



## CONGRESS DATE

The Department of Genetics, University of the Free State will be hosting the 21<sup>st</sup> Biennial Congress of the South African Genetics Society in Bloemfontein from 9 - 11 April 2010.

## CONGRESS THEME

“Scoring a Goal for Genetics”

## REGISTRATION & REGISTRATION FEES

Registration is open to any person that is interested in attending the Genetic Congress and payment of the registration fee allows access to all sessions.

Please complete the registration form electronically ([registration form](#)) and e-mail it to [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za) before or on 29 January 2010.

Registration fees are R500 for members, R750 for non-members, R300 for student members and R400 for student non-members. This will include attendance to all sessions, but not the Cocktail event and Congress dinner. Proof of payment must be send to fax number **086 518 7317** or e-mailed to [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za). Please pay for registration not later than 29 January 2010. The banking details for payment is:

Bank: **ABSA**

Account: **University of the Free State**

Account number: **1570850071**

Branch code: **632005**

Reference number (NB!): **1 124 58834**

## LATE REGISTRATION & CANCELLATIONS

Fees for late registration and cancellation are respectively 10% and 25%.

## KONGRES DATUM

Die Department Genetika, Universiteit van die Vrystaat bied die 21<sup>ste</sup> Tweejaarlikse Kongres van die Suid-Afrikaanse Genetiese Vereniging in Bloemfontein aan vanaf 9 - 11 April 2010.

## KONGRES TEMA

“Scoring a Goal for Genetics”

## REGISTRASIE & REGISTRASIEFOOIE

Enige persoon wat belangstel om die Genetiese Kongres by te woon is welkom om te registreer en betaling van die registrasie verleen toegang tot al die sessies.

Voltooi asb die registrasievorm elektronies en e-pos terug na [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za) voor of op 29 Januarie 2010.

Registrasiefooie is R500 vir lede, R750 vir nie-lede, R300 vir studente-lede en R400 vir studente nie-lede. Dit sluit toegang tot alle sessies in, maar nie die vingerete en kongresdinee nie. Bewys van betaling moet asb gestuur word na faksnr. **086 518 7317** of e-posadres [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za). Betaling vir registrasie moet asb nie later as 29 Januarie 2010 wees nie. Bankbesonderhede vir betaling is:

Bank: **ABSA**

Rekening: **Universiteit van die Vrystaat**

Rekening nommer: **1570850071**

Takkode: **632005**

Verwysingsnommer (NB!): **1 124 58834**

## LAAT REGISTRASIE & KANSELLASIES

Foie vir laat registrasie- en kansellasie is onderskeidelik 10% en 25%.





## CALL FOR ABSTRACTS

The deadline for the abstracts is Friday 26 February. Abstract must not be more than 250 words and must be in the prescribed form (see end of document for an example). E-mail all abstracts to [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za).

## ORAL SESSIONS

Oral presentations will be 15 minutes with 5 minutes discussion time, except for key speakers to which 20 minutes time will be allocated.

## POSTER SESSIONS

All posters must be size A0.

## FINAL PROGRAM

The final program will be available on the website of the South African Genetic society (<http://www.sagene.co.za/home.aspx>) by March 2010.

## CONGRESS VENUE

**VENUE** The congress will be held at the C.R. Swart Auditorium at the University of the Free State, Bloemfontein.

**MAP** Visit

<http://www.ufs.ac.za/apps/map/index.php> for a map of the campus. The C.R. Swart auditorium is number 44 in block D5 on the map.

## EVENTS

**COCKTAIL** A welcome cocktail event for all attendees will be held after registration. Cost per person is R70.

**CONGRESS DINNER** The congress dinner will be held on Saturday 10 April 2010. The fee for the dinner is not included in the registration fee, and will be R180 p/p. More detail will later be available at <http://www.sagene.co.za/home.aspx>.

## INDIENING VAN UITTREKSELS

Sperdatum vir uittreksels is Vrydag 26 Februarie. Uittreksels mag nie meer as 250 woorde wees nie en moet in die gespesifiseerde formaat wees (sien einde van dokument vir 'n voorbeeld). Stuur alle uittreksels na [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za)

## SPREEKSESSIES

Aanbiedings is 15 minute met 5 minute besprekingstyd, behalwe vir sleutelsprekers vir elke sessie, wat 'n spreektyd van 20 minute het.

