



ZIHP *News*

Zurich Center for Integrative Human Physiology

6-2014 • September 2014

Lectures, posters and a lot of networking: the 10th ZIHP Symposium

Christina Giger

On 29th August 2014, the Haldeliweg building opened its doors again for the 10th symposium of the ZIHP. Lectures were given about science fraud, genetic predisposition to cardiovascular diseases and the magic force of exercise. A poster session encouraged lively discussions and awards were given to outstanding publications, presentations and posters.

Between fraud and good practice – the many shades of gray

Dr. Ton de Craen from the Department of Internal Medicine at the Leiden University Medical Center in The Netherlands started the morning session with an impressive lecture about fraud and plagiarism in science. He showed distressing cases of researchers who completely made up their data or clearly manipulated their experiments. He reported that in some years around ten percent of published papers were retracted for fraud, most of them in higher impact journals.

But besides that, de Craen also made the audience aware of the many shades of gray that exist in daily scientific practice. "Have you ever publis-



hed the successful experiments only? Or shown only the best figures as 'typical cases'?", he asked provocatively. "Is it correct that you only double-check your results when you don't like them?", was another question to the audience. "If you like the results, something may have also gone wrong, but you don't realize it because you don't check!", de Craen added for consideration.

He also showed that not only beginners cheat, it happens throughout the hierarchy: PhDs, postdocs and professors do it in like manner. At the end of his talk he strongly encouraged people who have become aware of fraud in their research groups to communicate it to persons of trust.

The rest of the session was filled with talks from young researchers within the broad network of the ZIHP. They led through topics like sleep, liver research, cancer and metabolism. This inspired the audience for discussions at the coffee break before the next keynote lecture drew their attention.

Genetics over environment? – The risks for cardiovascular diseases

Prof. Heribert Schunkert from the German Heart Center in Munich, Germany, presented how genetics could help to predict people's risk for cardiovascular diseases. Besides the known environmental risks like smoking, high fat diet, alcohol etc. mutations in genes also play an im-

portant role as risk factors for cardiovascular diseases. "It is quite easy to predict that a heavy smoker will probably suffer from one or the other disease of the heart sooner or later. But how can you predict the risk of a healthy man in ten years?", he asked.

Schunkert worked with genome wide association studies to identify different "risk regions" in the human genome and compared the results with genetic mutations in families with a high prevalence of cardiovascular diseases. He was able to identify some genes that, when mutated together, give a very high risk to be taken ill. "To get a clear picture you need to understand how and in what order the different genes interact", Schunkert argued. Finally he concluded his lecture by emphasizing that there is no competition between environmental and genetic aspects.

The morning ended with another four interesting talks from young researchers about rheumatology, exercise efficiency, brain and eye research. Enjoying a delicious lunch buffet, the symposium participants had the opportunity to discuss and network at the large poster session where mainly PhD students presented their work.

ZIHP Awards and the importance of exercise

In the afternoon the first session was dedicated to the presentation of the ZIHP Awards. Three outstanding papers emerging from ZIHP supported cooperative projects were awarded with a prize money of CHF 30'000 each. Afterwards, four more young researchers showed their work about hypoxia, gastroenterology and cardiology before the last keynote speaker was announced.

"Life is a deadly risk." These were the opening words of Prof. Bengt Kayser from the Institute of Sport Sciences at the University of Lausanne. He showed in a very impressive way how even little exercise can keep people healthy and minimize their risk for deadly diseases like myocardial infarction. In the → [Geneva stair study](#) for example, people were asked to use the stairs at their workplace instead of the elevator. After only three months they improved their body fat mass, cholesterol values and aerobic fitness. "We are forced into physical inactivity today", Kayser claimed and showed unbelievable pictures of moving staircases at inappropriate places, for example in front of a fitness center!

He also emphasized that a slim body alone is not enough. "Being fat but fit is much better than being not fat and not fit!", Kayser said with a chuckle.

