

Complete List of Scientific Publications – Dr. Athina Vidaki

Original Articles in Peer-Reviewed Scientific Journals

- (1) **Vidaki A**, Kayser M (2018) Recent progress, methods and perspectives in forensic epigenetics, *Forensic Science International: Genetics*, 37: 180-195. <https://doi.org/10.1016/j.fsigen.2018.08.008> IF (2017): 5.637.
- (2) **Vidaki A**, Kalamara V, Carnero-Montoro E, Spector TD, Bell JT, Kayser M (2018) Investigating the epigenetic discrimination of identical twins using buccal swabs, saliva, and cigarette butts in the forensic setting, *Genes*, 9(5): 252. <https://doi.org/10.3390/genes9050252> IF (2017): 3.191.
- (3) Ingold S, Dørum G, Hanson E, Berti A, Branicki W, Brito P, Elsmore P, Gettings KB, Giangasparo F, Gross TE, Hansen S, Hanssen EN, Kampmann ML, Kayser M, Laurent FX, Morling N, Mosquera-Miguel A, Parson W, Phillips C, Porto MJ, Pospiech E, Roeder AD, Schneider PM, Schulze Johann K, Steffen CR, Syndercombe-Court D, Trautmann M, van den Berge M, van den Gaag KJ, Vannier J, Verdoliva V, **Vidaki A**, Xavier C, Ballantyne J (2018) Body fluid identification using a targeted mRNA massively parallel sequencing approach – results of a EUROFORGEN/EDNAP collaborative exercise, *Forensic Science International: Genetics*, 34: 105-115. <https://doi.org/10.1016/j.fsigen.2018.01.002> IF (2016): 3.911.
- (4) **Vidaki A**, Kayser M (2017) From forensic epigenetics to forensic epigenomics: Broadening DNA investigative intelligence, *Genome Biology*, 18: 238. [10.1186/s13059-017-1373-1](https://doi.org/10.1186/s13059-017-1373-1) IF (2016): 11.908.
- (5) **Vidaki A**, Díez López C, Carnero-Montoro E, Ralf A, Ward K, Spector T, Bell JT, Kayser M (2017) Epigenetic discrimination of identical twins from blood under the forensic scenario, *Forensic Science International: Genetics*, 31: 67-80. <http://dx.doi.org/10.1016/j.fsigen.2017.07.014>. IF (2016): 3.911.
- (6) **Vidaki A**, Johansson C, Syndercombe Court D (2017) Differentially methylated Embryonal Fyn-associated Substrate (EFS) gene as a blood-specific epigenetic marker and its potential application in forensic casework, *Forensic Science International: Genetics*, 29: 165-173. <http://dx.doi.org/10.1016/j.fsigen.2017.04.010>. IF (2015): 4.988.
- (7) **Vidaki A**, Ballard D, Aliferi A, Miller T, Barron L, Syndercombe Court D (2017) DNA methylation-based forensic age prediction using artificial neural networks and next generation sequencing, *Forensic Science International: Genetics*, 28: 225-236. <http://dx.doi.org/10.1016/j.fsigen.2017.02.009>. IF (2015): 4.988.
- (8) Weiler NEC, Baca K, Ballard D, Balsa F, Bogus M, Borsting C, Brisighelli F, Červenáková J, Chaitanya L, Decroyer V, Desmyter S, van der Gaag KJ, Gettings K, Haas C, Heinrich J, João Anjos M, Kal A, Kayser M, Kiesler K, Kúdelová A, Mosquera A, Noel F, Parson W, Pereira V, Philips C, Schneider PM, Syndercombe-Court D, Turanska M, **Vidaki A**, Woliński P, Zatkalíková L, Sijen T (2016) A collaborative EDNAP exercise on mtDNA typing via a SNaPshot™ tool or massively parallel sequencing, *Forensic Science International: Genetics*, 26: 77-84. <http://dx.doi.org/10.1016/j.fsigen.2016.10.014>. IF (2015): 4.988.
- (9) **Vidaki A**, Giangasparo F, Syndercombe Court D (2016) Discovery of potential DNA methylation markers for forensic tissue identification using bisulfite pyrosequencing, *Electrophoresis*, 37(21): 2767-2779. <http://dx.doi.org/10.1002/elps.201600261>. IF (2015): 2.482.
- (10) Haas C, Hanson E, Banemann R, Bento AM, Berti A, Carracedo A, Courts C, De Cock G, Drobnic K, Fleming R, Franchi C, Gomes I, Hadzic G, Harbison S, Hjort B, Hollard C, Hoff-Olsen P, Keyser C, Kondili A, Maronas O, McCallum N, Miniati P, Morling N, Niederstatter H, Noel F, Parson W, Porto MJ, Roeder AD, Sauer E, Schneider PM, Shantan G, Sijen T, Syndercombe Court D, Turanska M, van den Berge M, Vennemann M, **Vidaki A**, Zatkalikova L, Ballantyne J

