Academic Status

Andreas G. Ladurner (PhD Chemistry, Cambridge University, UK, 2000)

Principal Investigator, Senior Group Leader, EMBL Heidelberg
Genome Biology Unit, Structural & Computational Biology Unit
Meyerhofstrasse 1, 69117 Heidelberg, Germany

email: *ladurner@embl.de*
Tel: +49 6221 387156 Date of Birth: 24 June 1971
Fax: +49 6221 387518 Nationality: Italian

Education

1998 – 2002	**Wellcome Trust International Prize - Research Associate** Howard Hughes Medical Institute, UC Berkeley, USA Principal Investigator: Professor **Robert Tjian**
1994 – 2000	**PhD** in Chemistry, **University of Cambridge**, United Kingdom Mentor: Professor **Sir Alan Fersht**, FRS
1990 – 1994	**BSc** Biochemistry (Honours) – First class, **University of York**, UK Mentors: Professors A.J. Wilkinson and Guy Dodson
1995	Boehringer Ingelheim Fonds (BIF), Predoctoral Stipend
1994	Medical Research Council, Predoctoral Stipend
1994	Herchel Smith Foundation, Cambridge University, Predoc Stipend

Management Experience and Professional Qualifications

2009 – 2013	**Coordinator***,* EU Marie Curie Network *Nucleosome4D* (22 labs)
2006 – 2010	**Coordinator***,* Marie Curie Network *Chromatin Plasticity* (13 labs)
2006 – 2010	**Coordinator***,* Human Frontier Science Program, *Program Grant*
2003 – 2012	**Principal Investigator, Senior Group Leader**, **EMBL** May 2008: Successful Scientific Review and Contract Extension
2002 – 2003	***Nature Structural & Molecular Biology***, **Editor** *Nature* Publishing Group, New York, USA
2000 – 2002	**Howard Hughes Medical Institute, UC Berkeley**, Associate
1992 – 1993	Department of Biotechnology, Research Scientist **Glaxo SmithKline Pharmaceuticals**, Great Burgh, UK

Research

Ongoing research in the Ladurner team

- Pioneering research on **nuclear ADP-ribosylation** and the role of **metabolites in gene regulation**, chromatin structure and epigenetics (*Nature Struct. Mol. Biol.*, 2009; *PNAS*, 2009a; *EMBO Journal*, 2005; *Nature Struct. Mol. Biol*, 2005; others);
- Regulation of the **RNAi component *Argonaute*** (*Nature Struct. Mol. Biol*, 2007);
- Links between histone modifications, **epigenetics** & **cancer** (*Oncogene*, 2009);
- Structure/function of **histone chaperones** & **chromatin remodelers** (*PNAS*, 2008);
- Development of molecular, **imaging & chemical biology tools** (*PNAS*, 2009b).

Past research & major accomplishments of Andreas Ladurner

- Discovery of the **1st domain that interpret histone marks** (*Science,* 2000; *Mol Cell*, 2003). Such mechanisms form the molecular basis for epigenetic recognition.
- Biochemical purification of the human *Mediator* complex (*Nature*, 1999).
- Structure of transcriptional co-regulators by electron microscopy (*Science*, 1999).
- Protein folding & misfolding (*PNAS*, 1999; *Nature Structural Biology*, 1998; *others*)

Our philosophy: Innovation, interdisciplinarity and collaboration
Since establishing our group in 2003, my approach has been to take advantage of a powerful combination of reductionist and global-systems approaches to identify new forms of regulation in gene expression and epigenetics. My team routinely uses an **unusually wide repertoire of approaches** in our projects, including **biophysics**, biochemistry, molecular biology, X-ray **crystallography**, **cell biology** (confocal, time-lapse imaging), **genomics** (ChIP/RNA-seq), yeast-, *Drosophila*-, mouse **model organisms**, protein **engineering**, enzymology, **chemical biology** and **neurobiology**.

We believe that biology is innovated best by combining established and state-of-the-art approaches. Our team's approach is ideally suited to organizations that encourage and reward **open-door, collaborative research & training environments. My team will contribute to a culture of** top-down *and* bottom-up **collaborations**, in order to allow our team *and* our colleagues to profit from the complementary expertise to answer outstanding and challenging fundamental questions of biology.

