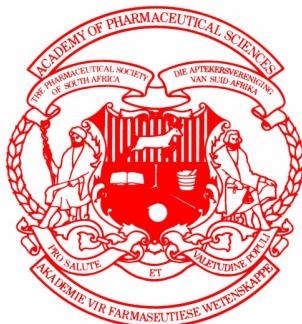


26<sup>th</sup> Annual Conference  
of the  
Academy of  
Pharmaceutical  
Sciences

“Innovations in Pharmaceutical  
Sciences”

Nelson Mandela Metropolitan University,  
Port Elizabeth  
29 September – 1 October 2005



**Nelson Mandela  
Metropolitan  
University**

*for tomorrow*

26th Annual Conference  
of the  
Academy of Pharmaceutical Sciences

29 September – 1 October 2005

Nelson Mandela Metropolitan University  
Port Elizabeth ■ South Africa

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## Invitation

Dear Colleagues and Friends

We are pleased to bring you the Second Announcement for the 26<sup>th</sup> Conference of the Academy of Pharmaceutical Sciences. Plans are well underway to bring you an exciting programme. Guest speakers from the UK, France and New Zealand will be addressing the conference on a stimulating array of topics. On the social side, we have planned an exciting event for each evening.

I encourage you and your students to submit abstracts for oral presentations and posters. Please encourage your colleagues and students to attend, as this will be a memorable occasion not to be missed.

Best wishes  
Professor Pieter Milne  
Conference Convenor

## Message from the Chairman

Dear Colleagues

It is with great pleasure that the Executive Committee of the Academy invite all interested persons to participate in their annual conference. The conference this year, with "*Innovations in the pharmaceutical sciences*" as a theme, will be hosted by the Nelson Mandela Metropolitan University in Port Elizabeth.

As the primary focus of the mission of the Academy is the promotion of research in the pharmaceutical sciences, the annual conference (the 26<sup>th</sup> this year) is a vital function of the Academy each year. The conference provides an opportunity for *all researchers and practitioners* involved in the field of pharmaceutical sciences to share information with their colleagues in both a formal (*podium or poster presentation*) and/or informal manner (interaction on an individual basis during and after sessions). Valuable opportunities for networking always arise at such a conference.

In addition to the opportunity to present your research, the Academy Conference also provides an opportunity for *recognition of excellence* in the pharmaceutical sciences. As part of the proceedings prizes are awarded for: the Best Publication in each of the fields of Pharmacology, Pharmacy Practice, Pharmaceutics and Pharmaceutical Chemistry; the Pharmacy Teacher of the Year and; the Young Scientist (judged from presentations at conference).

We therefore encourage you to participate in the conference which this year, with four invited international speakers (representing the four disciplines of the Pharmaceutical Sciences) and two post conference workshops, promises to hold something of interest to all.

Sincerely  
Shirley-Ann Boschmans  
Chairman, Academy of Pharmaceutical Sciences

## Organising Committee and Contact Information

**Convenor :** Pieter Milne [pieter.milne@nmmu.ac.za](mailto:pieter.milne@nmmu.ac.za)  
Tel: 041-5042760

**Secretary:** Sue Burton [susan.burton@nmmu.ac.za](mailto:susan.burton@nmmu.ac.za)  
Tel: 041-5044212

**Treasurer:** Gareth Kilian [gareth.kilian@nmmu.ac.za](mailto:gareth.kilian@nmmu.ac.za)  
Tel: 041-5042651

### Contact Details

Department of Pharmacy  
Nelson Mandela Metropolitan University  
PO Box 77000  
Port Elizabeth  
6031  
Tel: +27 41 5044212  
Fax: +27 41 5042744

### Conference Secretariat:

Professor Pieter Milne, Professor Ben Potgieter, Mr Gareth Kilian, Ms Sue Burton, Ms Bev Gold, Ms Maryanne King and members of the Department of Pharmacy, Nelson Mandela Metropolitan University

### Website:

For latest updates, detailed conference information and downloadable forms please visit our conference website: <http://www.nmmu.ac.za/aps/>

## General Information

### Hosts:

Department of Pharmacy, Faculty of Health Sciences, Nelson Mandela Metropolitan University, Port Elizabeth

### Venue:

Summerstrand Inn Hotel

### Enquiries:

Queries should be addressed to the Conference Secretary, Sue Burton at the contact address and number provided above.