- (2015) RNA/DNA co-analysis from human skin and contact traces - results of a sixth collaborative EDNAP exercise. *Forensic Science International: Genetics*, 16: 139-147. <http://dx.doi.org/10.1016/j.fsigen.2015.01.002>. IF (2014): 4.604.
- (11) van den Berge M, Carracedo A, Gomes I, Graham EA, Haas C, Hjort B, Hoff-Olsen P, Maronas O, Mevag B, Morling N, Niederstatter H, Parson W, Schneider PM, Court DS, **Vidaki A**, Sijen T (2014) A collaborative European exercise on mRNA-based body fluid/skin typing and interpretation of DNA and RNA results. *Forensic Science International: Genetics*, 10: 40-48. <http://dx.doi.org/10.1016/j.fsigen.2014.01.006>. IF (2013): 3.202.
- (12) Haas C, Hanson E, Anjos MJ, Ballantyne KN, Banemann R, Bhoelai B, Borges E, Carvalho M, Courts C, De Cock G, Drobnic K, Dotsch M, Fleming R, Franchi C, Gomes I, Hadzic G, Harbison SA, Harteveld J, Hjort B, Hollard C, Hoff-Olsen P, Huls C, Keyser C, Maronas O, McCallum N, Moore D, Morling N, Niederstatter H, Noel F, Parson W, Phillips C, Popielarz C, Roeder AD, Salvaderi L, Sauer E, Schneider PM, Shanthan G, Court DS, Turanska M, van Oorschot RA, Vennemann M, **Vidaki A**, Zatkalikova L, Ballantyne J (2014) RNA/DNA co-analysis from human menstrual blood and vaginal secretion stains: Results of a fourth and fifth collaborative EDNAP exercise. *Forensic Science International: Genetics*, 8: 203-212. <http://dx.doi.org/10.1016/j.fsigen.2013.09.009>. IF (2012): 3.861.
- (13) **Vidaki A**, Daniel B, Court DS (2013) Forensic DNA methylation profiling - Potential opportunities and challenges. *Forensic Science International: Genetics*, 7: 499-507. <http://dx.doi.org/10.1016/j.fsigen.2013.05.004>. IF (2012): 3.861.
- (14) Haas C, Hanson E, Anjos MJ, Banemann R, Berti A, Borges E, Carracedo A, Carvalho M, Courts C, De Cock G, Dotsch M, Flynn S, Gomes I, Hollard C, Hjort B, Hoff-Olsen P, Hribikova K, Lindenbergh A, Ludes B, Maronas O, McCallum N, Moore D, Morling N., Niederstatter H, Noel F, Parson W, Popielarz C, Rapone C, Roeder AD, Ruiz Y, Sauer E, Schneider PM, Sijen T, Court DS, Sviezena B, Turanska M, **Vidaki A**, Zatkalikova L, Ballantyne J (2013) RNA/DNA co-analysis from human saliva and semen stains--results of a third collaborative EDNAP exercise. *Forensic Science International: Genetics*, 7: 230-239. <http://dx.doi.org/10.1016/j.fsigen.2012.10.011>. IF (2012): 3.861.
- (15) Cotta CV, Leventaki V, Atsaves V, **Vidaki A**, Schlette E, Jones D, Medeiros LJ, Rassidakis GZ (2008) The Helix-loop-helix Protein Id2 is expressed differentially and induced by Myc in T-cell Lymphomas. *Cancer*, 112: 552-561. <http://dx.doi.org/10.1002/cncr.23196>. IF (2007): 4.632.