We will continue to lead and take the initiative to establish further **collaborative research and training projects**, including novel Graduate Schools, funded by the BMBF, HFSP, the VW Foundation and the European Commission.

Published, past research collaborations

- Andreas Mayer, University of Lausanne, Lausanne, Switzerland
  Discovery of eukaryotic enzyme generating metabolite polyP (*Science*, 2009);
- Manuel Serrano, Spanish National Cancer Research Centre, Madrid, Spain
  Histone variants, proliferation and cellular senescence (*Oncogene*, 2009);
- Robin Allshire, Wellcome Trust Centre for Cell Biology, Edinburgh, UK
  Chromosome segregation role for the FACT complex (*Current Biology,* 2007)
- Xuan Liu, University of California at Riverside, USA
  An acetylation switch in p53 function (*Molecular Cell,* 2007)
- Peter Warburton, Mount Sinai School of Medicine, New York, NY, USA
  Human centromere mapping by ChIP-chip technology (*Genome Biology*, 2007)

Ongoing research collaborations

- Imre Berger, EMBL Grenoble Outstation, France (TFIID structure/function)
- Joan and Ron Conaway, Stowers Institute, Kansas City, USA (Alc1 remodeler)
- Daniela Corda, Maria di Girolamo, Consorzio Mario Negri Sud, Italy (PARPs)
- Luciano di Croce, Center for Genomic Regulation, Barcelona, Spain (PHD domains)
- Ann Ehrenhofer-Murray, University of Duisburg-Essen, Germany (Sir complex)
- Eileen Furlong, EMBL Heidelberg, Germany (ChIP-seq computational analysis)
- Susan Gasser, Friedrich Miescher Institut, Basel, Switzerland (Sir complex)
- Michael Hottiger, University of Zurich, Zurich, Switzerland (PARPs)
- Peter Lichter, German Cancer Research Centre (DKFZ), Heidelberg (cancer)
- Bernhard Lüscher, RWTH University of Aachen, Aachen, Germany (PARP10)
- Giacchino Natoli, European Institute for Oncology, Italy (macro-PARPs)
- Nadia Rosenthal, EMBL Mouse Biology Unit, Italy (conditional macroH2A KOs)
- Vittorio Sartorelli, National Institutes of Health, Bethesda, MD, USA (sirtuins)
- Herwig Schuler, SGC, Karolinska Institutet, Stockholm, Sweden (macro structures)
- Marcus Frohme, Technische Fachhochschule Wildau, Wildau (extremophiles)
- Markus Ralser, Max Planck Institute for Molecular Genetics, Berlin-Dahlem
- Phil Selenko, Leibniz Institute of Molecular Pharmacology, Berlin (*in vivo* NMR)

Publications

2009

Gyula Timinszky*, Paul O. Hassa*, Susanne Till*, Michael Hothorn, Georg Kustatscher, Julien Colombelli, Matthias Altmeyer, Ernst H. K. Stelzer, Michael O. Hottiger and Andreas G. Ladurner (**2009**). A macrodomain-containing histone rearranges chromatin upon sensing PARP1 activation. ***Nature Structural & Molecular Biology***, **16**, 923-929.

Aaron Gottschalk, Gyula Timinszky, S.E. Kong, S.K. Swanson, M.P. Washburn, L. Florens, Andreas G. Ladurner[#], Joan W. Conaway and Ron Conaway[#] (**2009**). Poly-ADP-ribosylation directs recruitment and activation of an ATP-dependent chromatin remodeler. ***Proc. Natl. Acad. Sci. USA***, **106**, 13770-13774. [#]*Co-corresponding PI.*

- These two articles were the subject of a *News & Views* article by Henning Kleine and Bernhard Lüscher in the 02 October 2009 issue of *Cell.*
- These two articles were the subject of a *News & Views* article by Lee Kraus in the September 2009 issue of *Nature Structure & Molecular Biology*.

Andreas G. Ladurner (**2009**). Chromatin places metabolism center stage. ***Cell***, **138**, 18-20.

Judith Sporn, Georg Kustatcher, Thorsten Hothorn, Manuel Collado, Manuel Serrano, Thomas Muley, Philipp Schnabel & Andreas G. Ladurner (**2009**). Histone macroH2A isoforms predict the risk of lung cancer recurrence. ***Oncogene***, **28**, 3423-3428.

