

## **Excellence Initiative Newsletter from 30 April, 2015**

Dear readers, colleagues and students,

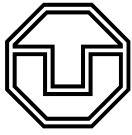
The CRTD Cluster of Excellence is able to report a remarkable breakthrough in the area of diabetes prevention. The TUD Cluster for Electronic Research, cfaed, is looking forward to its new building. In mid-April, the building work began. Also, numerous events at the University of Excellence are planned for the coming month of May.

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### **CRTD: Preventive Insulin Vaccine for Type 1 Diabetes**

Scientists working with Professor Ezio Bonifacio at the DFG Research Center for Regenerative Therapies – TUD Cluster of Excellence (CRTD), and with Professor Anette-Gabriele Ziegler at the Institute of Diabetes Research, Helmholtz Zentrum München, have taken the first successful step on the way to creating a preventive insulin vaccine for Type 1 diabetes. Children aged between 2 and 7 with a high risk of developing the disease were administered insulin orally over a period of 3 to 18 months. The control group was only given a placebo. No side effects such as hypoglycaemia occurred. In the next step, tests will now be carried out to determine whether an insulin vaccine can permanently prevent the onset of the disease. The results of this study have been published in the current edition of the renowned scientific journal, JAMA, the most widely read medical journal in the world.

Further information at: [www.diabetes-point.org](http://www.diabetes-point.org)



## **Rectorate Adopts Internationalisation Strategy**

At the end of March, the Rectorate adopted the Internationalisation Strategy "TU Dresden – Connected to the World", in this way emphasising TUD's image as an international and cosmopolitan university. The strategy, consisting of a strategy text and corresponding plans for implementation, was developed over a period of nearly a year together with various parties within the university, and is intended to advance the systematic and structured internationalisation process at TUD.

Over the coming years, the University will strive – at both central and decentralised levels – to make this strategy a reality. A large number of Institutional Strategy measures are already making a successful contribution to this aim. The entire process at TU Dresden will be supported by the "Internationalisation of Universities" Re-audit of the German Rectors' Conference (HRK).

You can find more details and the exact wording of the strategy text at:

[http://tu-dresden.de/die\\_tu\\_dresden/portrait/internationalisierung](http://tu-dresden.de/die_tu_dresden/portrait/internationalisierung).

## **Wide-ranging Programme at International Staff Training Week**

About 30 members of administrative staff from mainly European universities will be taking part in the International Staff Training Week of Technische Universität Dresden from 4 May to 8 May. The participants will be given an overview of the workflows at the Staff Unit Communication and Corporate Identity, the International Office and the EPC, as well as at the Transfer Office and the Project Scouts. They will also be introduced to projects within the framework of the Excellence Initiative (including the Graduate Academy, International Offices at the Schools and the Welcome Center). The wide-ranging programme also features tours of the Sächsische Landes- und Universitätsbibliothek (*Saxon State and University Library - SLUB*) and the Max Planck Institute of Molecular Cell Biology and Genetics.

[http://tu-dresden.de/sprint/staff\\_week](http://tu-dresden.de/sprint/staff_week)

## **ZSE: Practical Workshop "Employer Branding"**

The Centre for Synergy Enhancement (ZSE) has organised, in collaboration with the Career Service at TU Dresden, a one-day practical workshop on "Employer Branding", to be held on 4 June 2015. Guest speaker Ingo Müller, Senior Consultant at the "Deutsche Employer Branding Akademie", will lead the workshop for up to 20 HR specialists and executives of medium-sized



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**Pressestelle**

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companies. The aim of the event is to help participants to present themselves as attractive employers for staff members and job applicants, and to create an individual employer brand. Prospective participants can register up until 21 May at [zse@tu-dresden.de](mailto:zse@tu-dresden.de) or at [susan.wildenhain@tu-dresden.de](mailto:susan.wildenhain@tu-dresden.de), giving their name, position, company and billing address, together with the number of employees. More information is also available at: <http://tu-dresden.de/zse>

### **Combined Imaging Ensures High-Precision Cancer Diagnostics**

A highly-specialised device for use in cancer diagnostics has been relocated from the Helmholtz-Zentrum Dresden-Rossendorf to the University Hospital Dresden (UKD).

The combination of positron emission tomography (PET) and magnetic resonance imaging (MRI) helps to diagnose cancer as precisely as possible, and by doing so, to create the basis for effective therapy. About 1,000 patients are expected to be examined with the device this year.

More information at: <http://www.uniklinikum-dresden.de/presse>

### **New Lecture Series on “Systematic Musicology”**

The lecture series “Systematic Musicology: Perception and Cognition of Music”, organised by the newly-established Dresden Music Cognition Lab (DMCL) at TU Dresden, began on 28 April. In twelve independent lectures, international academics will focus on the phenomena of music and music perception based on up-to-date research issues from a variety of interdisciplinary perspectives. These range from music theory, experimental psychology and cognitive neurosciences through to evolutionary theory and computer sciences. The lecture series is aimed at a wide audience. Students at TU Dresden can earn credit points for the AQUA programme.