Conference proceedings in Peer-Reviewed Journals

- (1) Cotta CV, Leventaki V, **Vidaki A**, Medeiros LJ, Rassidakis GZ (2007) Differential expression of the ID2 helix-loop-helix protein in T-cell lymphomas. *Laboratory Investigation*, 87 (1S): 238A-238A. <http://dx.doi.org/10.1038/sj.labinvest.3700576>. IF (2006): 4.453.
- (2) Leventaki V, Drakos E, Lim M, **Vidaki A**, Elenitoba-Johnson KSJ, Claret FS, Medeiros LJ, Rassidakis GZ (2007) NPM-ALK activates c-Jun N-terminal kinase (JNK) in anaplastic large cell lymphoma. *Laboratory Investigation*, 87 (1S): 250A-250A. <http://dx.doi.org/10.1038/sj.labinvest.3700576>. IF (2006): 4.453.
- (3) Cotta CV, Leventaki V, **Vidaki A**, Medeiros LJ, Rassidakis GZ (2007) Differential expression of the ID2 helix-loop-helix protein in T-cell lymphomas. *Modern Pathology*, 20 (2S): 238A-238A. <http://dx.doi.org/10.1038/sj.modpathol.3800809>. IF (2006): 3.753.
- (4) Leventaki V, Drakos E, Lim M, **Vidaki A**, Elenitoba-Johnson KSJ, Claret FS, Medeiros LJ, Rassidakis GZ (2007) NPM-ALK activates c-Jun N-terminal kinase in anaplastic large cell lymphoma. *Modern Pathology*, 20 (2S): 250A-250A. <http://dx.doi.org/10.1038/sj.modpathol.3800809>. IF (2006): 3.753.

Invited Chapter in Peer-Reviewed Book

- (1) Kovatsi L, **Vidaki A**, Fragou D, Syndercombe Court D (2015) Epigenetic 'fingerprint'. In: Tollefsbol T (ed), *Personalised Epigenetics*, Elsevier, San Diego, USA, 221-243.

Invited Presentations at Scientific Conferences, Meetings and Workshops

- (1) State-of-the-art for epigenetics in forensics, Workshop: DNA phenotyping, determination of age and tissue source, ISFG English Speaking Working Group 2018 Meeting, 13.09.2018, Saint Petersburg, Russia
- (2) From forensic epigenetics to forensic epigenomics: broadening DNA investigative intelligence, QIAGEN 7th Investigator Forum, 08.03.2018, Lisbon, Portugal
- (3) Application of the SNaPshot™ kit for multiplex DNA methylation profiling in forensics, Thermo Fisher Scientific Forensic User meeting, 38th GEDNAP Spurenworkshop (Stain Workshop), 22.02.2018, Basel, Switzerland
- (4) DNA methylation-based age prediction for forensic applications, Webinar Series: Forensic DNA: The Beginning of the SNP Era, Forensic Technology Center of Excellence in collaboration with the George Washington University, 06.12.2017, Online webinar
- (5) Predicting an individual's chronological age using DNA methylation in forensics, Workshop: Epigenetic clocks: Challenges in their development and use in predicting health risks, University of Bristol, 23.11.2017, Bristol, United Kingdom
- (6) Introduction to tissue-specific DNA methylation (lecture and hands-on demos), Workshop: Beyond DNA Profiling: On Other Forensic Questions than 'Who is it?', 27th World Congress of the International Society of Forensic Genetics, 28.08.2017, Seoul, South Korea
- (7) Prediction of age-of-donor using DNA methylation-based NGS, The 2017 Forensic Forums event, EuroSciCon, 08.03.2017, Online
- (8) Prediction of age-of-donor using DNA methylation-based NGS, CSFS Autumn Conference, 04.11.2016, Birmingham, UK
- (9) Is age 'written' in your blood? Ageing Summit 2016, EuroSciCon, 09.02.2016, London, UK
- (10) Body fluid identification at King's, Forensic Science Regulator mRNA meeting, 04.11.2015, Birmingham, UK