Michael Hothorn, Heinz Neumann, Esther Lenherr, Mark Wehner, Vladimir Rybin, Paul Hassa, Andreas Uttenweiler, Monique Reinhardt, Andrea Schmidt, Jeanette Seiler, Andreas G. Ladurner, Christian Herrmann, Klaus Scheffzek & Andreas Mayer (**2009**). Catalytic core of a membrane-associated eukaryotic polyphosphate polymerase. ***Science,*** **324**, 513-516.

Nadia Dani, Annalisa Stilla, Adriano Marchegiani, Antonio Tamburro, Susanne Till, Andreas G. Ladurner, Daniel Corda & Mariella di Girolamo (**2009**). Combining affinity purification by ADP-ribose-binding macro-domains with mass spectrometry to identify the mammalian ADP-ribosyl proteome. ***Proc. Natl. Acad. Sci. USA,*** **106**, 4243-4248.

Wei-Hua Wu, Chwen-Huey Wu, Andreas G. Ladurner, Gaku Mizuguchi, , Debbie Wei, Hua Xiao, Ed Luk, Anand Ranjan & Carl Wu (**2009**). N-terminus of Swr1 binds to histone H2AZ and provides a platform for subunit assembly in the chromatin remodeling complex. ***Journal of Biological Chemistry,*** **284**, 6200-6207.

Susanne Till & Andreas G. Ladurner (**2009**). Sensing NAD metabolites through *macro* domains. ***Frontiers in Bioscience***, **14**, 3246-3258.

2008

Ingrid Grummt & Andreas G. Ladurner (**2008**). A metabolic throttle regulates the epigenetic state of rDNA. ***Cell***, **133**, 577-580.

Susanne Till, Konstantina Diamantara & Andreas G. Ladurner (**2008**). PARP: a transferase by any other name. ***Nature Structural & Molecular Biology***, **15**, 1243-1244.

Tobias Stuwe*, Michael Hothorn*, Erwan Lejeune, Vladimir Rybin, Miriam Bortfeld, Klaus Scheffzek & Andreas G. Ladurner (**2008**). The FACT Spt16 "peptidase" is a histone H3-H4 binding module. ***Proc. Natl. Acad. Sci. USA***, **105**, 8884-8889.

Gyula Timinszky, Miram Bortfeld & Andreas G. Ladurner (**2008**). Repression of RNA Polymerase II transcription by a *Drosophila* oligopeptide. ***PLoS ONE,*** **3**, e2506.

2007

Susanne Till & Andreas G. Ladurner (**2007**). RNA Pol IV plays catch with Argonaute 4. ***Cell***, **131**, 643-645.

Georg Kustatcher & Andreas G. Ladurner (**2007**). Modular paths to 'decoding' and 'wiping' histone lysine methylation. ***Current Opinion Chemical Biology***, **11**, 628-635.

Erwan Lejeune, Miriam Bortfeld, Sharon. A. White, Alison L. Pidoux, Karl Ekwall, Robin C. Allshire & Andreas G. Ladurner (**2007**). The chromatin-remodeling factor FACT contributes to centromeric heterochromatin independently of RNAi. ***Current Biology***, **17**, 1219-1224.

Alicia Alonso, Björn Fritz, Dan Hasson, Gyeorgy Abrusan, Fanny Cheung, Kinya Yoda, Bernhard Radlwimmer, Andreas G. Ladurner & Peter E. Warburton (**2007**). Co-localization of CENP-C and CENP-H to discontinuous domains of CENP-A chromatin at human neocentromeres. ***Genome Biology***, 8, R148.

Susanne Till, Erwan Lejeune, Rolf Thermann, Miriam Bortfeld, Michael Hothorn, Daniel Enderle, Matthias W. Hentze & Andreas G. Ladurner (**2007**). A conserved motif in Argonaute-interacting proteins mediates functional interactions through the Argonaute PIWI domain. ***Nature Structural & Molecular Biology***, **14**, 897-903.

Andrew G. Li, Landon G. Piluso, Xin Cai, Brian J. Gadd, Andreas G. Ladurner & Xuan Liu (**2007**). An acetylation switch in p53 mediates holo-TFIID recruitment. ***Molecular Cell***, **28**, 408-421.