### Language:

The official language of the Congress will be English

### Admission Passes:

Conference identification badges should be worn by all participants and accompanying persons during all Conference events, and will be required to gain access to the conference facility and social functions. These will be distributed at the information desk with the Conference Package, on arrival.

### Abstract Book:

An abstract book and any revisions to the programme will be included in the Conference Package.

## Registration and Deadlines

### Deadlines:

**Abstracts:** 30 June 2005

**Competition submission:** 30 June 2005

**Early Registration:** 30 June 2005

Registration after this date will incur a R300 penalty. However, registrations will be accepted up to the beginning of the Conference, with on site registration available.

### Fees:

These include conference registration, accommodation (3 nights), all social events, lunches and teas.

	Before 30 June 2005	After 30 June 2005 (late registration)
Members	R2500	R2800
Non- PSSA or Academy members	R2800	R3100
Full-time Students	R1600	R1900
Accompanying Person	R1500	R1800
Non-hotel accommodated	R1800	R2100

Daily registration, for those who are non-residential and only attending the conference for a portion of the time, R 500 per day including lunches and teas but no evening social events.

### Cancellation:

Written cancellations received before 31 July 2005 will entitle one to a refund of 75% of the registration fee. No refunds will be made for cancellations after this date.

### Registration and Information Desk:

The Registration and Information desk will be situated in the foyer of the Summerstrand Inn, clearly signposted. Participants are requested to visit the desk before the beginning of proceedings on the morning of the 29 September 2005 to receive their admission badges and Conference packages.

## Guest Speakers

Confirmed guest speakers include

- Prof Sanjay Garg, Associate Professor and Head of Pharmaceutics Group at the School of Pharmacy, University of Auckland, New Zealand. Prof Garg will be speaking about novel drug delivery systems and particularly the development of Acidform, an acid buffering vaginal formulation for prevention of transmission of HIV and other STDs, which he developed as a post-doctoral fellow and the development of osmotic systems of glipizide.
- Prof Claire Anderson, Professor of Social Pharmacy and Director of the Centre for Pharmacy Health and Society at the School of

Pharmacy, University of Nottingham, UK. Prof Anderson will be talking about the role of community pharmacists in improving the health of the public and the Community Pharmacy Medicines Management Project, a Department of Health funded multi-centre, randomised controlled trial which has evaluated the role of pharmacists in advising patients and prescribers concerning appropriate treatment for coronary heart disease.

- Prof Alain Carpy, Director of Research CNRS and Deputy-Director of the L.P.T.C., a lab involved in environmental research at the University of Bordeaux, France. Prof Carpy's topics will be "e-Bioinformatics and rational drug design" and "*In silico* scenario for drug design".
- Dr. Michelle Middle, Chief Executive Office, South Africa Clinical Trials, trading as QdotPharma, George, RSA. Dr Middle will be speaking on contract clinical research – strategies for consistently delivering quality data on time.
- Prof. Frank Otto Müller, Chief Scientific Officer, South Africa Clinical Trials, trading as QdotPharma, George, RSA. Prof Müller's topic will be "Proof of concept for go/no-go decisions in regard to drug development".

## **Specialist Workshops**

Two specialist workshops will be offered on the Sunday morning (2<sup>nd</sup> October), from 9:00 to 11:30am. The confirmed details are provided below, further details will be available on the website.

### **1. Pharmacy Practice Workshop**

This will be facilitated by Prof Ilse Truter and Mrs Vassie Naidoo. It will include the launch of the Pharmacy Practice Forum and open discussions on the following topics:

- Common problems experienced in teaching Pharmacy Practice
- Achieving optimal integration of the theory and practice in Pharmacy Practice
- Impact of legislative changes on the undergraduate Pharmacy Practice curriculum
- Research in Pharmacy Practice - Quo Vadis?

It will be of interest to anybody interested in improving and developing Pharmacy Practice teaching and research activities.

### **2. Streamlining the Registration of Medicines**

The details of this workshop have yet to be confirmed.

## **Presentations**

Contributions in any area of pharmaceutical research are invited for presentation at the conference either as an oral communication (podium) or as a poster presentation. Submissions for research sessions should relate to original, previously unpublished work contributing to the understanding, or

development of pharmaceutical science including clinical pharmacy, pharmacy practice and pharmaceutical education.