Invited Lectures/Seminars at Scientific Institutions

- (1) Can epigenetics solve crimes? The potential and challenges of DNA methylation profiling in forensics, ICMP-EMC DNA meeting, Erasmus MC, 02.07.2018, Rotterdam, Netherlands
- (2) Can epigenetics solve crimes? The potential and challenges of DNA methylation profiling in forensics, IMBB-FORTH seminar series, Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology, 07.06.2018, Heraklion, Greece
- (3) Epigenetics as an innovative forensic tool, 2nd Scientific Meeting of the 'Toxicology' Graduate Program, Department of Biochemistry and Biotechnology, University of Thessaly, 03-04.02.2018, Larisa, Greece
- (4) Can epigenetics solve crimes? The potential of forensic DNA methylation profiling, Subdivision of Biological and Biochemical Examinations and Analyses, Forensic Sciences Division, Hellenic Police, 03.11.2017, Athens, Greece
- (5) Epigenetic discrimination of identical twins under the forensic scenario, 27th Symposium of the Medical Genetics Center, Erasmus University Medical Center, 14.09.2017, Rotterdam, Netherlands

- (6) Forensic DNA methylation profiling - Current experiences and future expectations, Department of Forensic Medicine, Yonsei University College of Medicine, 05.09.2017, Seoul, South Korea
- (7) Forensic DNA methylation profiling – Beyond the restriction of conventional DNA analysis, ReAcTiON Chemical Students Association, Aristotle University of Thessaloniki, 28.04.2017, Thessaloniki, Greece
- (8) CSI – Can epigenetics solve crimes?, Faculty of Medicine, Aristotle University of Thessaloniki, 03.02.2017, Thessaloniki, Greece
- (9) DNA methylation-based forensic age prediction using artificial neural networks and next generation sequencing, Biological Traces Department, Netherlands Forensic Institute, 10.05.2016, The Hague, Netherlands
- (10) DNA methylation-based forensic age prediction using artificial neural networks and next generation sequencing, Analytical and Environmental Sciences Division Seminar Series, 29.10.2015, King's College London, UK

Oral Presentations at Scientific Conferences & Meetings

- (1) Maas SCE, **Vidaki A**, Wilson R, Teumer A, Liu F, Waldenberger M, Franco OH, Ghanbari M, Kayser M, Statistical model and lab tool for inferring smoking habits from blood with a finite set of DNA methylation markers, ISFG English Speaking Working Group 2018 Meeting, 14.09.2018, Saint Petersburg, Russia (*presenter*)
- (2) **Vidaki A**, Montiel D, Kayser M, Y-chromosome-based epigenetic age estimation: A novel investigative approach for male-female DNA mixtures, XI Haploid Markers 2018 Conference, 18.05.2018, Bydgoszcz, Poland
- (3) **Vidaki A**, Carnero-Montoro E, Boers RG, Boers JB, Díez López C, Kalamara P, Spector T, Gribnau J, Bell JT, Kayser M, CpGforID: Epigenetic Discrimination of identical twins under the forensic scenario, 27th World Congress of the International Society for Forensic Genetics, 31.08.2017, Seoul, South Korea
- (4) **Vidaki A**, Díez López C, Kalamara P, Carnero-Montoro E, Spector T, Bell JT, Kayser M, Epigenetic discrimination of monozygotic twins from blood and saliva in the forensic scenario, 10th Conference on Forensic and Anthropologic Genetics and Mayo Clinic Lectures in Individualized Medicine of the International Society of Applied Biological Sciences, 23.06.2017, Dubrovnik, Croatia
- (5) **Vidaki A**, Ballard D, Syndercombe Court D, EDNAP Meth-Age exercise – part 1, Biannual meeting of the European DNA Profiling Group, 26.04.2016, Warsaw, Poland
- (6) **Vidaki A**, Aliferi A, Ballard D, Barron L, Syndercombe Court D, Epigenetic-Aging-Signature – The Future? 68th Annual Scientific Meeting of the American Society of Forensic Sciences, 26.02.2016, Las Vegas, Nevada, United States
- (7) **Vidaki A**, Ballard D, Syndercombe Court D, DNA methylation-based NGS method for age prediction, Biannual meeting of the European DNA Profiling Group, 20.10.2015, Santiago de Compostela, Spain
- (8) **Vidaki A**, Ballard, D, Barron L, Syndercombe Court D, DNA methylation-based age prediction using artificial neural networks and next generation sequencing, 26th World Congress of the International Society for Forensic Genetics, 03.09.2015, Kraków, Poland (*award winning presentation*)
- (9) **Vidaki A**, mRNA- and DNA methylation-based differentiation between peripheral and menstrual blood, DNA Conference of the Chartered Society of Forensic Sciences, 29.04.2015, Birmingham, UK