2006

Andreas G. Ladurner (**2006**). Rheostat control of gene expression by metabolites. ***Molecular Cell***, **24**, 1-11.

2005

Georg Kustatscher*, Michael Hothorn*, Celine Pugieux, Klaus Scheffzek & Andreas G. Ladurner (**2005**). Splicing regulates NAD metabolite binding to histone macroH2A isoforms. ***Nature Structural & Molecular Biology***, **12**, 624-625.

- This article was the subject of a *News & Views* feature by Cynthia Wolberger in the July 2005 issue of *Nature Structure & Molecular Biology*.

Georgios I. Karras*, Georg Kustatscher*, Heeran R. Buhecha, Mark D. Allen, Celine Pugieux, Fiona Sait, Mark Bycroft & Andreas G. Ladurner (**2005**). The *macro* domain is an ADP-ribose binding module. ***EMBO Journal***, **24**, 1911-1920.

Erwan Lejeune & Andreas G. Ladurner (**2005**). Hitting transcription in all the right places. ***Nature Structural & Molecular Biology***, **12**, 390-392.

2004

Erwan Lejeune & Andreas G. Ladurner (**2004**). Analysing gene expression. ***Protein Science***, **13**, 1950-1952.

2003

Ambra Bianco and Andreas G. Ladurner (**2003**). The meaning (of structure) in life. ***Cell***, **115**, 1-2.

Andreas G. Ladurner (**2003**). Inactivating chromosomes: A *macro* domain that minimizes transcription. ***Molecular Cell***, **12**, 1-4.

Manuscripts below from postdoctoral period with Bob Tjian

Andreas G. Ladurner, Carla Inouye, Rajan Jain & Robert Tjian (**2003**). Bromodomains mediate an acetyl-histone encoded antisilencing function at heterochromatin boundaries. ***Molecular Cell***, **11**, 365-376.

Andreas G. Ladurner (**2003**). Tick-tock goes the acetylation clock. ***Nature Structural Biology***, **10**, 107.

Andreas G. Ladurner (**2003**). From an armadillo to electricity. ***Nature Structural Biology***, **10**, 12.

Manuel Morillas, Colin E. McVey, Jim A. Brannigan, Andreas G. Ladurner, Larry J. Forney & Richard Virden (**2003**). Mutations of penicillin acylase residue B71 extend substrate specificity by decreasing steric constraints for substrate binding. ***Biochemical Journal***, **371**, 143-150.

2002

Andreas G. Ladurner (**2002**). A RADial way to anneal DNA. ***Nature Reviews Molecular Cell Biology***, **3**, 806.

Andreas G. Ladurner (**2002**). Sabotage through structural mimicry. ***Nature Structural Biology***, **9**, 899.

Andreas G. Ladurner (**2002**). The origin of silence. ***Nature Structural Biol.***, **9**, 718.

Patricia Meurer-Grob, Andreas G. Ladurner, Carla Inouye, Robert Tjian & Eva Nogales (**2002**). Structural study of Sp1 transcription activation mechanism. ***Biophysical Journal***, **82**, 567.

2001

Robert Tjian, Bryan Lemon, Andreas G. Ladurner, *et al.* (**2001**). Dissecting the macromolecular machine that decodes the metazoan genome. ***FASEB Journal***, **15**, A504.

2000

Ray H. Jacobson, Andreas G. Ladurner, David King & Robert Tjian (**2000**). Structure and function of a human $TAF_{II}250$ double bromodomain module. ***Science***, **288**, 1422-1425.

- The article above was the subject of an *Editorial Special Feature* in the May 26th issue of *Science* (2000).

1999

Frank Andel, Andreas G. Ladurner, Carla Inouye, Robert Tjian & Eva Nogales (**1999**). Three-dimensional structure of the human TFIID-IIA-IIB complex. ***Science***, **286**, 2153-2156.

Soojin Ryu, Sharleen Zhou, Andreas G. Ladurner & Robert Tjian (**1999**). The transcriptional cofactor complex CRSP is required for activity of the enhancer-binding protein Sp1. ***Nature***, **397**, 446-450.