Four important recommendations need to be followed in order to stay healthy: Eat five portions of fruit and vegetable, exercise and enjoy a glass of red wine every day - and don't smoke. Kayser pointed out that keeping such a lifestyle is not so difficult. "Imagine a nice bike ride, a dinner with fresh vegetables cooked in olive oil and a glass of red wine - what a life!"

As a pleasant roundup of the symposium, Marta Figueiredo from the Institute of Physiology concluded the day from her own perspective as an imMed PhD student. She pointed out how important and helpful the ZIHP and imMed network is for her work and her experience. Hoping to see you again next year at the 11th ZIHP Symposium on August 21, 2015!

→ [Photo album of the 10th ZIHP Symposium](#)

Congratulations to the awardees!

Best presentation

Laura Tüshaus, Institute of Pharmacology and Toxicology, UZH

Best posters

Damir Perisa, Institute for Clinical Chemistry, USZ

Shalmali Patkar, Institute for Veterinary Physiology, UZH

Tito Borner, Institute for Veterinary Physiology, UZH

Elisabeth Unterleutner, Department of Obstetrics and Gynecology, USZ

ZIHP Awards

Schäfer N, Lohmann C, Winnik S, van Tits LJ, Miranda MX, Vergopoulos A, Rutschitzka F, Nussberger J, Berger S, Lüscher TF, Verrey F, Matter CM: Endothelial mineralocorticoid receptor activation mediates endothelial dysfunction in diet-induced obesity. *Eur Heart J* 34(45): 3515-24, 2013

From the ZIHP cooperative project → [Pathways of aldosterone action in kidney and vasculature](#)

Goetze O, Schmitt J, Spliethoff K, Theurl I, Weiss G, Swinkels DW, Tjalsma H, Maggiorini M, Krayenbühl P, Rau M, Wojtal K, Müllhaupt B, Fried M, Gassmann M, Lutz TA, Geier A: Adaptation of iron transport and metabolism to acute high altitude hypoxia in mountaineers. *Hepatology* 58(6): 2153-62, 2013

From the ZIHP cooperative project → [Disturbed eating at high altitude](#)

Bachmann V, Klaus F, Bodenmann S, Schäfer N, Brugger P, Huber S, Berger W, Landolt HP: Functional ADA polymorphism increases sleep depth and reduces vigilant attention in humans. *Cereb Cortex* 22(4): 962-970, 2012

From the ZIHP cooperative project → [Sleep and cognition in children and adults in health and disease: a cooperative and integrative approach](#)

From theory to practice or from basic science to sports: the 9th imMed retreat

Caroline Leuenberger

On a hot summer morning mid June 2014, a group of hardly awake im-Med PhD students went on their way to spend two days high above the lake of Biel. But when they arrived by cable car in Magglingen at the Sport- und Kongresszentrum of the Swiss Federal Institute of Sports (BASPO), everybody was widely awake and excited. What a magnificent scenery of all shades of green! Now it was perfectly clear why the hotel was called "Bellavista": the view across the lake of Biel surrounded by rolling hills and the Alpes on the horizon was simply breathtaking!

The first day of the retreat was dedicated to human physiology and biomedicine. We were introduced to the world of mimivirus and its glycosyltransferases, and heard an interesting talk about the N-methyl-D-aspartate receptor during erythropoiesis with a nice insight into methodology: Pascal Hänggi explained what seems to be voodoo-science and which methods can be taken serious. Other topics were wake promotion through catecholamine-O-methyl-transferase inhibition and COPD and microRNAs.

After filling the belly with delicious food and lavishing the view, we heard that the endothelial function and HDL metabolism improved after a Roux-en-Y gastric bypass surgery in rat models of obesity – there is definitely no better topic to start the afternoon session. Afterwards, we learned more about other topics like amino acid transporters which possibly are short-term regulated by



amino acids, a zebrafish model for human kidney diseases and the anti-oxidative role of cytoglobin in podocytes as a potential association to chronic kidney disease.

