

## Prof. Dr. Thomas Graf

**Department:** Virology

**CV:**

**THOMAS GRAF**

Prof. Dr.

### **Personal**

Date of birth: September 28, 1944

Place of birth: Vienna, Austria

### **Academic Education and Appointments**

#### **1951-1963**

Primary and secondary school in Caracas, Venezuela

#### **June 1969**

Ph.D. at the University of Tübingen

#### **1969 – 1971**

Research assistant at the Max Planck Institute of Virology, Tübingen.

#### **1972 – 1973**

Postdoctoral Fellow (Fellowship from the “Jane Coffin Childs Memorial Fund Research”) and Instructor, Dept. of Microbiology and Immunology, Duke University, Medical Center, Durham, N.C., U.S.A.

#### **1973 – 1978**

Group leader, Max Planck Institute of Virology, Tübingen.

#### **1978 – 1983**

Section Head and Professor, Institute of Virology, German Cancer Research Center, Heidelberg.

#### **1983 – 1998**

Programme Coordinator and Senior Scientist, European Molecular Biology Laboratory, Heidelberg.

#### **1998 – 2006**

Professor of Developmental and Molecular Biology, Albert Einstein College of Medicine, Bronx, NY 10461.

#### **2006 – 2015**

ICREA Research Professor and Programme Coordinator, Centre for Genomic Regulation, Barcelona, Spain.

## **2015 – present**

Senior Scientist, Centre for Genomic Regulation, Barcelona, Spain.

## **Publications**

**(This is not a complete list of publications, but only a selection of the major ones.)**

Stadhouders R, Filion GJ, Graf T. Transcription factors and 3D genome conformation in cell-fate decisions. *Nature*. 2019 May 16; 569(7756):345-354

Francesconi M, Di Stefano B, Berenguer C, de Andrés-Aguayo L, Plana-Carmona M, Mendez-Lago M, Guillaumet-Adkins A, Rodriguez-Esteban G, Gut M, Gut IG, Heyn H, Lehner B, Graf T. Single cell RNA-seq identifies the origins of heterogeneity in efficient cell transdifferentiation and reprogramming. *eLife*. 2019 Mar 12;8.

Sardina JL, Collombet S, Tian T, Gómez A, Di Stefano B, Berenguer C, Brumbaugh J, Stadhouders R, Segura-Morales C, Gut M, Gut IG, Heath S, Aranda S, Di Croce L, Hochedlinger K, Thieffry D and Graf T. Transcription factors drive Tet2-mediated enhancer demethylation to reprogram cell fate. *Cell Stem Cell*, 23, 1-15 (2018).

Stadhouders R, Vidal E, Serra F, Di Stefano B, Le Dily F, Quilez J, Gomez A, Collombet S, Berenguer C, Cuartero Y, Hecht J, Filion GJ, Beato M, Marti-Renom MA, Graf T. Transcription factors orchestrate dynamic interplay between genome topology and gene regulation during cell reprogramming. *Nature Genetics* 50(2):238-249 (2018).

Krijger PHL, Di Stefano B, de Wit E., Limone F, van Oevelen C, de Laat W, and Graf T. Cell-of-origin specific 3D genome structure acquired during somatic cell reprogramming. *Cell Stem Cell*, 18, 597–610 (2016).

Di Stefano B, Collombet S, Jakobsen JS, Wierer M, Lackner A, Sardina JL, Segura-Morales C, Stadhouders R, Limone F, Mann M, Porse B, Thievery D, and Graf T. C/EBPα creates elite cells for iPS cell reprogramming by

upregulating Klf4 and post-transcriptionally increasing the levels of Lsd1 and Brd4. *Nature Cell Biology*, 18(4):371-81 (2016).

Di Stefano B, Sardina JL, van Oevelen C, Collombet S, Kallin EM, Vicent GP, Lu J, Thieffry D, Beato M, and Graf T. C/EBP $\alpha$  poises B cells for rapid reprogramming into iPS cells. *Nature* 506, 235-241 (2014).

Rapino F, Robles EF, Richter-Larrea JA, Kallin EM, Martinez-Climent JA, Graf T. C/EBP $\alpha$  Induces Highly Efficient Macrophage Transdifferentiation of B Lymphoma and Leukemia Cell Lines and Impairs Their Tumorigenicity. *Cell Reports* 3, 1-11 (2013).

## **Awards**

### **1983**

Wilhelm-Warner-Foundation Award, Hamburg, Germany

### **1983**

Main Prize, German Society for Microbiology and Hygiene, Frankfurt

### **1988**

Kind-Philipp-Foundation Leukemia Research Award, Frankfurt, Germany

### **1988**

Josef-Steiner-Foundation Prize, Bern, Switzerland

### **1988**

Theodor Boveri Award, Würzburg, Germany

### **1989**

Paul Ehrlich-Ludwig Darmstädter Prize, Frankfurt