

# Curriculum vitae

## PERSONAL DATA

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## EDUCATION

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2003-2005 Studies of Molecular Biology, University of Vienna  
2005-2006 BSc in Biology, Swiss Federal Institute of Technology (ETH), Zurich  
2006-2008 MSc in Biology, Swiss Federal Institute of Technology (ETH), Zurich  
(supervisor: Konrad Basler)  
2008-2009 Visiting scientist, Rockefeller University, New York  
(supervisor: Alexander Tarakhovsky)  
2010-2013 PhD studies, Research Institute of Molecular Biology (IMP), Vienna  
(supervisor: Jan-Michael Peters)  
2013 PhD in molecular biology, University of Vienna

## POSITIONS

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2014-2015 Postdoctoral fellow, Research Institute of Molecular Biology (IMP), Vienna  
(supervisor: Jan-Michael Peters)  
2016-2019 Postdoctoral fellow, Hubrecht Institute, Utrecht  
(supervisor: Hans Clevers)  
2020 Postdoctoral fellow, Princess Maxima Center (PMC), Utrecht  
(supervisor: Hans Clevers)  
2021 - Adjunct principle investigator, Research Center for Molecular Medicine of the  
Austrian Academy of Sciences (CeMM) and the Medical University of Vienna

## CONFERENCES

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July 2013 Oral presentation at “Cohesin Biology and the Cohesinopathies”, Fourth  
Informal Meeting, in Siena (Italy)  
May 2017 Poster presentation at “Advances in Stem Cells and Regenerative Medicine”,  
EMBO conference in Heidelberg (Germany)  
Sept 2018 Poster presentation at “Organoids: Modelling Organ Development and Disease  
in 3D Culture”, EMBO/EMBL Symposium in Heidelberg (Germany)  
Oct 2019 Poster presentation at “Intestinal organoids – from stem cells to metabolism  
and microbiome interactions”, Copenhagen Bioscience Conference 17  
(Denmark)

## PUBLICATIONS

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1. Schebesta A., McManus S., Salvagiotto G., Delogu A., Busslinger G.A., Busslinger, M. (2007) *Transcription factor Pax5 activates the chromatin of key genes involved in B cell signaling, adhesion, migration and immune function*. **Immunity** 27, 49-63.
2. Ladurner R, Kreidl E, Ivanov M.P., Ekker H, Idarraga-Amado M.H., Busslinger G.A., Wutz G., Cisneros D.A., Peters J.M. (2016) *Sororin actively maintains sister chromatid cohesion*. **EMBO J** 25, 635-653
3. Busslinger G.A., Stocsits R.R., van der Lelij P., Axelsson E., Tedeschi, A., Galjart N., Peters, J.-M. (2017) *Cohesin is positioned in mammalian genomes by transcription, CTCF and Wapl*. **Nature** 544, 503 -507.  
**This paper describes a breakthrough discovery in chromosome biology by demonstrating for the first time that RNA polymerase can move cohesin along the DNA to CTCF-binding sites, which are important anchor points for the formation of long-range loops that facilitate gene expression. The discovery of cohesin movement made an important contribution to our current understanding of how the genome is folded into chromatin domains.**  
This paper was highlighted in Faculty of 1000 (F1000) as well as in a News and Views article in Molecular Cell (Richterova et al., Genome organization: cohesin on the move. Mol. Cell 66, 444-445).
4. Holzmann J., Politi A.Z., Nagasaka K., Hantsche-Grininger M., Walther N., Koch B., Fuchs J., Dürnberger G., Tang W., Ladurner R., Stocsits R.R., Busslinger G.A., Novak B., Mechtler K., Davidson I.F., Ellenberg J., Peters J.M. (2019) *Absolute quantification of cohesin, CTCF and their regulators in human cells*. **Elife** 8: e46269
5. Busslinger G.A., Lissendorp F., Franken I., van Hillegersberg R., Ruurda J., Clevers H., de Maat M. (2020) *The potential and challenges of patient-derived organoids in guiding the multimodality treatment of upper gastrointestinal malignancies*. **Open Biol.** 10: 190274.
6. Beumer J., Puschhof J., Bauza-Martinez J., Martinez-Silgado A., Elmentaite R., James K.R., Ross A., Hendriks D., Artegiani B., Busslinger G.A., Ponsioen B., Andersson-Rolf A., Kretzschmar K., Geurts M.H., Bar-Ephraim Y.E., Pleguezuelos Manzano C., Post Y., van der Linden F., Lopez Iglesias C., van de Wetering W.J., van der Linden R., Peters P.J., Heck A.J.R., Goedhart J., Snippert H., Zilbauer M., Teichmann S.A., Wu W. and Clevers H. (2020) *High Resolution mRNA and Secretome Atlas of Human Enteroendocrine Cells*. **Cell** 181, 1-16
7. Busslinger G.A., Weusten B.L.A., Bogte A., Begthel H., Brosens L.A.A. and Clevers H. (2021) *Human upper gastrointestinal epithelium resolved at single-cell resolution*. **Accepted at Cell Reports**.  
**This paper systematically analyzes for the first time the human upper gastrointestinal epithelium at single-cell resolution and describes the discovery of a novel cell type within the duodenal epithelium that is uniquely found in humans.**
8. Busslinger G.A., Oka R., Weusten B.L.A., Kroon N., Begthel H., Brosens L.A.A., van Boxtel R. and Clevers H. (2021) *Cellular and Molecular characterization of Barrett's esophagus*. **Manuscript in preparation**.