After a quite strenuous hike uphill to a mountain cabin, the refreshing aperitif was ever so welcome. At the retreat award ceremony big cheers and congratulations went to the winners Daniela Spichtig (best presentation) and Nina Hochhold (best poster). The wonderfully warm summer evening was perfect for a dinner outside in the forest with a BBQ and a delicious dessert buffet. Thank you, dear fellow students who set up everything and grilled the meat! We had a wonderful evening getting to know each other, to interact and to chat about all the exciting biomedical research fields the PhD students are working in - and other things in life, of course.

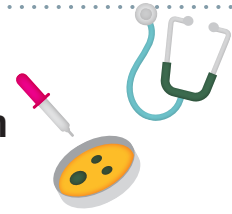
The second day was fully dedicated to team spirit, competition and sports. In teams of six students (it

should be mentioned that Prof. Thierry Hennet was also participating) we competed with one another in cherry pit spitting, producing a "Happy" choreography, answering tons of questions within 20 minutes and various races around the athletic track. All students were highly motivated to win with their team, it was a lot of fun!

After a bit of recovery time the victory ceremony took place: Gold went to the "Cherry Warriors". Congratulations again! It was a great pleasure and amusing to do something completely different together with all the imMed PhD students.

The morning ended with more outdoor activities such as beach volleyball, football or a tough lesson of body forming. The delicious lunch with a wonderful view was well deserved. Quite tired but in a merry mood we hit the train back to Zurich.

→ [Photo album of the 9th imMed Retreat](#)



Emergence of regenerative medicine from bench research to bed side therapy

Marta Figueiredo

Regenerative medicine is a biomedical field that is concerned with the replacement or regeneration of human cells, tissues or organs to restore their normal function. Imagine a world where fibrotic heart tissues and spinal cord injuries could not only be diagnosed correctly but also be treated effectively to allow patients to have a normal life. This vision is no longer a distant dream, but rather a developing reality of opportunities.

Last semester, the → **Vision 2020** organizing committee consisting of four imMed PhD students put together a stimulating and interactive seminar series on the emerging topic of regenerative medicine. The seminar speakers shared their latest results from bench research to bed side therapy. They not only illuminated the great strides the field of tissue engineering, stem cell biology and spinal cord regeneration has made in the recent past, but also offered hope for future possibilities.

Biodegradable polymers for endogenous tissue growth

Dr. Andreas Emmendorffer, vice-president and operation manager of Xeltis AG Zurich, was the first speaker of this semester's series. Xeltis AG is a spin-off of the University of Zurich, a medical device company specialized in heart valve replacement and vascular surgery. It has developed an innovative technology that has replaced the traditional porcine valves typically used in heart-valve replacement surgeries. The research team now uses a biodegradable scaffold polymer that facilitates endogenous tissue growth. This technology minimizes tissue rejection and long-term use of immune

suppressants and is already applied in pediatric heart surgery. The future challenge for this evolving technology will be to find new materials that can withstand the high pressures that prevail in the left chamber of the heart.

Multidisciplinary teams needed

The second speaker was Prof. Günter Tovar from the Institute of Interfacial Process Engineering and Plasma Technology, University of Stuttgart, Germany. He works with his multidisciplinary team on the development of novel materials that can replace the traditional heart valves and substitute endogenous blood vessels. Chemists test and select suitable scaffold polymers that allow physicists to evaluate the mechanics and polymer durability. Finally, biologists and immunologists test the usage of this novel material in various cell lines and animal models to evaluate their efficacy for clinical application.

Hope for spinal cord repair

A few weeks later, the committee invited Prof. Martin Schwab from the Brain Research Institute, University of Zurich and Department of Health Science and Technology, ETH Zurich, a well known proponent of regenerative medicine in the field of spinal cord repair. He initially discovered Nogo-A, a protein found to restrict regeneration of injured fiber tracts in the central nervous system. This discovery has stimulated research to find treatment options to rehabilitate patients with spinal cord injury. Prof. Schwab shared latest results from his team demonstrating that suppression of Nogo-A combined with treadmill training in rats

with spinal cord injury could enhance the repair and facilitate neuronal regeneration in the central nervous system. These results were also in the media in the last months. The potential of Nogo-A antibody as a therapy is currently in clinical trials.

