

# PROGRAM

**Tuesday 24<sup>th</sup>: Arrival and hotel accommodation**

**Wednesday 25<sup>th</sup>:**

9.00-11.00 h. Registration (Rectorado of the University)

12.00 h. Opening ceremony (Salón de Actos, Rectorado)

13.00 h. Poster set up

13.30 h. Lunch and poster vision

## ***Plenary Session 1: CLINICAL CYTOGENETICS***

Chairmen: D. Di Berardino and M.V. Arruga

15.15-15.45. *Main lecture:* L. Iannuzzi

### ***CLINICAL CYTOGENETICS IN DOMESTIC BOVIDS: AN UPDATE***

*Oral communications:*

15.45-16.00: De Lorenzi L., Rossi E., Genualdo V., Gimelli S., Lasagna E., Perucatti A., Iannuzzi L., Parma P.: **Molecular and cytogenetic characterization of an Xp-chromosome deletion in cattle**

16.00-16.15: Brunner R.M., Hadlich F., Guenther J., Wimmers K, Seyfert HM.: **Inventory of micro RNA expression in the cow's udder during lactation and acute mastitis established with Illumina deep sequencing**

16.15-16.30: Ahmad Ali, Hamid Mustafa, Bilal Bin Majeed: **Clinical cytogenetic investigations of Nili Ravi buffalo population in Pakistan**

16.30-16.45: Iannuzzi A , Perucatti A., Genualdo V., De Lorenzi L., Peretti V., Di Berardino D., Parma P., Iannuzzi L.. **Two New Reciprocal Translocations in sheep (*Ovis aries*, 2n=54)**

17.00-18.00: Coffee break and posters vision

20.30 h. Welcome reception: Alcázar de los Reyes Cristianos  
Official Reception: Roman Mosaics Hall  
Concert of Spanish Guitar: Roman Mosaics Hall  
Spectacle of Water, Light and Sound: Alcázar's Garden

**Thursday 26<sup>th</sup>:**

***Plenary Session 2: MOLECULAR CYTOGENETICS AND GENE MAPPING***

Chairmen: M. Bugno-Poniewierska and M. Switonski

9.00-9.30 h. *Main lecture:* M.A. Ferguson-Smith

***VERTEBRATE PHYLOGENY REVEALED BY CHROMOSOME PAINTING***

9.30-10.00 h. *Main lecture:* Thomas Cremer

***STRUCTURAL BASIS OF NUCLEAR FUNCTION: THE CHROMOSOME TERRITORY – INTERCHROMATIN COMPARTMENT (CT-IC) MODEL OF NUCLEAR ARCHITECTURE***

*Oral communications*

10.00-10.15: De Lorenzi L., Genualdo V., Gimelli S., Rossi E., Perucatti A., Zannotti M., Malagutti L., Molteni L., Iannuzzi L., Parma P. **Genomic analysis of cattle rob(1;29)**

10.15-10.30: Lahbib-Mansais Y., Barasc H., Hamont L., Mompert F., Iannuccelli E., Gellin J., Riquet J., Yerle-Bouissou M. **Nuclear architecture of the imprinted locus IGF2 in pig**

10.30-10.45: Mompert F., Robelin D., Delcros C., Yerle-Bouissou M. **3D organization of telomeres in control and LPS-activated porcine neutrophils**

10.45-11.00: Capilla L., Segura J., Medarde N., Ventura, Ruiz-Herrera A. **An assessment of the recombination rate in a wild Robertsonian population of *Mus musculus domesticus***

11.00-11.30 h. Coffee break and poster vision

### **Plenary Session 3: REPRODUCTIVE AND MUTATIONAL CYTOGENETICS AND CHROMOSOMAL FRAGILITY**

Chairmen: A. Pinton and L. Iannuzzi

11.30-12.00 h. *Main lecture*: D. Di Berardino

#### ***BASELINE LEVEL OF ANEUPLOIDY IN BOVINE (*Bos taurus*, L.) SPERMATOZOA AND SECONDARY OOCYTES BY USING DUAL COLOR FLUORESCENT IN SITU HYBRIDIZATION (FISH)***

12.00-12.30 h. *Main lecture*: J. Rubes

#### ***INVESTIGATION OF SPERM DNA DAMAGE***

*Oral communications*

12.30-12.45: Barasc H., Mary N., Ferchaud S., Raymond Letron I., Calgaro A., Dudez A.M., Bonnet N., M. Yerle M., Ducos A., Pinton A. **Meiotic analysis of a teratospermic boar**

12.45-13.00: Demyda-Peyrás S., Dorado J., Hidalgo M., De Luca L., Moreno-Millán M. **Preliminar results of the influence of the oocyte maturation media in the chromosomal numeric abnormalities on the in vitro derived early cattle embryos.**

13.00-13.15: Hornak M., Jeseta M., Musilova P., Oracova E., Hulinska P., Pavlok A., Kubelka M., Motlik J., Anger M., Rubes J. **Aneuploidy in pigs: From the oocytes to blastocysts**

13.15-13.30: Rubessa M., Iannuzzi A., Peretti V., Pauciullo A., Ciotola F., Albarella S., Cosenza G., Ramunno L., Iannuzzi L., Di Berardino D. **Preliminary observations on Sister Chromatid Exchanges (SCEs) induced by high dosages of BrdU in metaphase chromosomes of the Agerolese breed of cattle (*Bos taurus*)**