Submissions for research will be adjudicated on the basis of clearly outlining the research methodology used and with conclusions that are supported by the described findings. Submissions that represent novel and interesting research approaches but which may still be incomplete may be acceptable as research in progress, where the author indicates that category on the abstract submission form. The adjudicating panel will make the final decision on the category in which the abstract is accepted and the form of presentation although your preference of presentation method should be noted on the submission form.

### **Young Scientist Competition:**

The Young Scientist Award entrants will all present podium presentations and an award will be made to the young scientist who delivers the best podium presentation at the conference. This competition is open to Academy members only. The presentation must be based on the work undertaken for the participant's first postgraduate degree and be the participant's first podium presentation at a conference (other than an internal event at the institution at which the participant was registered for the degree). Full submission criteria and application forms for entry into this competition are available from the Conference Secretary, Sue Burton ([susan.burton@nmmu.ac.za](mailto:susan.burton@nmmu.ac.za)) or from the website.

### **Sound and Visual Options:**

Data, slide and overhead projection facilities will be available. Details of these will be provided on acceptance of abstracts for podium presentation.

## **Abstracts – Podium Presentations and Posters**

### **Submission of Abstracts**

**Deadline:** 30 June 2005

#### **Format:**

Size:	The full abstract should be no longer than one A4 page; with margins of 2.54cm.
Font:	Times New Roman; text size 12 unless otherwise specified.
Title:	<b>Bold Text in Upper and Lower Case</b> , font size 14, centred.
Authors:	First name and Surname of each author, <b>bold</b> , font size 12, centred. Presenting author's name to be underlined.
Affiliations:	Name of department and institution, font size 10, <b>bold</b> , centred. Include affiliation of all co-authors if different from the presenting author.
Text:	Single line spacing and full justification.
Paragraphs:	Begin each new paragraph with a single indent on the first line. Do not leave lines between paragraphs.
Headings:	These should be in bold, font size 12, each on a separate line and should not be indented.
References: (optional)	Please use the following method of citation if you include references A. Mahammadi, I. Kanfer and R.B. Walker, A capillary zone electrophoresis (CZE) method for the determination of cyclizine hydrochloride in tablets and suppositories. J. Pharm. Biomed. Anal. 35(1), 233-239 (2004).
Acknowledgements	Heading – <b>bold</b> , size 12. Optional to include.

Please send two hard copies and one electronic copy (on a stiffy disk, or as an e-mail attachment) to the Conference Secretariat. Abstracts should either be accompanied by an abstract submission form or a Young Scientist Competition Entry Form.

**Example of an Abstract:**

See page 10 for a full page example of an abstract. The sample abstract can also be downloaded from the website.

**Poster Presentations:**

Special sessions in the programme have been set aside for the presentation of the posters and each contributor will have two minutes in which to speak to the poster (without the use of any audio-visual aids).

*Posters:* Should be 100cm (height) x 90cm (width) in dimension and should include the title of the presentation, the author's name, and institution(s), city and country of the author. Lettering for the title should be at least 25mm in height, and at least 10mm for the text. Posters should be readable from a distance of 2 metres.

Specified areas will be available for the display of posters and authors will be responsible for putting up their own posters.

## Competitions

As at past conferences the Academy will recognize excellence in the Pharmaceutical Sciences. Members of the Academy are invited to submit entries for the following competitions:

- Pfizer Pharmacy Teacher of the Year Award
- Young Scientist competition;
- Best Publication in the Category Pharmaceutical Chemistry;
- Best Publication in the Category Pharmaceutics;
- Best Publication in the Category Pharmacology;
- Best Publication in the Category Pharmacy Practice.

For entry criteria and submission forms for the competitions please contact the Conference Secretary, Sue Burton ([susan.burton@nmmu.ac.za](mailto:susan.burton@nmmu.ac.za)) or they can be downloaded in Word or pdf format from the conference website.

## Events and Entertainment

**Official Conference Events:**

29 September 2005	Welcome Cocktail Party
30 September 2005	Braai evening
1 October 2005	Banquet

### **Attractions in Port Elizabeth:**

Why not arrive early and become acquainted with your surroundings, or extend your visit to Port Elizabeth to take in the amazing array of activities and sights on offer. Enjoy artistic attractions, monuments and museums testifying to the rich history of the area, a traditional Xhosa experience, the renowned wilderness destinations and famous game reserves, nearby beautiful and unspoilt beaches, hiking trails, fishing and golf. For details contact the Nelson Mandela Bay Tourism Office:

Telephone: (041) 581 7540 / (041) 582 2575; International: + (27) 41 581 7540 / + (27) 41 582 2575; Fax no: (041) 581 7544 / (041) 582 2573; International + (27) 41 581 7544 / + (27) 41 582 2573; e-mail: [info@nmbt.co.za](mailto:info@nmbt.co.za); Website Address: <http://www.nmbt.co.za>

### **Accommodation**

All conference delegates will be accommodated in the Summerstrand Inn Hotel and accommodation at the conference price will be in double rooms. Single rooms will be available on request at an extra charge of R180 per night. Please remember to indicate your accommodation preference on the conference registration form and the name of the person with whom you wish to share if you do not request a single room.

