

## Argyris Papantonis

Prof. Dr. rer. nat.

Date of birth	22.12.1978
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Current Position	Professor for Translational Epigenetics (W2)

### University Education

1997 - 2001	Diploma in Biology, National and Kapodistrian University of Athens (GR)
2002 - 2008	PhD thesis, National and Kapodistrian University of Athens (GR)

### Professional Experience

2008 - 2013	Postdoctoral research associate, Sir William Dunn School of Pathology, University of Oxford (UK)
2012 - 2013	Lecturer for Biochemistry, University College Oxford (UK)
2013 - 2018	Junior Research Group Leader for Chromatin Systems Biology, Center for Molecular Medicine Cologne, University of Cologne (DE)
2019 - present	Professor for Translational Epigenetics, Institute of Pathology, University Medical Center Göttingen (DE)

### Organisation / Management

2018 - present	Strategy & Science Expert for the West German Genome Center
2017 - 2019	Organizer for the following scientific meetings: <ul style="list-style-type: none"> <li>- 2017 Cologne Spring Meeting "RNA: Beyond its Genetic Code"</li> <li>- 34th Ernst Klenk Symposium "Epigenetics: Basic Principles and Clinical Applications"</li> <li>- 2018 EuroLife Winter School "Spatial Genome Organization in Homeostasis and Disease"</li> <li>- 2019 EMBO Workshop "The Genome in Three Dimensions"</li> </ul>
2019 - 2025	Co-speaker (with Stefan Mundlos) of the DFG-funded SPP2202 Research Priority Network "Spatial genome architecture in development and disease"
2019 - 2020	Member of the Review Panel "RNA, Genetics, Genomics" of the ANR (FR)
2019 - present	MC Representative for Germany and WG4 Leader in the EU-funded International Nucleome Consortium, CA18127

### Achievements / Awards

1997	Award for 3 <sup>rd</sup> highest admission in the Faculty of Biology, National and Kapodistrian University of Athens (GR)
2002 - 2005	Full PhD Scholarship from the State Scholarship Foundation (GR)
2010 - 2012	Kemp Junior Research Fellowship for the Medical Sciences, Lincoln College Oxford (UK)
2019	EuroLife Distinguished Lecture Medal, Innsbruck Medical University (AUT)

### Honors, Editorial Positions, Memberships

Editorial Positions	Editor board member for <i>Scientific Reports</i> , <i>Frontiers in Physiology (RNA section)</i> , and <i>Frontiers in Genetics (Systems Biology section)</i>
Memberships	International Cell Senescence Association (Associate member), Steering committee of the IMPRS-GS Graduate School, University of Göttingen (DE)

## Publications

Total publications	<b>48</b> (*corresponding author)
Total citations	<b>&gt;1700</b> (Google Scholar, April 2020)
<i>h</i> -factor	<b>21</b> (Google Scholar, April 2020)

## Representative publications

1. Casa V, Gines MM, Gusmao EG, Slotman JA, Zirkel A, Josipovic N, Oole E, van Ijcken WFJ, Houtsmuller AB, **Papantonis A\***, Wendt KS\* (2020) Redundant and specific roles of cohesin STAG subunits in chromatin looping and transcription control. *Genome Research*, doi: 10.1101/gr.253211.119.
2. Weiterer SS, Meier-Soelch J, Georgomanolis T, Mizi A, Beyerlein A, Weiser H, Brant L, Mayr-Buro C, Jurida L, Beuerlein K, Müller H, Weber A, Tenekeci U, Dittrich-Breiholz O, Bartkuhn M, Nist A, Stiewe T, van Ijcken WF, Riedlinger T, Schmitz ML, **Papantonis A\***, Kracht M\* (2020) Distinct IL-1 $\alpha$ -responsive enhancers promote acute and coordinated changes in chromatin topology in a hierarchical manner. *EMBO Journal*, 39: e101533.
3. Gothe HJ, Bouwman BAM, Gusmao EG, Piccinno R, Petrosino G, Sayols S, Drechsel O, Minneker V, Josipovic N, Mizi A, Nielsen CF, Wagner EM, Takeda S, Sasanuma H, Hudson DF, Kindler T, Baranello L, Crosetto N, **Papantonis A**, Roukos V\* (2019) Spatial chromosome folding and active transcription drive DNA fragility and formation of oncogenic MLL translocations. *Molecular Cell*, 75: 267-283.
4. Frank S, Ahuja G, Bartsch D, Russ N, Yao W, Kuo JC, Derks JP, Akhade VS, Kargapolova Y, Georgomanolis T, Messling JE, Gramm M, Brant L, Rehimi R, Vargas NE, Kuroczik A, Yang TP, Sahito RGA, Franzen J, Hescheler J, Sachinidis A, Peifer M, Rada-Iglesias A, Kanduri M, Costa IG, Kanduri C, **Papantonis A**, Kurian L\* (2019) *yy1ncT* defines a class of divergently transcribed lncRNAs and safeguards the T-mediated mesodermal commitment of human PSCs. *Cell Stem Cell*, 24: 318-327.
5. Zirkel A, Nikolic M, Sofiadis K, Mallm JP, Brackley CA, Gothe H, Drechsel O, Becker C, Altmüller J, Josipovic N, Georgomanolis T, Brant L, Franzen J, Koker M, Gusmao EG, Costa IG, Ullrich RT, Wagner W, Roukos V, Nürnberg P, Marenduzzo D, Rippe K, **Papantonis A\***. (2018) HMGB2 loss upon senescence entry disrupts genomic organization and induces CTCF clustering across cell types. *Molecular Cell*, 70: 730-744.
6. Franzen J, Zirkel A, Blake J, Rath B, Benes V, **Papantonis A**, Wagner W\* (2017) Senescence-associated DNA methylation is stochastically acquired in subpopulations of mesenchymal stem cells. *Aging Cell*, 16: 183-191.
7. Brant L, Georgomanolis T, Nikolic M, Brackley CA, Kolovos P, van Ijcken W, Grosveld FG, Marenduzzo D, **Papantonis A\*** (2016) Exploiting native forces to capture chromosome conformation in mammalian cell nuclei. *Molecular Systems Biology*, 12: 891.
8. Kolovos P, Georgomanolis T, Koeflerle A, Larkin JD, Brant L, Nikolić M, Gusmao EG, Zirkel A, Knoch TA, van Ijcken WF, Cook PR, Costa IG, Grosveld FG, **Papantonis A\*** (2016) Binding of nuclear factor  $\kappa$ B to noncanonical consensus sites reveals its multimodal role during the early inflammatory response. *Genome Research*, 26: 1478-1489.
9. Caudron-Herger M, Cook PR, Rippe K, **Papantonis A\*** (2015) Dissecting the nascent human transcriptome by analysing the RNA content of transcription factories. *Nucleic Acids Research*, 43: e95.
10. Diermeier S, Kolovos P, Heizinger L, Schwartz U, Georgomanolis T, Zirkel A, Wedemann G, Grosveld F, Knoch TA, Merkl R, Cook PR, Längst G\*, **Papantonis A\*** (2014) TNF $\alpha$  signalling primes chromatin for NF- $\kappa$ B binding and induces rapid and widespread nucleosome repositioning. *Genome Biology*, 15: 536.