Manuscripts below with PhD supervisor Sir Alan Fersht

Andreas G. Ladurner & Alan R. Fersht (**1999**). Upper limit of the time scale for diffusion and chain collapse in chymotrypsin inhibitor 2. ***Nature Structural Biology***, **6**, 28-31.

1998

Andreas G. Ladurner, Laura S. Itzhaki, Valerie Daggett & Alan R. Fersht (**1998**). Synergy between simulation and experiment in describing the energy landscape of protein folding. ***Proc. Natl. Acad. Sci. USA***, **95**, 8473-8478.

1997

Andreas G. Ladurner, Laura S. Itzhaki & Alan R. Fersht (**1997**). Strain in the folding nucleus of chymotrypsin inhibitor 2. ***Folding & Design***, **2**, 363-368.

Andreas G. Ladurner & Alan R. Fersht (**1997**). Glutamine, alanine or glycine repeats inserted into the loop of a protein have minimal effects on stability and folding rates. ***Journal of Molecular Biology***, **273**, 330-337.

Andreas G. Ladurner, Laura S. Itzhaki, Gonzalo de Prat Gay & Alan R. Fersht (**1997**). Complementation of peptide fragments of the single domain protein chymotrypsin inhibitor-2. ***Journal of Molecular Biology***, **273**, 317-329.

José L.Neira, Laura S. Itzhaki, Andreas G. Ladurner, Benjamin Davis, Gonzalo de Prat Gay & Alan R. Fersht (**1997**). Following co-operative formation of secondary and tertiary structure in a single protein module. ***Journal of Molecular Biology***, **268**, 185-197.

Andreas G. Ladurner, Laura S. Itzhaki & Alan R. Fersht (**1997**). Strain in the transition state of folding and in the native state of proteins. ***Protein Engineering***, **10**, 29.

1996

José L. Neira, Ben Davis, Andreas G. Ladurner, Ashley M. Buckle, Gonzalo de Prat Gay & Alan R. Fersht (**1996**). Towards the complete characterisation of a protein folding pathway: The structures of the denatured, transition and native states for the association/folding of two complementary fragments of cleaved chymotrypsin inhibitor. Direct evidence for a nucleation-condensation mechanism. ***Folding & Design***, **1**, 189-208.

Shelagh Wilson, Jon K. Chambers, Janet E. Park, Andreas Ladurner, David W. Cronk, Conrad G. Chapman, Howard Kallender, Michael J. Browne, Gregory J. Murphy & Paul Young (**1996**). Agonist potency at the cloned human ß3-adrenoceptor depends on receptor expression level and nature of assay. ***Journal of Pharmacology & Experimental Therapeutics***, **279**, 214-221.

1995

Gonzalo de Prat Gay, José L. Neira, Fernando J. Corrales, Daniel E. Otzen, Andreas G. Ladurner & Alan R. Fersht (**1995**). Conformational pathway of the polypeptide chain of chymotrypsin inhibitor-2 growing from its N-terminus *in vitro*. ***Journal of Molecular Biology***, **254**, 968-979.

Janet E. Park, Jon K. Chambers, Andreas Ladurner & Shelagh Wilson (**1995**). Investigation of the differential agonist sensitivity of a cloned ß3-adrenoceptor measured in two functional assays. ***British Journal of Pharmacology***, **114**, 431P.

External Funding

EMBL provides generous core funding (€ ~3m since 2003). Our groups are normally limited to ~8 people (to maintain excellence of our PhD training program):
- Ladurner lab consumables budget: € 180,000, yearly
- Positions: self, 1 BTA, 3 students (in 9 years), 3 EMBL Interdisciplinary Postdocs

All grants below are peer-reviewed, externally funded projects in 1,000 €):

Project	Sponsor	Period	Funding	Salaries	Materials	Other
Sachbeihilfe	DFG	2010 - 2013	**165**	115	42	8
Nucleosome4D, **Coordinator**	European Union	2009 - 2013	**1,664***	638	101	925
Chromatin Plasticity, **Coordinator**	European Union	2006 - 2010	**936***	370	39	527
YIP Grant, **Coordinator**	HFSP	2006 - 2009	**400***	300	90	10
The Epigenome	European Union	2005 - 2010	**150**	135	0	15
Marie Hondele PhD project	Boehringer Ingelheim	2008 - 2011	**54**	48	0	6
Björn Fritz Postdoc project	European Union	2005 - 2006	**131**	100	9	22
Björn Fritz Postdoc project	Ernst Schering Foundation	2004 - 2005	**80**	80	0	0
Ladurner; Intl. Prize	Wellcome Trust	1999 - 2001	**215**	65	150	0
Ladurner; PhD Fellowship	Boehringer Ingelheim	1995 - 1998	**45**	41	0	4
		Total	**3,675**	1777	389	1509

