

Curriculum vitae

Name: Giulio Superti-Furga

Date of birth, nationality: 17th May, 1962, Italian

Genome: PGA-1 (www.genomaustria.at), whole personal genome, public <http://genomaustria.at/unsere-genom/#pga1>

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Current position: Scientific Director, CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria
Professor of Medical Systems Biology, Center for Physiology and Pharmacology, Medical University of Vienna

1968-1981: German School of Milan, Italy (Italian, German and Swiss High School Degrees)

1981-1986: Studies of Molecular Biology at the University of Zurich (M. Busslinger, M. Birnstiel, C. Weissmann)

1987-1991: PhD Molecular Biology University of Zurich (Research done in Zurich, at Genentech and at the IMP Vienna, M. Busslinger, D. Goeddel, M. Birnstiel)

1991-1993: Postdoctoral fellow (EMBO und EU Postdoc European Molecular Biology Laboratory (EMBL) in Heidelberg (G. Draetta, S. Courtneidge), Germany

1993-2004: Staff Scientist and Team Leader at the EMBL (Dept Heads: T. Graf, S. Cohen)

1997-2000: Guest Professor of Molecular Biology, University of Bologna, Italy

2000-2005: Founder and Scientific Director Cellzome AG and Inc, Heidelberg and Cambridge

2005- 2014: Guest Professor of Molecular Pharmacology, Medical University of Vienna

2005- pres.: Director, CeMM- Research Center for Molecular Medicine of the Austrian Academy of Sciences (140 staff, 12 faculty, yearly budget of 10 Million €)

Jan 2015: Professor of Medical Systems Biology, Medical University of Vienna

Publications (Citations: Google scholar/ISI Web of Sciences). *denote shared correspondence.

Pubmed: 166 publications, ISI web of Science as per May 17, 2015: 254 publications, 20,038 citations (without self-citations), average citation per paper: 81. H-index: 60. For Google Scholar, overall citations are 22,041 and H-index 64, i10-index 125.

The paper “Functional organization of the yeast proteome by systematic analysis of protein complexes” by Gavin, AC*, 36 authors, Superti-Furga G*. **Nature** 2002, Jan 10; 414: 141-147 (4,614/2,633 citations) is a Faculty of 1000 **ALL TIME TOP 10 papers in biology**.

Ten key papers last ten years

1. Proteome survey reveals modularity of the yeast cell machinery. Gavin AC, 24 more authors, Russell RB*, Superti-Furga G*. **Nature** 2006 440(7084):631-6. *Cited 2052/1437 times*.
2. An orthogonal proteomic-genomic screen identifies AIM2 as a cytoplasmic DNA sensor for the inflammasome. Bürckstümmer T, 9 more authors, Superti-Furga G. **Nat Immunol** 2009 10(3):266-72. *Cited 577/437*.
3. IFIT1 is an antiviral protein that recognizes 5'-triphosphate RNA. Pichlmair A, Lassnig C, Eberle CA, Gorna MW, Baumann CL, Burkard TR, Burckstummer T, Stefanovic A, Krieger S, Bennett KL, Rulicke T, Weber F, Colinge J, Muller M, Superti-Furga G. **Nat Immunol**. 2011;12(7):624-630. *Cited 165/122*.
4. Targeting the SH2-kinase interface in Bcr-Abl inhibits leukemogenesis. Grebien F, Hantschel O*, Wojcik J, Kaupe I, Kovacic B, Wyrzucki AM, Gish GD, Cerny-Reiter S, Koide A, Beug H, Pawson T, Valent P, Koide S, Superti-Furga G*. **Cell** 2011 Oct 14;147(2):306-19. *Cited 57/45*.
5. Viral immune modulators perturb the human molecular network by common and unique strategies. Pichlmair A, 21 more authors, Superti-Furga G. **Nature** 2012 Jul 26;487(7408):486-90. *Cited 74/53*.
6. Structural basis for 5'-triphosphate viral RNA recognition by human IFIT proteins. Abbas YM, Pichlmair A, Gónna MW, Superti-Furga G*, Nagar B*. **Nature** 2013 Feb 7;494(7435):60-4. *Cited 53/37*.
7. Stereospecific targeting of MTH1 by (S)-crizotinib as an anticancer strategy. Huber KV, Salah E, Radic B, Gridling M, Elkins JM, Stukalov A, Jemth AS, Göktürk C, Sanjiv K, Strömberg K, Pham T, Berglund UW, Colinge J, Bennett KL, Loizou JI, Helleday T, Knapp S, Superti-Furga G. **Nature** 2014 Apr 10;508(7495):222-7. *Cited 33/23*.
8. The solute carrier SLC35F2 enables YM155-mediated DNA damage toxicity. Winter GE, Radic B, Mayor-Ruiz C, Blomen VA, Trefzer C, Kandasamy RK, Huber KV, Gridling M, Chen D, Klampfl T, Kralovics R, Kubicek S, Fernandez-Capetillo O, Brummelkamp TR, Superti-Furga G. **Nat Chem Biol**. 2014 Sep;10(9):768-73. *Cited 8/5*.
9. SLC38A9 is a component of the lysosomal amino acid sensing machinery that controls mTORC1. Rebsamen M, 18 more authors, Superti-Furga G. **Nature** 2015 Mar 26;519(7544):477-81. *Cited 9/2*.
10. A conserved circular network of coregulated lipids modulates innate immune responses. Köberlin MS, Snijder B, Heinz LX, Baumann CL, Fauster A, Vladimer GI, Gavin AC, Superti-Furga G. **Cell**, in press. June 2015.