- (10) Ballard D, **Vidaki A**, Syndercombe Court D, Mitochondrial variation in the UK and Ireland - Utility of NGS to increase discrimination, ISFG English Speaking Working Group 2014 Meeting, 30.05.2014, Athens, Greece (*presenter*)
- (11) **Vidaki A**, Forensic DNA methylation profiling as an innovative investigative tool, Forensic Horizons R&D Conference of the Forensic Science Society, 07.11.2013, Manchester, UK
- (12) **Vidaki A**, Miller T, Daniel B, Syndercombe Court D, DNA-based estimation of biological age using age-associated DNA methylation markers in blood, Advances in Temporal Forensic Investigations Conference, 05.11.2013, Huddersfield, UK
Vidaki A, Daniel B, Syndercombe Court D, Forensic genetic and epigenetic profiling for the identification of semen in sexual assault cases, Analytical & Environmental Research Division Annual Postgraduate Research Symposium, King's College London, 22.05.2013, London, UK (*award winning presentation*)
- (13) **Vidaki A**, Syndercombe Court D, DNA methylation-based identification of forensically related body fluids, 2nd General Assembly Meeting of the European Forensic Genetics Network of Excellence, 25.01.2013, Tenerife, Spain
- (14) **Vidaki A**, Syndercombe Court D, DNA methylation-based identification of forensically related body fluids, Inaugural Postgraduate Research Symposium of the Forensic Science Society, 10.11.2012, Coventry, UK

Co-author of additional papers (4x) orally presented by co-authors at scientific conferences

Poster Presentations at Scientific Conferences & Meetings

- (1) Díez López C, Ralf A, Montiel Gonzalez D, Radjabzadeh D, Kraaij R, Uitterlinden A, Haas C, **Vidaki A**, Lao Gueso O, Kayser M, Microbiome profiling and taxonomy-independent deep learning allow accurate identification of different forensically relevant human epithelial materials, 7th International Human Microbiome Consortium Meeting, 26-28.06.2018, Killarney, Ireland
- (2) Díez López C, Ralf A, Montiel Gonzalez D, Radjabzadeh D, Kraaij R, Uitterlinden A, Haas C, **Vidaki A**, Lao Gueso O, Kayser M, Microbiome profiling and taxonomy-independent deep learning allow accurate identification of different forensically relevant human epithelial materials, 22nd Molecular Medicine Day, Erasmus MC, 15.03.2018, Rotterdam, Netherlands
- (3) **Vidaki A**, Carnero-Montoro E, Boers RG, Boers JB, Díez López C, Kalamara P, Spector T, Gribnau J, Bell JT, Kayser M, CpGforID: Epigenetic discrimination of identical twins under the forensic scenario, Twins 2017 Congress, 16-18.11.2017, Madrid, Spain
- (4) **Vidaki A**, Díez López C, Carnero-Montoro E, Spector T, Bell JT, Kayser M, Epigenetic discrimination of monozygotic twins in the forensic scenario, Human Identification Solutions 2017 Conference, 16-17.05.2017, Vienna, Austria
- (5) **Vidaki A**, Díez López C, Carnero-Montoro E, Spector T, Bell JT, Kayser M, Epigenetic discrimination of monozygotic twins in the forensic scenario, 21st Molecular Medicine Day, Erasmus MC, 21.03.2017, Rotterdam, Netherlands
- (6) Aliferi A, Ballard D, **Vidaki A**, Barron L, Syndercombe Court D, Investigating the sensitivity of a DNA methylation-based age prediction method, 17th European Forensic DNA Working Group Meeting, 08-10.11.16, Florence, Italy
- (7) **Vidaki A**, Daniel B, Syndercombe Court D, Identification of sperm-specific DNA methylation markers using bisulfite pyrosequencing, 25th World Congress of the International Society for Forensic Genetics, 02-07.09.2013, Melbourne, