

# Curriculum Vitae - Maike Becker, Dr. rer. nat.

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Helmholtz Zentrum München,  
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Institut for Diabetes Research  
Group Immune Tolerance in Diabetes  
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## Positions

- 09/2019 – today      **Postdoctoral Scientist**  
at the Institute for Diabetes Research, Helmholtz Zentrum München  
Group Immune Tolerance in Diabetes - Prof. Dr. Carolin Daniel
- 04/2019 – today      **Project Leader for Genetic Engineering**  
at the Institute for Diabetes Research, Helmholtz Zentrum München
- 04/2016 – 08/2019      **PhD thesis**  
at the Institute for Diabetes Research, Helmholtz Zentrum München and  
Technical University Munich  
Title: 'Mechanisms of tissue-specific T cell tolerance in diabetes'  
Degree: **Dr. rer. nat.** (magna cum laude)
- 11/2015 – 03/2016      **Student assistant**  
at the Institute for Diabetes Research, Helmholtz Zentrum München  
Junior Group 'Immunological Tolerance in Type 1 Diabetes'
- 07/2014      **Student assistant**  
LMU Excellent Cluster 114: Center for Integrated Protein Science  
Munich (CIPSM)
- 05/2014 – 06/2014      **Student assistant**  
Gene Center of the Ludwig-Maximilians-University Munich

## Education

- 10/2013 – 11/2015      **Master of Science in Biochemistry** at the Ludwig-Maximilians-  
University, Munich. **Grade: 1.38**  
Focus on Biochemistry, Organic Chemistry and Immunology  
Master Thesis: 'Immune Competence of Microglia and  
Astrocytes in Health and Obesity.' **Grade 1.0**
- 09/2010 – 09/2013      **Bachelor of Science in Chemistry and Biochemistry** at the Ludwig-  
Maximilians-University, Munich. **Grade: 1.78**  
Focus on Biochemistry and Organic Chemistry  
Bachelor Thesis: 'Analysis of gene *caf1* in subtelomeric gene  
silencing in *Schizosaccharomyces pombe*.' **Grade 1.0**

## Awards and Honors

- 01/2019      **travel grant of the graduate school HELENA:** visit of the Harald von Boehmer Midwinter Conference – Advances in Immunobiology in Seefeld, Austria.
- 09/2018      **travel grant of the graduate school HELENA:** visit of the European Congress of Immunology (ECI) in Amsterdam, the Netherlands.
- 08/2017      **travel grant of the German Society of Immunology (DGfI):** visit of the Immunometabolism and Chronic Diseases (IMCD) Conference in Coral Coast, Fiji.

## Membership in Scientific Societies

- 2010 – present      Gesellschaft Deutscher Chemiker (GDCh)
- 2015 – present      Deutsche Gesellschaft für Immunologie (DGfI)

## Publications

- 08/2019      **Becker, M.**, et al. (2019). Short-term cold exposure supports human Treg induction in vivo. **Molecular Metabolism** 28:73-82. (IF: 6.2).
- 01/2018      Serr, I., ... **Becker, M.**, et al. (2018). A miRNA181a/NFAT5 axis links impaired T cell tolerance induction with autoimmune type 1 diabetes. **Science Translational Medicine** 10. (IF: 16.8).
- 11/2017      **Becker, M.**, Levings, M.K., and Daniel, C. (2017). Adipose-tissue regulatory T cells: Critical players in adipose-immune crosstalk. **Eur J Immunol** 47, 1867-1874. (IF: 4.2).
- 09/2017      Kälin, S.\*, **Becker, M.\***, et al. (2017). A Stat6/Pten Axis Links Regulatory T Cells with Adipose Tissue Function. **Cell Metabolism** 26, 475-492 e477. (IF: 18.2).

## Other scientific contributions

- 01/2019      **poster presentation**  
**Becker, M.**, Serr, I., Mengel, L., Hauner, H., Tschöp M.H., and Daniel, C. (2019) short-term cold acclimation enhances human Treg induction. Poster presented at the Harald von Boehmer Midwinter Konferenz – Advances in Immunobiology 2019 in Seefeld, Austria.
- 09/2018      **poster presentation**  
**Becker, M.**, Serr, I., Mengel, L., Hauner, H., Tschöp M.H., and Daniel, C. (2019) short-term cold acclimation enhances human Treg induction. Poster presented at the European Congress of Immunology (ECI) 2018 in Amsterdam, the Netherlands.
- 04/2018      selected for **3 minute thesis challenge at HELENA lecture series**  
Becker, M. (2018) Mechanisms of tissue-specific Treg induction. At HELENA Lecture Series, Helmholtz Zentrum München, Germany.

09/2017 **poster presentation**

**Becker, M.**, Kälin, S., Flynn, V.K., Ott, V.B., Serr, I., Scherm, M.G., Hosp, F., Yi, C.-X., Ziegler, A.-G., Bechmann, I., Mann, M., Tschöp, M.H., and Daniel, C. (2017). High-caloric feeding impairs immune homeostasis in the hypothalamus. Poster presented at 47th Annual Meeting of the German Society of Immunology (DGfI) in Erlangen, Germany.

08/2017 **poster presentation**

**Becker, M.**, Kälin, S., Flynn, V.K., Ott, V.B., Serr, I., Scherm, M.G., Hosp, F., Yi, C.-X., Ziegler, A.-G., Bechmann, I., Mann, M., Tschöp, M.H., and Daniel, C. (2017). High-caloric feeding impairs immune homeostasis in the hypothalamus. Poster presented at the Immunometabolism and Chronic Diseases Conference (IMCD) in Coral Coast, Fiji.

01/2017 **poster presentation**

Serr, I., Flynn, V.K., **Becker, M.**, Achenbach, P., Hippich, M., Sedlmeier, E.-M., Weigmann, B., Ziegler, A.-G., and Daniel, C. (2017). A miRNA181a/NFAT5 axis links T cell tolerance with autoimmune Type 1 diabetes. Poster presented at Immunology of Diabetes Society (IDS) Conference in San Francisco, USA.

09/2016 **poster presentation**

**Becker, M.**, Kälin, S., Flynn, V.K., Ott, V.B., Serr, I., Scherm, M.G., do Nascimento, L.F.R., Ziegler, A.-G., Tschöp, M.H., and Daniel, C. (2016). High-caloric feeding impairs immune homeostasis in the hypothalamus. In German Center for Diabetes Research (DZD), Summer Research School in Freising, Germany.

09/2015 **scientific abstract**

Kälin, S., Serr, I., **Becker, M.**, Tschöp, M.H., and Daniel, C. (2015). Diet composition affects hypothalamic T-cell presence. Presented at 3rd International Conference on Immunometabolism: Molecular and Cellular Immunology of Metabolism in Crete, Greece.

07/2014 **poster presentation**

**Becker, M.**, Künzel, A.F., and Carell, T. (2014). Elucidating the Interactome of Thymine-DNA Glycosylase. Presented at: Undergraduate Research Conference in Wildbad Kreuth, Germany.