Current <u>Applications</u> (Networks)	**Function**	**Sponsor**	**Period**	**Funding**
Marie Curie ITN "ADP-Ribosylation^{NET}" (*Coordinator*: Bernhard Lüscher)	Vice-Coordinator	EU	2010-2014	**700**
Marie Curie ITN "RNA-Works" (*Coordinator*: Imre Berger)	Partner	EU	2010-2014	**200**
Network of Excellence "EpiGeneSys" (*Coordinator*: Genevieve Almouzni)	Partner	EU	2010-2015	**333**

* Numbers shown represent ***personal share***, not *grant total*. The totals for the grants that I coordinate are as follows:
- EC Marie Curie Initial Training Network *Nucleosome4D*, € 4,700,000
- EC Marie Curie Research Training Network *Chromatin Plasticity*, € 3,600,000
- Human Frontiers Science Program*, Young Investigator Grant*, US$ 750,000

Teaching, Mentoring and Training Activities

Teaching Experience

- Organizer and Instructor
Spetses Summer School on Chromatin & Transcription, Greece, 2008
- Organizer and Instructor
EMBL Predoctoral Course, "Chromatin and Translation" *Module*, 2008, 2009
- Organizer and Instructor
EMBL Predoctoral Course, "Gene Expression" *Module*, 2003-2007
- Organizer and Lecturer
NAD Metabolites EuRegio Meeting, Germany, 2007
- Co-Organizer and Instructor
Computational and Statistical Aspects of Microarray Analysis, Italy, 2008
- Co-Organizer and Lecturer
FEBS Workshop on Modular Protein Domains, Austria, 2007
- Co-Organizer and Instructor
DFG Heidelberg-Munich Chromatin Summer School, Germany, 2006

Instructor at Student Symposia

- Instructor, Teacher and Mentor
- Graduate Workshop of the NoE EURASNET, Lisbon, Portugal, 2009
- BioCenter Day 2008, University of Oulu, Finland, 2008
- 6th Mini-Symposium, Leibniz Institut for Molecular Pharmacology, Berlin, 2008
- NOVUM2K Symposium, Karolinska Institutet, University of Stockholm, 2007
- Meeting of the Graduiertenkolleg 1026, University of Halle, Oppurg, 2007
- *Gulbenkian Institute PhD Programme in Bioscience,* Oeiras, Portugal, 2004

Supervision of Doctoral Candidates and Undergraduates

- Instructor and Undergraduate Student Mentor
University of Cambridge, United Kingdom, 1994-1998

- Graduated *Diploma*/Masters Students *Current Position*

Georgios Karras	(2003)	PhD with Stefan Jentsch, Max Planck Society
Constanze Heinrich	(2004)	PhD with Nancy Hines, FMI Basel
Daniel Enderle	(2005)	PhD with Renato Paro, ETH Basel
Henriette Kurth	(2006)	PhD with K. Mochizuki, IMBA Vienna

- Graduated PhD Students *Current Position*

Erwan Lejeune	(2004 – 2007)	Postdoc with Robin Allshire, Edinburgh
Georg Kustatscher	(2005 – 2008)	Postdoc with Juri Rappsilber, Edinburgh
Susanne Till	(2006 – 2009)	Staff Scientist, Baxter Pharma, Vienna

- Graduated MD Students *Current Position*

Judith Sporn	(2007 – 2008)	Senior Clinical Fellow, UC San Diego

- Postdoc Alumni *Current Position*

Björn Fritz-Wolff	(2005 - 2006)	Senior Manager, Abbott Germany
Arturo Gutierrez	(2007 - 2009)	Sr. Research Associate, Max Planck Society

- Member of 39 PhD Thesis Committees and PhD Defenses at EMBL and elsewhere.