## PLAKKAATSESSIES

Alle plakkate moet A0 wees.

## FINAL PROGRAM

Die finale program sal op die Suid Afrikaanse Genetiese Vereniging se webbladsy beskikbaar wees teen Maart 2010 (<http://www.sagene.co.za/home.aspx>).

## KONGRESLOKAAL

**LOKAAL** Die kongreslokaal is die C.R. Swart Ouditorium by die Universiteit van die Vrystaat, Bloemfontein.

**KAART** Besoek

<http://www.ufs.ac.za/apps/map/index.php> vir 'n kampuskaart. Die C.R. Swart ouditorium is nommer 44 in blok D5 op die kaart.

## GEBEURTENISSE

**VERWELKOMING** 'n Verwelkomings vingerete sal vir alle bywoners gehou word na registrasie. Koste per persoon is R70.

**KONGRESDINEE** Die kongresdinee sal op Saterdag 10 April 2010 gehou word. Die koste vir die ete is nie in die registrasiefooi ingesluit nie en beloop R180 p/p. Meer inligting sal later aan u deurgegee word by

<http://www.sagene.co.za/home.aspx>.





### ACCOMODATION

There is a group booking for congress attendees in the exclusive *Villa Favorita*, which is walking distance from the University. Rates will be available by the end of November. Visit their web page at [www.favorita.co.za](http://www.favorita.co.za) for more information.

Payment for accommodation is separate from the registration fee and must be paid directly to *Villa Favorita*.

### CONTACT

If you have any queries regarding the congress, please feel free to contact Paula Spies by e-mail [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za) or fax 086 518 7317.

### AKKOMODASIE

'n Blokbespreking vir kongresgangers is in die eksklusiewe *Villa Favorita* gemaak wat loopafstand vanaf die Universiteit is. Pryse sal teen einde November beskikbaar wees. Besoek hulle webbladsy by [www.favorita.co.za](http://www.favorita.co.za) vir meer inligting.

Betaling vir verblyf is afsonderlik van die registrasiefooi en moet direk aan *Villa Favorita* betaal word.

### KONTAK

Vir enige kongres navrae, kontak gerus vir Paula Spies by e-pos [genetics@ufs.ac.za](mailto:genetics@ufs.ac.za) of faks by 086 518 7317





## Abstract format / Uittreksel formaat

### **Title of poster / lecture [Times New Roman Bold 14pt]**

Authors [Surname1, Name1; Surname2, Name2 & Surname Last Author, Name Last Author –  
Times New Roman (TNR) 12pt Superscript 1, 2, etc. to link to address]

Addresses [TNR 12pt]

Maximum of 250 words, Line spacing single, Justified, TNR 12pt, Margins 2.54, paper size A4.

---

## Abstract example / Uittreksel voorbeeld

### **Basic chromosome numbers and the phylogeny of *Lachenalia*.**

Spies<sup>1</sup>, Johan\*, Spies<sup>1</sup>, Paula & Kleynhans<sup>2</sup>, Riana

<sup>1</sup> Dept. of Genetics, UFS, Bloemfontein; <sup>2</sup> ARC-Roodeplaat, Pretoria, \* Presenter

Various basic chromosome numbers have been observed in the approximately 120 species forming the genus *Lachenalia*, i.e. 5, 6, 7, 8, 11 & 13. The aim of this study was to compare the basic chromosome numbers with a molecular phylogeny and to determine whether these numbers are correlated with specific clades. Chromosome numbers were determined from mitotic and/or meiotic material by squashes in 2% acetocarmine. The molecular data were obtained from sequences of the *trn<sub>L-F</sub>* region. Sequences were aligned with the aid of CLUSTAL G and manually corrected. Cladograms were obtained using PAUP 4.0b10. Sequences of 64 taxa were obtained from Genbank and 137 taxa were sequenced during this study. Chromosome numbers of 54 taxa were determined and compared with published chromosome numbers to determine basic chromosome numbers. These numbers were superimposed on the cladograms and it indicated that the majority of basic chromosome numbers is monophyletic and forms a logical descending aneuploid series. Deviations from this pattern indicate reticulate evolution where the phylogenetic pattern is obscured by the maternal inheritance of the chloroplast. This study suggests that the basic chromosome number of the family Hyacinthaceae can be used as an indication of the phylogenetic affiliation of the specific taxon.