Science Report 2012

Profil, Neuss, Germany
### Summary

<table>
<thead>
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<th>Profil Author first/last Position</th>
<th>Profil Author first/last Position and Study performed in Neuss</th>
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<td><strong>Cumulative Impact Factor</strong></td>
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<td>$\Sigma IF_{2011}: \mathbf{28,647}$</td>
<td>$\Sigma IF_{2011}: \mathbf{18,588}$</td>
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| **Scientific Publications** |                                   |                                                               |
|-----------------------------|-----------------------------------|                                                               |
| **Original Articles**       | 27                                | ($\Sigma IF_{2011}: 110,935$)                                |
| **Reviews**                 | 4                                 | ($\Sigma IF_{2011}: -$)                                      |
| **Cumulative Impact Factor**|                                   | 110,935                                                      |
| **Book Chapters**           | 1                                 |                                                               |

| **Scientific Congress Presentations** |                                   |                                                               |
|---------------------------------------|-----------------------------------|                                                               |
| **Oral Presentations**                | 31                                |                                                               |
| **Poster Presentations**              | 27                                |                                                               |

| **Advanced Training Courses**         |                                   |                                                               |
|---------------------------------------|-----------------------------------|                                                               |
| **Science Sessions**                  | 2                                 |                                                               |
| **Trainings with External Participants**| 3             |                                                               |

| **Granted Research Projects**         | 6                                 |                                                               |

| **Awards & Appointments**             | 5                                 |                                                               |
Scientific Publications

Original Articles


25. Thomas A, Heinemann L. Prediction of the risk to develop diabetes-related late complications by means of the glucose pentagon model: analysis of data from the Juvenile Diabetes Research
Foundation continuous glucose monitoring study. **J Diabetes Sci Technol** 6(3): 572-580, 2012 IF<sub>2010</sub>: -


**Reviews**

1. Heer M An analysis of the "effect of olibra: a 12-week randomized control trial and a review of earlier studies". **J Diabetes Sci Technol** 6(3): 709-11, 2012, IF<sub>2011</sub>: -


3. Heise T, Merker L, Matthaei S Insulin degludec: Ein neues, ultralangwirksames Basalinsulin **Diabetes, Stoffwechsel und Herz** 4: 231-238, 2012 IF<sub>2011</sub>: -


**Book Chapters**

Scientific Congress Presentations

Oral Presentations

5th International Conference on Advanced Technologies & Treatments for Diabetes, Barcelona, Spain, February 08 - 11, 2012

1. Benesch C Diabetes technologies – regulatory topics that need more focus in Europe: The German experience. 5th ATTD, ATTD 2012 yearbook, in press

2. Heinemann L New ways of insulin delivery. 5th ATTD, ATTD 2012 yearbook, in press

3. Heinemann L Continuous glucose monitoring: reimbursement across Europe. 5th ATTD, ATTD 2012 yearbook, in press


2nd Italian Diabetes Technology Meeting, Turin, Italy, March 03, 2012

1. Heinemann L AP@home: halftime of a European artificial pancreas project. 2nd IDTM, 2012

American Diabetes Association’s 72th Scientific Sessions, Philadelphia, PA, June 8-11, 2012


2. Heinemann L SMBG in non-insulin treated patients: pro. 72th ADA, 2012


3. Heinemann L Kontinuierliches Glukosemonitoring – In Studien und in der Praxis. 47. DDG, 2012


Experimental Biology, San Diego, CA, USA, April 21–25, 2012

1. Zwart SR, Heer M, Smith SM Urinary acid excretion can predict changes in bone metabolism during space flight. EB 2012

Grand Rounds of the Diabetes Center, Ann Arbor, MI, USA, May 15, 2012


1. Heer M Acid-base balance and the musculoskeletal system, 33rd ISGP, 2012


Practical ways to Achieve Targets in Diabetes Care, Keystone, CO, USA, July 12 – 15, 2012


8th IFAC Symposium on Biological and Medical Systems, Budapest, Hungary, August 29-31, 2012

1. Heinemann L AP@home: An European project to bring the Artificial Pancreas home. 8th BMS, 2012

48th Annual Meeting of the European Association for the Study of Diabetes (EASD), Berlin, Germany, October 01-05, 2012

1. Heinemann L Better control and availability of medical devices. IDF Europe Symposium at the 48th EASD, 2012


**12th Diabetes Technology Meeting, Bethesda, MD, USA, November 08-10, 2012**


**Congress of the Romanian Diabetes Federation, Cluj-Napoca, Romania, November 08-10, 2012**


**15th Annual CDA/CSEM Professional Conference and Annual Meeting Vancouver, BC, Canada October 10-13, 2012**

Poster Presentations

5th International Conference on Advanced Technologies & Treatments for Diabetes, Barcelona, Spain, February 08-11, 2012

1. Luijf Y, Avogaro A, Benesch C, Bruttomesso D, Cobelli C, Ellmerer M, Heinemann L, Mader J, DeVries JH, AP@home Consortium Continuous glucose monitoring accuracy assessed at home is seemingly better than when assessed at the clinical research centre. 5th ATTD, P142 ATTD 2012 yearbook, in press

2. McVey E, Sutter DE, Judge K, Dellweg S, Clair J, Kapitza C, Hirsch L, Rebrin K, Pettis RJ Intradermal pre-prandial delivery of insulin lispro provides more rapid onset and improved blood glucose excursions compared to subcutaneous delivery. 5th ATTD, P150 ATTD 2012 yearbook, in press


1. Heise T, Hövelmann U, Nosek L, Bøttcher SG, Granhall C, Haahr H Insulin degludec has a two-fold longer half-life and a more consistent pharmacokinetic profile compared with insulin glargine. BES 28 P188, 2012

Experimental Biology, San Diego, CA, USA, April 21–25, 2012


American Diabetes Association’s 72th Scientific Sessions, Philadelphia, PA, June 8-11, 2012


3. Heise T, Howey DC, Sinha VP, Choi SL, Mace KF Steady-state pharmacokinetics (PK) and glucodynamics (GD) of the novel, long-acting basal insulin LY2605541 dosed once-daily (QD) in patients with Type 2 Diabetes Mellitus (T2DM). Diabetes 61 (S1): 1000−P, 2012


48th Annual Meeting of the European Association for the Study of Diabetes (EASD), Berlin, Germany, October 01-05, 2012


12th Diabetes Technology Meeting, Bethesda, MD, USA, November 08-10, 2012


American Society of Nephrology (ASN) Kidney Week, San Diego, CA, USA October 30 – November 04, 2012

Advanced Training Courses

Science Sessions

1. 18. January 2012
   Aktuelle Entwicklungen in der kardiologischen Bildgebung
   Dr. med Jan Balzer
   Klinik für Kardiologie, Pneumologie und Angiologie, Heinrich Heine Universität Düsseldorf, Germany

2. 10. October 2012
   Pancreatic beta-cell dedifferentiation as mechanism of diabetic beta-cell failure
   Dr. Chutima Noi Talchai
   Columbia University New York, USA

Trainings with External Participants

1. Methoden in der experimentellen Ernährungsforschung
   22. – 28. February 2012
   Profil Neuss, Germany
   Masterstudiengang Humanernährung Rheinische Friedrich-Wilhelms-Universität Bonn, Germany

2. DuET 2012 Düsseldorf Education on Trials
   Profil Institut für Stoffwechselforschung GmbH Neuss, Germany
   Novo Nordisk, Region Europe A/S

3. Profil – Glucose-Clamp-Technique Introduction Course
   20. November 2011
   Dorthe Gybel Jensen, Henrik Jarlov, Shanti Cecilia Werther, Ona Kinduryte, Liliana Cristina Hansen
   Profil Institut für Stoffwechselforschung GmbH Neuss, Germany
   Novo Nordisk Bagsvaerd, Denmark
1. **AP@Home – Bringing the Artificial Pancreas Home**  
   EU Project 7th Framework Programme  (further information: [http://www.apathome.eu/](http://www.apathome.eu/))

2. **Clinical Application for Metabolic Profiling (EU-CLAMP)**  
   EU Project 7th Framework Programme  (further information: [http://www.euclamp.eu/](http://www.euclamp.eu/))

3. **MICROLOOP – Automatisierte Blutzuckerkontrolle in der klinischen Behandlung: Entwicklung eines auf der Mikrodialysetechnik basierten geschlossenen Regelkreises**  
   BMBF Project MED-327-060

4. **Untersuchung zum Knochenstoffwechsel** anhand von ISS Experimenten, ESA Bed Rest Experimenten, und MARS500 Experimenten, Rheinische Friedrich-Wilhelms-Universität Bonn, BMWi, Projektträger Raumfahrt

5. **Untersuchungen zur Auswirkung der Nährstoffzusammensetzung/-Supplementation auf den Knochen- und Kohlenhydratstoffwechsel anhand folgender Einzel-Projekte**,  
   Toulouse-MTBR-Bettruhe-Experimente PROPEI und Bone Quality, Antarktisstation Concordia Projekt MONU, ISS-Experiment Pro K, Rheinische Friedrich-Wilhelms-Universität Bonn, BMWi, Projektträger Raumfahrt

6. **Virtual Liver Network**  
   BMBF Project, terminated Sep 2012, (further information: [http://www.virtual-liver.de/](http://www.virtual-liver.de/))
Awards & Appointments

1. **Carsten Benesch’s ClampArt team and further employees of Profil**
   ClampArt is CE-marked and licensed for Use in Europe

2. **Martina Heer**
   Appointed as President of the International Society for Gravitational Physiology

3. **Lutz Heinemann**
   Artificial Pancreas Research Award of the Diabetes Technology Society

4. **Daniela Lamers**
   Jühling-Doktorandenpreis 2012 of the Anna-Wunderlich-Ernst-Jühling-Stiftung

5. **Alin Stirban**
   Board member of the Arbeitsgemeinschaft Diabetische Neuropathie der DDG
   Funder member of the Romanian Society for Diabetic Neuropathy
   Co-Editor-in Chief of the 3rd Issue of Diabet, Nutriție, Risc Cardiometabolic, the official Journal of the Romanian Diabetes Federation
   Member of the Scientific Board of the Gesellschaft für Biofaktoren e.V.