Activities in Continuing and Advanced Training

- *Instructor*, EMBL Course on Biophysical Tools (2006-present)
- *Organizer*, EMBL Postdoc Program, Career Development Workshop (2005-present)

Selected Invited Talks at Meetings

EMBO Workshop "Chromatin dynamics in aging and disease", Garda, Italy, **2010**
Gordon Research Conference "Chromosome Dynamics", Il Ciocco, Italy, **2009**
EMBO Conference on "Chromatin and Epigenetics", Heidelberg, **2003**, **2005**, **2009**
FASEB Summer Conference on "NAD Metabolism and Signaling", Arizona, **2009**
FASEB Summer Conference "Epigenetics, Chromatin & Transcription", **2005**, **2009**
FEBS Workshop on Modular Protein Domains, Seefeld, Austria, **2005**, **2007**, **2009**
Gordon Research Conference "Chromatin Structure & Function", Italy, **2008**
Methods in Protein Structure Analysis (MPSA2008), Sapporo, Japan, **2008**
International NAD Meeting 2008, Hamburg, **2008**
Leukemia & Lymphoma Society, 2008 Stohlman Symposium, Kansas City, **2008**
Steiner Foundation Meeting "Metabolism and Cancer", Switzerland, **2006**
ASBMB Transcription Meeting, Kiawah Island, SC, **2006**
CSHL Meeting on "Transcription", Cold Spring Harbor, NY, **2001**, **2005**
International Chromosome Conference (ICC-IV), London, UK, **2004**
ICGEB Symposium on "Gene Expression and RNA Processing", Argentina, **2003**
EMBL Meeting on "Transcription", Heidelberg, **2000**, **2008**

Prizes, Memberships, Committees

Prizes and Recognition

2009 ***Schering Foundation Young Investigator Award***. Awarded every 2 years by the *Gesellschaft für Biochemie und Molekularbiologie* (GBM). 10,000 €
2009 ***Deutschlands Junge Elite***, "*40 Talente unter 40 Jahren*", Magazin "Capital"
2008 ***Outstanding Young Investigator Award*** of the *International Association for Protein Structure Analysis and Proteomics* (IAPSAP). 5,000 US$
1999 1st Prize Winner *Young Italians Abroad,* Region Trentino-Südtirol. 5,000 €
1998 *Wellcome Trust International Research Prize* (150,000 GBP for research)

Memberships

- *American Society for Biochemistry & Molecular Biology*, Member
- *Gesellschaft für Biochemie und Molekularbiologie* (GBM), Member

Committees

2003-2008 Departmental Representative to the EMBL PhD Progamme
2003-2007 EMBL Graduate Committee
2005- EMBL Postdoctoral Career Development Workshop Organizer
2006- EMBL Protein Expression and Purification Committee
2006- EMBL Monoclonal Antibody Facility,
2006- EMBL Library Committee
2007 EMBL Graduate Curriculum Working Group
2007- EMBL Faculty Search Committees (several)

Editorial Boards

2002-2003 *Nature Structural & Molecular Biology*, Editor (sabbatical)
2008- *Epigenetics & Chromatin*, Editorial Board Member

Languages

Italian (mother tongue) German (mother tongue)
English (fluent) Spanish (*Cambridge University Certificate of Proficiency*)

Referees

[*Note*: **Robert Tjian** and **Alan Fersht** are my postdoc and PhD mentor, respectively.

Joan Conaway, PhD
Investigator, Professor of Molecular Biology
The Stowers Institute for Medical Research, USA jlc@stowers.org

Sir Alan Fersht, FRS, PhD
Director, MRC Centre for Protein Engineering; Herchel Smith Professor
University of Cambridge, UK arf25@cam.ac.uk

Maria Carmo Fonseca, PhD
Executive Director, Institute of Molecular Medicine
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Peter Lichter, PhD
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Iain Mattaj, FRS, FRSE, PhD
Director General
EMBL Heidelberg mattaj@embl.de

Robert Tjian, PhD
President and CEO, Howard Hughes Medical Institute
Howard Hughes Professor of Biochemistry
University of California at Berkeley, USA jmlim@uclink4.berkeley.edu

Carl Wu, PhD
Director, Laboratory of Biochemistry
National Cancer Institute, NIH Bethesda, USA carlwu@helix.nih.gov