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NEW: Satellite Meeting

Welcome

Jointly organised by the European Microscopy Society (EMS), the German Society for Electron Microscopy (DGE) and the local microscopists from RWTH Aachen University and the Research Centre Jülich, the congress will bring together scientists from Europe and from all over the world. The venue of the meeting will be the Eurogress Centre at Aachen, a world class congress centre which is just a short walk away from the beautiful historic city centre of Aachen. We are looking forward to welcome you in Aachen and to share an exciting congress and a memorable week in one of the most beautiful towns in Germany with you.

Aachen, September 1 - 5, 2008

New: General Information

Information on Registration Opening Times and other important infos can be found [here].

Scientific Programme

The scientific programme committee has put together an exciting programme which covers all recent developments in the three major areas of instrumentation and methods, materials science and life science. Plenary and invited lectures will give overviews on exciting new developments and state-of-the-art research in the field and will be delivered by the worlds leading experts. Contributed papers with high significance will be selected as oral presentation. Special emphasis will be placed on the importance of the poster sessions and hence considerable time will be reserved for the presentation and discussion of the posters. On Sunday afternoon, Sunday courses of tutorial nature will be offered by renowned experts on specific topics of current interest. [more....]

Proceedings

Extended two-page abstracts of all submitted and accepted contributions will be published in the proceedings. Three hardcopy volumes (instrumentation and methods, materials science and life science) and one fully searchable CD-ROM will be available. The proceedings will be published by Springer.

Trade Exhibition

As in the past, EMC 2008 will host a major trade exhibition, which will bring together manufacturers of all different kinds of microscopy techniques, as well as suppliers of accessories and consumables, preparation tools, image analysis systems, and all important publishers in the field. The manufacturers will introduce their latest developments and highlight new potential applications in technical lectures which will address a general audience. In the Eurogress Centre, the commercial exhibition will form an integral part of the Congress and will contribute to the fact that EMC 2008 will be an all-embracing source of information for anybody who is interested in miscroscopy (more). microscopy. [more...]

Travel Information

Please make your travel arrangments early, as the first week of September is still within the bussy sommer period. Further informations on how to reach Aachen can be found [here].

For information and reservation of hotel accommodation please refer to the hotel accommodation

Please note that citizens of certain non-European countries need visa to enter Germany. Please consult your country's German Embassy if you are in doubt. If you need an invitation letter, please send an email with your complete address to the Congress Secretariat mailto: gfe@gfe.rwth-

Further Practical Informations

- Free wireless network access (W-LAN) will be offered to delegates in the main areas of the Congress Centre for the whole week.
- Meals and refreshments can be purchased in the Congress Centre and free coffee and refreshments will be offered to the delegates during the morning and afternoon breaks.
- Badges have to be worn throughout the week and are required for access to the Congress Centre.
- A message board and a job info board will be installed close to the registration desk.
 Tourist information can be collected at a special desk near the registration area.

Aachen - the city

Cytochemical and immunocytological study of the reptilian nucleolus

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Two distinct types of nucleolus exist among the eukaryotic cells: a bipartite and a tripartite nucleolus (Thiry and Lafontaine, 2005, TCB, 15: 194-199). Uncannily most of the eukaryotic organisms have bipartite nucleoli whereas tripartite nucleoli are found only in amniotic vertebrates. Although the fine structure of the nucleolus is well known in mammals and birds, it has been only described in two reptilian species.

In this work, we investigate the ultrastructural organization of the nucleolus in different tissues from 5 reptilian species: a lizard, a snake, two turtles and a crocodile.

With four techniques adapted to TEM, we have studied the ultrastructural organization and composition of the reptilian nucleolus.

By means of the acetylation method, we demonstrate that both types of nucleolus are present in reptiles: a tripartite nucleolus in the lizard and the crocodile and a bipartite nucleolus in the other species examined in this study.

Using the AgNOR method, we show that the fibrillar centers (FC) and the dense fibrillar component (DFC) of tripartite nucleolus are stained. But only the FC contains DNA as revealed with the in situ terminal deoxynucleotidyl transferase-immunogold labelling method.

As regards the bipartited nucleolus, only the electron-dense cordons of the fibrillar zone (FZ) contain AgNOR proteins and DNA.

Finally, we have examined the precise location of two nucleolar proteins (nucleolin and fibrillarin) in both nucleolar types by means of a lowicryl postembedding immunogold labelling technique. We show that, in tripartite nucleoli, nucleolin is preferentially located in the DFC and in the granular component (GC) whereas fibrillarin is essentially detected in the DFC. In bipartite nucleoli, these proteins are found in both nucleolar components and in the FZ, respectively.

These results suggest that the fibrillar and heterogenous zone of bipartite nucleoli would be the source of two distinct fibrillar components in the tripartite nucleolus.