Honours and Awards

Faculty of 1000, *member* (2004-2010); EMBO, *member* (since 2005); Austrian Academy of Sciences, *corresponding member* (since 2007); Germany National Academy of Science Leopoldina, *member* (since 2008); Dance your PhD Contest, *Science Magazine, winner professor category* (2008); Order of Merit of the Republic of Italy, *Knight Officer* (2009); Karl Landsteiner Prize by the Austrian Society of Allergology and Immunology (since 2009); ERC Advanced Investigator Grant (2009); Austrian Academy of Sciences, *full member* (since 2010); Science Prize of the City of Vienna (2011); Austria's Scientist of the Year (2011); European Academy of Cancer Studies, *member* (2012); Board of the University of Vienna, *elected member* (2013-2014); Academia Europaea, *member* (since 2014).

CeMM directorship

The major "community" achievement in the last 10 years certainly is the leadership of the Research Center for Molecular Medicine of the Austrian Academy of Sciences (www.cemm.at), 140 people, 10 M € per year, attempting a new integrative research paradigm on medically-relevant basic research within a large hospital campus. It has been voted best place to work in academia in Europe in 2012 (The Scientist) and has an average IF/paper >10. It follows a new super-cooperative paradigm (M. Nowak), with PIs collaborating, judging by an unbiased bibliometric analysis, three times more than comparable institutes both in terms of number of collaborative papers and numbers of PIs with whom collaborations are engaged. Importantly, its dialogue with society on genomics, new therapeutics and precision medicine, has a broader cultural impact. Postdocs and PIs leaving the institute assume attractive positions in leading institutions (EPFL, MPI, University of Oxford).

Translational impact

> 15 patents. Three companies Cellzome (founded 2000, now GSK), Haplogen (2010) Haplogen Genomics (spin off of Haplogen, now Horizon Genomics). Implemented CeMM commercialization guidelines, incentive programs and review panels. Won GSK Fast Track Challenge Award with MTH1 project in 2014.

Boards (selection)

Member of the Board of the University of Vienna (Universitätsrat 2013-2015); Chair of EMBL Alumni Association; Member of the Board of Haplogen GmbH (biotech company); SAB Institute for Research in Biomedicine (IRB Barcelona); SAB HSR San Raffaele (Milan); Chemical Biology Consortium Sweden (Stockholm); John Kendrew Award of the EMBL Alumni Association; Ignaz L. Lieben Prize Committee; Erwin Schrödinger Prize Committee; Evaluation Board Chair VIB Ghent (2015), VIB Member of the Institutional Evaluation Board, Ghent January 2016, Personal Genome Austria (Genom Austria).

Past Responsibilities and Board Memberships

IARC (International Agency for Cancer Research, Lyon, France; until 2013); Virtual Liver Network (largest Systems Biology in Europe, German Ministry, until 2013); Standing Technical Evaluation Committee of Lombardy Region for Research Funds (until 2010); Member of the Harvard Armenise Foundation Fellowship Committee (until 2012); Cellzome Inc. (Heidelberg and Cambridge, until 2012);

Chair of the Committees awarding the FEBS Letters Young Group Leader Prize (until 2011) ; Helmholtz Alliance on Systems Biology (Germany, until 2010); AB Expert Proteomics Panel Roche (until 2010); Evaluation Board Chair VIB Ghent (2010); Member of the reviewing board of the European Bioinformatics Institute Services (March 2015).

Community work

Co-founder of EU-LIFE (www.eu-life.eu), a new network of leading European research centres to foster excellence, share knowledge, and influence policies in life sciences. Promoter and Steering Committee Member of the citizen science project “Genom Austria” (www.genomautria.at), under the patronage of Mrs M. Fischer, wife of the President of Austria. First open access Austrian genome under PGA-1 (Personal genome Austria-1). Gender Mainstreaming and career mentoring: 40% women in hiring committees. 40% women invited for interviews in last three Principal Investigator hiring rounds. At CeMM, 4 group leaders women out of 12. Speaker on > 10 career and gender workshops and meetings. Most recent: Speaker at Life Science Career Day, speaker, U. of Lausanne/EPFL Lausanne, May 9 2015. Sponsor of early career stage scientists: Chair FEBS Letters Young Investigator Award (2005-2009). Chair EMBL John Kendrew Young Scientist Award (since 2009). Organized EMBAnniversary conference and event to celebrate 50 years EMBO/40 years EMBL and highlight the impact of molecular biology on Austria, to create community and political awareness. As chair of the EMBL alumni board launched the EMBL archive, the first community-wide molecular biology archive.

Art and Science

Organized giant art glass facade for building from Artist Peter Kogler to engage society, through a capillary sponsoring system; edited magazine issue “Wien Live” on Art and Science (February 2011); conceived and executed CeMM Brain Lounge, a think room dedicated to ideas, with revolving seating carousel and contributions by 14 contemporary Austrian artists inaugurated November 2012 during Vienna Art Week with a theatre performance. Co-conceived the CeMM Time Capsule, an oval meditation room by conceptual artist Martin Walde with 13.000 coloured books with 1.800.000 unwritten pages for free contributions, has been inaugurated June 2015.