krause, University of Johannesburg, SA
Dr Sean Moolman, Council for Scientific and Industrial Research, SA
Dr Hulda Swai, Council for Scientific and Industrial Research, SA
Ms Naseem Theilgaard, Danish Technological Institute, Denmark
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Dr Wim Richter, Council for Scientific and Industrial Research, SA
Prof Annie Joubert, University of Pretoria, SA
Prof Awie Kotzé, North West University, SA
Dr Thilo van der Merwe, Council for Scientific and Industrial Research, SA
Dr Heidi Rolfes, University of Pretoria, SA
Ms Anne Grobler, North West University, SA
Mr Kobus van Wyk, Blueline Designs, SA

BioMatASA:
Web: www.biomatasa.org.za
email: info@biomatasa.org.za
CONTACT DETAILS

Conference Secretary:
Ms Janà van Heerden
Council for Scientific and Industrial Research (CSIR)
Tel: +27 12 841 4642
Email: jvheerden@csir.co.za

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