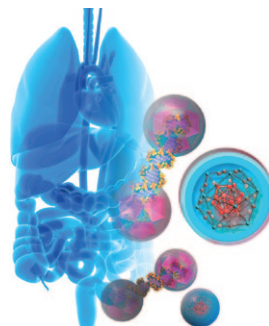
Pluripotent stem cells: limitless therapeutic opportunities?

The last speaker, Prof. Paul Fairchild from the Oxford Stem Cell Institute, UK is working at the interface between stem cell biology and immunology. Pluripotent stem cell therapy offers limitless therapeutic opportunities, but it still has to overcome an important challenge: the development of the right tissue immunogenicity to prevent rejection even though the tissue originates from the same person. Prof. Fairchild gave a clear overview of the underlying mechanism for triggering such immune reactions using in vitro and in vivo models. The research illuminated the opportunity to hijack self-destructive immune reactions giving hope for future therapy to treat cancer.

The informal discussion platform and friendly exchange of ideas from both speakers and participants gave a deep insight into the recent progress in the field of regenerative medicine. Although there are still challenges to overcome, it was encouraging to learn that regenerative medicine is not a dream anymore but already implemented in various forms of therapies.

The series is organized by a committee of → **imMed PhD students**. Next semester's topic will be → **Synthetic Biology**. Further information will follow soon.

Die Herbstausgabe von
WISSEN-SCHAFFT WISSEN



ZIHP-Mitglieder und ihre Forschungspartner präsentieren tagesaktuelle Themen aus den Bereichen Physiologie und Medizin und laden die interessierte Öffentlichkeit zur Diskussion ein.

27. Oktober 2014

→ **Frühe Geburt - späte Folgen?**

Prof. Bea Latal, Co-Leiterin der Abteilung Entwicklungspädiatrie am Kinderspital Zürich

17. November 2014

→ **Immer mehr Zappelphilippe? Ursachen und Behandlung von ADHS**

Prof. Susanne Walitza, Ärztliche Direktorin des Kinder- und Jugendpsychiatrischen Dienstes des Kantons Zürich

8. Dezember 2014

→ **Medicine goes nano: kleine Partikel ganz gross**

Prof. Beatrice Beck Schimmer, Anästhesistin am UniversitätsSpital Zürich

Montags von 18:15 - 19:45 Uhr.

Eintritt frei!

Universität Zürich Zentrum

Rämistrasse 71

Hörsaal KOL-F-101

Press review

→ **Risikoreich: Wenn müde Manager schlaftrunken entscheiden**

Schlaf ist unproduktiv. Viele Spitzenpolitiker und Manager sind deshalb der Meinung, dass man in den entsprechenden Positionen mit wenig Schlaf auskommen muss. Das Team von ZIHP-Mitglied Christian Baumann untersucht, wie sich dieser chronische Schlafmangel auf das Entscheidungsverhalten der Führungsspitze auswirkt.

Einstein, das Wissensmagazin des Schweizer Fernsehens, 4. Sept. 2014

→ **ADHS-Kinder fällen aufgrund weniger differenzierter Lern-Prozesse ungünstige Entscheidungen**

Die Aufmerksamkeitsdefizit-Hyperaktivitätsstörung (ADHS) gehört zu den häufigsten psychischen Störungen in der Schulzeit. Kinder mit ADHS treffen oft ungünstigere Entscheidungen als ihre nicht betroffenen Klassenkameraden. Forscher um die ZIHP-Mitglieder Daniel Brandeis und Susanne Walitza haben herausgefunden, dass dafür unterschiedliche Lern- und Entscheidungsmechanismen verantwortlich sind.

Medienmitteilung UZH, 21. August 2014

→ **Games mit Hand und Fuss**

Wenn Kinder durch eine zerebrale Störung oder Verletzung ihre Hände und Beine kaum mehr steuern können, ist das ein schwerer Schicksalsschlag. Im Rehabilitationszentrum in Affoltern am Albis blitzt trotzdem immer wieder Freude auf. Die Kinder werden in der Therapie mit eigens entwickelten Games dazu angespornt, zu üben, zu üben und nochmals zu üben, berichtet ZIHP-Forscher Huub van Hedel.