13.30 h. Lunch and poster vision

*Oral communications*

15.30-15.45: Genualdo V., Perucatti A., Iannuzzi A., Giannico F., Spagnuolo M.S., Colonna M.A., Caputi-Jambrenghi A., Vonghia G., Iannuzzi L. **Chromosome fragility in dioxin-exposed cattle (*Bos taurus*, 2n=60) and river buffaloes (*Bubalus bubalis*, 2n=50)**

15.45-16.00: Demyda-Peyrás S., Rodero Franganillo, A., Rodero Serrano, E., Martínez A., Generio E., Moreno-Millán M. **Populational study of the t1;29 translocation in Andalusian minority cattle breeds**

**Plenary Session 4: COMPARATIVE GENOMICS AND KARYOTYPE EVOLUTION**

Chairmen: J. Rubes and M. Yerle

16.00-16.30 h. *Main lecture*: D. Griffin

**AVIAN CHROMOSOMES: FROM PARTIAL KARYOTYPES TO ASSEMBLED GENOMES AND ALL THINGS IN BETWEEN**

16.30-17.00 h. *Main lecture*: T. Robinson

**CHROMOSOMAL EVOLUTION AND SIGNATURES OF PHYLOGENETIC DIVERSIFICATION**

17.00-17.30- Coffee break and posters vision

*Oral communications*

17.30-17.45: Farré M., Ruiz-Herrera A. **Genomic shuffling and recombination rates during human and chimpanzee diversification**

17.45-18.00: Murua Escobar H., Rütgen B., Reimann-Berg N., Willenbrock S., Essler S., Saalmüller A., Nolte I. **Chromosomal stability in an *in vivo* model of canine lymphoma**

18.15-18.30: Goldammer T., Rebl A., Perucatti A., Genualdo V., Iannuzzi A., Di Berardino D., Iannuzzi L. **Comparative landmark loci for the X chromosomes in domestic cattle, river buffalo and sheep**

18.30-18.45: Reimann-Berg N., Murua Escobar H., Willenbrock S., Eberle N., Bullerdiek J., Nolte I. **Is there still a need for conventional chromosome analyses in dogs?**

18.45-19.00: Nicodemo D., Pauciullo A., Cosenza G., Peretti V., Perucatti A., Ficco G., Ramunno L., Iannuzzi L., Rubes J., Di Berardino D. **A Cytogenetic comparison between yak (*Bos grunniens*) and cattle (*Bos taurus*)**

19.00-19.15: Mamat-Hamidi K., Hilmi M., Idris I., Di Berardino D., Iannuzzi L. **Chromosome evolution in the Malayan gaur (*Bos gaurus hubbacki*)**

20.30: Visit by night to the “Mezquita-Catedral” and free dinner.

**Friday 27<sup>th</sup>:**

***Plenary Session 5: CYTOGENETICS OF FISH AND OTHER COLD BLOODED VERTEBRATES***

Chairmen: E. Coluccia and R. Brunner

9.00-9.30 h. *Main lecture:* E. Olmo

***GENOME VARIATION AND EVOLUTION OF COLD-BLOODED VERTEBRATES***

*Oral communications*

9.30-9.45 : Pokorná M., Kratochvíl L., Giovannotti M., Trifonov V.A., Ferguson-Smith M.A., Caputo V., Olmo E., Rens W. **A slow rate of chromosome evolution unites squamate reptiles**

9.45-10.00: Ocalewicz K., Dobosz S., Kuzminski H. **Distribution of telomeric DNA sequences on the radiation-induced chromosome fragments observed in the androgenetic brook trout (*Salvelinus fontinalis*) x Arctic char (*S. alpinus*) hybrids**

10.00-10.15: Pokorná M., Kratochvíl L., Kejnovský E. **Microsatellite distribution on sex chromosomes at different stages of heteromorphism and heterochromatinization in lizards**

10.15-10.30: Salvadori S., Coluccia E., Deidda F., Deiana A.M. **Comparative cytogenetics in Muraenidae: karyotype characterization of six Indo-Pacific moray eels**

10.30-10.45: Symonová R., Majtánová Z, Kořínková T, Jankun M, Dion-Côté A-M, Bernatchez L, Ráb P. **Chromosomal characteristics of rDNA genes in salmonid fishes: trends in their patterns and evolution**

10.45-11.15: Coffee break and posters vision

11.15-12.15 h.: **Poster session 1.** Chairmen: I. Nicolae and P. Parma

12.15-13.15 h.: **Poster session 2.** Chairmen: N. Reiman-Berg and S. Demyda

13.15-13.30 h. José Miguel García-Sagredo. **European Cytogeneticists Association (ECA)**

13.30-13.40: Awards for oral communications and posters

13.40-14.00 h. Conclusion and Remarks, proposal for the 21<sup>st</sup> ICACGM

14.00-15.30 h. Lunch

Afternoon free for shopping

20.00 h. Social dinner

**Saturday 28<sup>th</sup>:**

9.30-17.00 h.: Touristic excursion to Madinat al-Zahra (old Caliphal city) and the Almodóvar del Río castle with thematic lunch.