You can find more information at: [www.tu-dresden.de/phil/dmcl](http://www.tu-dresden.de/phil/dmcl)

### **Sound & Science: “Bohème 2020”**

Sound & Science, the series of events held jointly by Technische Universität and the Dresden Music Festival, will begin at 9 p.m. on 18 May. The topic is “Wahnsinn – eine künstlerische Auseinandersetzung”. (*Madness – an artistic debate*). “Bohème 2020” will bring together international representatives of different artistic fields in Dresden. The participants come from Germany, Switzerland, Canada, Paraguay and China. Each of the young participants will contribute their own artistic background and influences from their cultural worlds, enriching the creative exchange.



The second Sound & Science event is on June 4, when the programme will consist of a musical and scientific dialogue between Prof. Martin Rohrmeier and the violinist Florian Mayer. Both events will take place in the Andreas-Pfitzmann-Bau (Computer Science Building), at Nöthnitzer Straße 46.

Information available at: [www.musikfestspiele.com](http://www.musikfestspiele.com)

### **CRTD: New Group Leader and Award Winner**

Since April, new group leader Sebastian Zeißig has been supporting the work of the DFG Research Center for Regenerative Therapies Dresden, Cluster of Excellence at TU Dresden (CRTD).

The medical practitioner received his doctorate from the Charité in Berlin in the specialist field of gastroenterology. After holding positions at Harvard Medical School in Boston and Universität Kiel, he has now been appointed Professor of Gastroenterology at the Universitätsklinikum (*University Hospital*) Carl Gustav Carus. For his research at CRTD, he receives funding from – among others – the European Research Council (ERC Starting Grant). The new research group is investigating the immunological mechanisms of chronic inflammatory diseases of the intestine and liver with the aim of developing new therapy approaches. The neuroscientist Dr. Mike O. Karl, research group leader at the CRTD and the German Center for Neurodegenerative Diseases (DZNE), has won the EYEnovative Award for a second time. He received the award for the research project "Entwicklung zellbasierter humaner Modelle zur Erforschung retinaler Erkrankungen am Beispiel der juvenilen neuronalen Ceroid-Lipofuszinose (JNCL)" (*Development of cell-based human models to research retinal diseases based on the example of Juvenile Neuronal Ceroid Lipofuscinosis*), carried out in collaboration with Professor Alexander Storch, Professor of Neurodegenerative Diseases at the Carl Gustav Carus Medical Faculty, and Deputy Director of the Clinic and Polyclinic for Neurology. The award is endowed with 25,000 euros. <http://www.crt-dresden.de/research/crt-core-groups/zeissig.html>

### **Conferences on Neurogenesis and Regenerative Medicine**

From May 6 to May 8, neuroscientists from all over the world will come together at the DFG Research Center for Regenerative Therapies Dresden - Cluster of Excellence at TU Dresden (CRTD) to discuss current research in the field of adult neurogenesis, its evolution, regulation and function. More than 250 conference participants are expected in Dresden.

The 9<sup>th</sup> Summer Conference on Regenerative Medicine is planned for June 5 at the CRTD. About 300 visitors are expected at this event.

<http://www.abcam.com/index.html?pageconfig=resource&rid=16409>



## **Building Work Commenced for New cfaed Building**

In mid-April, the building work for new laboratories and seminar rooms of the Center for Advancing Electronics Dresden (cfaed) began. Construction work of the extension to today's South wing of the Barkhausen Building at TUD campus will last until the end of 2017. The project is led by the Saxon state company Sächsisches Immobilien- und Baumanagement (SIB) and financed with € 35 million by the Saxon State government.

The installation of highly responsive, nanoelectronic and oscillation-sensitive measuring instruments will be the particular challenge for the civil engineers. This equipment will later be operated by cfaed's metrology platform Dresden Center for Nanoanalysis (DCN).

## **cfaed at CeBit and Hanover Fair**

The Cluster of Excellence for Electronics was present at CeBit from March 16 to 20, and at the Hanover Fair from April 13 to 17. Federal Minister for Research, Johanna Wanka, and Stanislaw Tillich, Saxony's state premier, visited the CeBit booth. Cluster co-ordinator Prof. Dr.-Ing. Gerhard Fettweis showed the current demonstrator of the Collaborative Research Centre "Highly Adaptive Energy-Efficient Computing" (HAEC). At the Hanover Fair, the focus was on exhibits from the field of Organic Electronics. Dr. Martin Elstner, the new cfaed research group leader, presented the work of the "Chemical Information Processing" Group that he is in the process of setting up.

## **Further Strengthening Cluster Research Areas**

In April, cfaed was pleased to welcome another Research Group Leader. Pramod Bhatotia will establish the research group "Orchestration of Resilience Mechanisms" within the Cluster Research Areas "Resilience" and "Orchestration". The 29-year-old from India has just been awarded his doctorate this month (with the grade Summa cum laude) at the Universität des Saarlandes, where he submitted his thesis on "Incremental parallel and distributed systems". As a PhD candidate, he spent five and a half years working at the Max Planck Institute for Software Systems Kaiserslautern / Saarbrücken.

<http://cfaed.tu-dresden.de/>

Wishing you a pleasant read, and with kind regards,

Kim-Astrid Magister, Marlene Odenbach and Birgit Holthaus