UZH News, 17. Juli 2014

Congratulations!

ZIHP-Mitglied Prof. Dr. Lawrence Rajendran, wurde zum → **ausserordentlichen Professor ad personam für System- und Zellbiologie der Neurodegeneration** an der Universität Zürich ernannt.

ZIHP-Mitglied Prof. Dr. med. Dr. phil. Gerhard Rogler wurde zum → **ordentlichen Professor ad personam für Gastroenterologie und Hepatologie** an der Universität Zürich ernannt.

→ **Rasch zurück auf den Rasen nach einer Gehirnerschütterung**

Nach einer Gehirnerschütterung sollte sich ein Fussballer zuerst ausruhen und das Training nach einem auf sich zugeschnittenen Plan steigern. Dies empfehlen Forschende um das ZIHP-Mitglied Dominik Straumann im Rahmen einer Untersuchung mit Schweizer Profi-Fussballspielern. In einem Kooperationsprojekt mit der FIFA untersuchen sie den idealen Zeitpunkt für die Rückkehr zum Spiel nach einem durch Fussball verursachten leichten Schädel-Hirn-Trauma.

Medienmitteilung UZH, 30. Juli 2014

Events

Events organized by the ZIHP

September 23, 2014 - ZIHP Lunch Seminar
→ Omics methods and technologies for basic and translational research

Prof. Dr. Ralph Schlapbach, Functional Genomics Center Zurich, UZH/ETHZ

September 26, 2014 - Wagi Seminars
→ Mass Cytometry / CyTOF - a single-cell multiparametric protein detection technology for deep-profilers

Vinko Tosevski, Flow Cytometry Facility, UZH

October 7, 2014 - ZIHP Lunch Seminar
→ Prefrontal thinning affects functional connectivity and regional homogeneity of the anterior cingulate cortex in major depressive disorder: relevance for treatment response

Dr. Simona Spinelli, Department of Psychiatry, Psychotherapy and Psychosomatics, Psychiatric University Hospital Zurich

October 21, 2014 - ZIHP Lunch Seminar
→ Erythropoietin and its non-erythroid effects: Translational aspects from mice to humans

Dr. Thomas Haider, Institute of Veterinary Physiology, UZH

November 4, 2014 - ZIHP Lunch Seminar
→ Neutrophil function in hypoxia

Dr. Sarah Walmsley, Academic Unit of Respiratory Medicine, The University of Sheffield Medical School, Sheffield, UK

November 18, 2014 - ZIHP Lunch Seminar
→ SUMOylation of LRH-1: Wrestling with atherosclerosis

Dr. Sokrates Stein, Laboratory of Integrative and Systems Physiology, EPFL, Lausanne

Other events with the involvement of ZIHP members

September 19, 2014 - PhD Thesis Defense
→ Metabolic and cell cycle regulatory networks in kidney cancer

Sabine Harlander, Institute of Physiology, UZH

September - Dezember 2014

→ Neurologie-Fortbildung

September 22, 2014 - Antrittsvorlesung
→ Pathogenesis of inflammatory dilated cardiomyopathy

PD Dr. Gabriela Kania, Center of Experimental Rheumatology, Division of Rheumatology, USZ

September 30, 2014

→ The role of lymphotoxin in inflammatory kidney diseases

Dr. Harald Seeger, Institute of Physiology, UZH

2. Oktober, 2014

→ Interdisziplinäres Minisymposium - Nephrolithiasis 2014

2. Oktober 2014

→ 6. Zürcher Symposium für Sportkardiologie

October 6, 2014

→ Targeted Genome Editing and iPSC: From Disease Modeling Towards Therapy

Prof. Dr. Toni Cathomen, Institute of Cell- and Gene Therapy, University Hospital Freiburg

October 6, 2014

→ The distal convoluted tubule: clinical implications of physiological mechanisms