### **Conference Transport**

Conference transport to and from Port Elizabeth Airport will be provided. If you wish to take advantage of this service please indicate on the registration form and provide details of your flight arrival and departure times. Please inform us of any subsequent changes in your travel plans.

### **Conference Checklist**

- Registration form submitted by 30 June 2005
- Payment completed and details submitted
- Flights/bus/car booked
- Social functions selected and booked
- Dietary preference specified
- Abstract and abstract form submitted by 30 June 2005
- Presentation preference indicated
- Competition forms completed and submitted with relevant accompaniments by 30 June 2005
- Confirmation of registration received from Conference Organisers
- Notification of abstract acceptance received from Conference Organisers



## ACADEMY CONFERENCE 2005 REGISTRATION FORM



### PERSONAL DETAILS:

<b>Surname:</b>	<b>Initial:</b>	<b>Title:</b>	<b>First name:</b>
<b>Employer/Institution:</b>		<b>PSSA No/Academy No:</b>	
<b>Postal Address:</b>			
<b>Town:</b>		<b>State/Province:</b>	
<b>Country:</b>		<b>Postal/Zip Code:</b>	
<b>Tel:</b>	<b>Fax:</b>	<b>Email:</b>	
<b>Do you require disability access:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>My requirements are:</b>	

### ACCOMPANYING PERSON:

<b>Surname:</b>	<b>Initial:</b>	<b>Title:</b>	<b>First name:</b>
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### SOCIAL FUNCTIONS:

Tick the boxes of the functions you wish to attend:

<b>29/9 Welcome Cocktail Party</b>	<b>Delegate:</b> <input type="checkbox"/>	<b>Accompanying Person:</b> <input type="checkbox"/>
<b>30/9 Braai evening</b>	<b>Delegate:</b> <input type="checkbox"/>	<b>Accompanying Person:</b> <input type="checkbox"/>
<b>1/10 Banquet</b>	<b>Delegate:</b> <input type="checkbox"/>	<b>Accompanying Person:</b> <input type="checkbox"/>
<b>Please state specific dietary requirements (if any):</b>		
<b>Delegate:</b>		<b>Accompanying Person:</b>

**PRESENTATIONS:**

(To be completed by delegates wishing to present research at the conference)

Are you submitting an abstract with this registration form (abstracts must be submitted in the specified format)?:
<input type="checkbox"/> Yes <input type="checkbox"/> No
All abstracts submitted must be accompanied by an “Abstract submission form” or a “Young Scientist Entry Form”, are either of these being submitted with this registration form?:
<input type="checkbox"/> Yes <input type="checkbox"/> No
Although the adjudicating panel will make the final decision on the category and format for presentation of accepted contributions, please indicate your presentation preference:
<input type="checkbox"/> Podium presentation (15 minute presentations)
<input type="checkbox"/> Poster presentation (you will be required to speak to your poster for 2 mins)
<input type="checkbox"/> Young Scientist Competition (all Young Scientist entries will be podium presentations)

**ACCOMODATION:**

Please state accommodation preference:

Accommodation at the conference venue (Summerstrand Inn), at the conference price will be in double rooms. If you require a single room this will be at an extra cost of R180 per night. Please indicate your accommodation preference and hereby your willingness to pay the extra cost per night if you opt for a single room.
Single Room: <input type="checkbox"/>
Double Room: <input type="checkbox"/>

If you have indicated a double room please indicate the name of the person with whom you wish to share:

Delegate	Date of first Night:	Date of last night:
	Total number of nights:	
Accompanying Person	Date of first Night:	Date of last night:
	Total number of nights:	

**TRANSPORT:**

Please complete if you would like transport to and from the airport:

Arrival	I would like transport from PE airport to the conference venue: <input type="checkbox"/> Yes <input type="checkbox"/> No		No of people:
	Date:	Time:	Flight No:
Departure	I would like transport from the conference venue to PE airport: <input type="checkbox"/> Yes <input type="checkbox"/> No		No of people:
	Date:	Time:	Flight No:

**WORKSHOPS:**Please indicate if you would like to attend either of the following workshops on Sunday 2<sup>nd</sup> October (9.00-11.30):

Pharmacy Practice Forum Workshop:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Industry – Registration Workshop:	<input type="checkbox"/> Yes <input type="checkbox"/> No

**CONGRESS INVOICE:**

Registration	Early (before 30 June 2005)	Late (after 30 June 2005)	Totals
Members:	R 2500 <input type="checkbox"/>	R 2800 <input type="checkbox"/>	R
Non-members:	R 2800 <input type="checkbox"/>	R 3100 <input type="checkbox"/>	
Full time students:	R 1600 <input type="checkbox"/>	R 1900 <input type="checkbox"/>	
Accompanying person:	R 1500 <input type="checkbox"/>	R 1800 <input type="checkbox"/>	
Non-hotel accommodated (includes lunch and evening events):	R 1800 <input type="checkbox"/>	R 2100 <input type="checkbox"/>	
Extra Payment if a single room has been requested: R540			R
Daily Rate (For those who are non-residential and only attending the conference for a portion of the time): R500 (this includes lunch and teas but no evening social events). Please indicate the days on which you wish to attend:			R
Social Events (those attending on a daily basis only) :			R
29/9 Welcome Cocktail Party – R100 <input type="checkbox"/>			
30/9 Braai evening – R100 <input type="checkbox"/>			
1/10 Banquet – R150 <input type="checkbox"/>			
<b>Grand Total</b>			R

**METHOD OF PAYMENT:**

A cheque is enclosed <input type="checkbox"/>	Direct Bank Transfer <input type="checkbox"/>
Cheques payable to: APS Conference 2005	Account Name: APS Conference 2005 Bank: Standard Bank, Summerstrand Account No: 080183646 Branch Code: 050017 NB: Please fax your bank transfer slip to 041-5042744 and mark it Academy Congress 2005

Signature:	Date:
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Completed form to be sent to: Ms Sue Burton, Conference Secretary: Academy of Pharmaceutical Sciences, c/o Dept Pharmacy, Nelson Mandela Metropolitan University, PO Box 77000, Port Elizabeth. Forms may also be sent electronically to [susan.burton@nmmu.ac.za](mailto:susan.burton@nmmu.ac.za).

## Sample Abstract

### **An Investigation Into the Potential Cytotoxic and Antithrombotic Effects of the Histidine-containing Diketopiperazines Cyclo(His-Ala) and Cyclo(His-Gly)**

Franco R. Lucietto, Emile van der Merwe, Pieter J. Milne and Carmen E. Meyer\*  
*Cyclic Peptide Research Unit, Department of Pharmacy, University of Port Elizabeth, Box 1600, Port Elizabeth 6000, \*Department of Biochemistry and Microbiology, University of Port Elizabeth, Box 1600, Port Elizabeth 6000*

#### **Purpose:**

Death from cancer is usually due to secondary spread (metastasis) of the original tumour through blood. Furthermore most solid tumours rely upon blood as a source of nutrition required for growth. The aim of this study was to investigate possible novel anticancer agents, which besides having cytotoxic activity, also affect haemostasis and ultimately prevent the spread and growth of tumour cells.

#### **Methods:**

Haematological studies performed included thrombin substrate binding, platelet aggregation and fibrinolysis assays. Cytotoxicity screening was performed using a tetrazolium-based assay on three cell lines, namely HeLa (cervical carcinoma), HT-29 (colon carcinoma) and MCF-7 (breast tissue carcinoma).

#### **Results:**

Cyclo(His-Ala) showed promising antitumour activity against all three cell lines, having the greatest effect on HeLa cells. Overall effects exerted by cyclo(His-Ala) were comparable to those observed for cisplatin in this study. The cyclic dipeptides in this study exhibited varied antithrombotic activity. Both cyclo(His-Ala) and cyclo(His-Gly) proved to significantly ( $p < 0.001$ ) inhibit thrombin binding to the substrate, suggesting they may have an antagonistic effect on the thrombin effector. These promising results justify the need for further in-depth investigation into histidine-containing diketopiperazines as potential anticancer and antithrombotic agents.