Dr. Ewout Hoorn, Department of Internal Medicine – Nephrology, Erasmus Medical Center, Rotterdam, Netherlands

October 8, 2014

→ First Zurich Symposium on Angiogenesis, Inflammation, and the Neurovascular Link

8. Oktober 2014 - Antrittsvorlesung

→ Kommunikation über Risiken als vertrauensbildende Massnahme – die Sicht eines Arztes

PD Dr. Stephan Vavricka, Gastroenterologie, USZ

October 13, 2014

→ (Re)discovery of Cellular Metabolism by Mass Spectrometry

Dr. Nicola Zamboni, Institute of Molecular Systembiology, ETH Zurich

October 14, 2014

→ The MuLE lentiviral system facilitates combinatorial genetics and tumor modelling

Dr. Joachim Albers, Institute of Physiology, UZH

23. Oktober 2014

→ Interdisziplinäres Minisymposium rare diseases Morbus Fabry

October 27, 2014

→ Reprogramming of Pancreatic Exocrine Cells to Insulin-Producing Cells

Dr. Claudia Cavelti-Weder, Department of Internal Medicine, USZ

October 28, 2014

→ Expression of oncogenic Ras in Lgr5+ve stem cells elicits tumor formation

Dr. Silvana Libertini, Institute of Physiology, UZH

November 10, 2014

→ Nutrition and Neurological Diseases

PD Dr. Michael Linnebank, Department of Neurology, USZ

November 11, 2014

→ Transcription factor c-Myb-induced alterations in mammary tumors specifically prevent lung metastasis

Dr. Lucia Knopfova, Institute of Physiology, UZH

imMed PhD Program – new students

Since the last recruitment round twelve new students who were accepted to the PhD Program in Integrative Molecular Medicine (imMed) started their work here in Zurich. Welcome!

Glanzmann Martina, Center for Molecular Cardiology, USZ

Filliat Gladys, Center for Applied Biotechnology and Molecular Medicine, UZH

Huang Sheng-Fu, Institute of Veterinary Physiology, UZH

Kuo Willy, Institute of Physiology, UZH

Papageorgiou Panagiota, Division of Obstetrics, USZ

Renoux Florian, Division of Rheumatology, USZ

Ruangawasdi Nisarath, Division of Cranio-Maxillo-Facial and Oral Surgery, UZH

Schuoler Claudio, Institute of Veterinary Physiology, UZH

Smolar Jakub, Division of Urology, USZ

Villars Fabienne, Institute of Veterinary Physiology, UZH

Vohra Twinkle, Institute of Anatomy, UZH

Zarak Martina, Center for Molecular Cardiology, USZ

Recent publications

Bounoure L, Ruffoni D, Müller R, Kuhn GA, Bourgeois S, Devuyst O, Wagner CA: → **The Role of the Renal Ammonia Transporter Rhcg in Metabolic Responses to Dietary Protein.** J Am Soc Nephrol [Epub ahead of print], 2014

Brem S, Grünblatt E, Drechsler R, Riederer P, Walitza S: → **The neurobiological link between OCD and ADHD.** Atten Defic Hyperact Disord 6(3): 175-202, 2014

Burckhardt MA, Wellmann M, Fouzas S, Lapaire O, Burkhardt T, Benzing J, Bühler C, Szinnai G, Wellmann S: → **Sexual disparity of copeptin in healthy newborn infants.** J Clin Endocrinol Metab [Epub ahead of print], 2014

Devuyst O, Knoers NV, Remuzzi G, Schaefer F, Board of the Working Group for Inherited Kidney Diseases of the European Renal Association and European Dialysis and Transplant Association: → **Rare inherited kidney diseases: challenges, opportunities, and perspectives.** Lancet 383(9931): 1844-59, 2014

Grünblatt E, Hauser TU, Walitza S: → **Imaging genetics in obsessive-compulsive disorder: Linking genetic variations to alterations in neuroimaging.** Prog Neurobiol [Epub ahead of print], 2014

Hänggi P, Makhro A, Gassmann M, Schmutz M, Goede JS, Speer O, Bogdanova A: → **Red blood cells of sickle cell disease patients exhibit abnormally high abundance of N-methyl D-aspartate receptors mediating excessive calcium uptake.** Br J Haematol [Epub ahead of print], 2014

Hauser TU, Iannaccone R, Ball J, Mathys C, Brandeis D, Walitza S, Brem S: → **Role of the Medial Prefrontal Cortex in Impaired Decision Making in Juvenile Attention-Deficit/Hyperactivity Disorder.** JAMA Psychiatry [Epub ahead of print], 2014

Matyas G, Naef P, Tollens M, Oexle K: → **De novo mutation of the latency-associated peptide domain of TGFβ3 in a patient with overgrowth and Loey's-Dietz syndrome features.** Am J Med Genet A 164(8): 2141-3, 2014

Mirsaidi A, Genelin K, Vetsch JR, Stanger S, Theiss F, Lindtner RA, von Rechenberg B, Blauth M, Müller R, Kuhn GA, Hofmann Boss S, Ebner HL, Richards PJ: → **Therapeutic potential of adipose-derived stromal cells in age-related osteoporosis.** Biomaterials 35(26): 7326-35, 2014

Neidhart M, Karouzakis E, Jüngel A, Gay RE, Gay S: → **Inhibition of spermidine/spermine N1-acetyltransferase activity: a new therapeutic concept in rheumatoid arthritis.** Arthritis Rheumatol 66(7): 1723-33, 2014

Oczos J, Sutter I, Kloeckener-Gruissem B, Berger W, Riwanto M, Rentsch K, Hornemann T, von Eckardstein A, Grimm C: → **Lack of paraoxonase 1 alters phospholipid composition, but not morphology and function of the mouse retina.** Invest Ophthalmol Vis Sci 55(8): 4714-27, 2014

Olden M, Corre T, Hayward C, Toniolo D, Ulivi S, Gasparini P, Pistis G, Hwang SJ, Bergmann S, Campbell H, Cocca M, Gandin I, Girotto G, Glaudemans B, Hastie ND, Loffing J, Polasek O, Rampoldi L, Rudan I, Sala C, Traglia M, Vollenweider P, Vuckovic D, Youhanna S, Weber J, Wright AF, Kutalik Z, Bochud M, Fox CS, Devuyst O: → **Common Variants in UMOD Associate with Urinary Uromodulin Levels: A Meta-Analysis.** J Am Soc Nephrol 25(8): 1869-82, 2014

Ospelt C, Camici GG, Engler A, Kolling C, Vogetseder A, Gay RE, Michel BA, Gay S: → **Smoking induces transcription of the heat shock protein system in the joints.** Ann Rheum Dis 73(7): 1423-6, 2014

Rabolli V, Wallemme L, Lo Re S, Uwambayinema F, Palmari-Pallag M, Thomasen L, Tyteca D, Octave JN, Marbaix E, Lison D, Devuyst O, Huaux F: → **Critical role of aquaporins in IL-1β-mediated inflammation.** J Biol Chem 289(20): 13937-47, 2014

Russmann S, Niedrig DF, Budmiger M, Schmidt C, Stieger B, Hürlimann S, Kullak-Ublick GA: → **Rivaroxaban post-marketing risk of liver injury.** J Hepatol [Epub ahead of print], 2014

Samardzija M, Caprara C, Heynen SR, Willcox DeParis S, Meneau I, Traber G, Agca C, von Lintig J, Grimm C: → **A mouse model for studying cone photoreceptor pathologies.** Invest Ophthalmol Vis Sci 55(8): 5304-13, 2014

Sutter I, Park R, Othman A, Rohrer L, Hornemann T, Stoffel M, Devuyst O, von Eckardstein A: → **Apolipoprotein M modulates erythrocyte efflux and tubular reabsorption of sphingosine-1-phosphate.** J Lipid Res 55(8): 1730-1737, 2014

New open PhD position

→ **Genotype x gut microbiota interactions**

Division of Gastroenterology and Hepatology, USZ

→ **more open positions**

Imprint

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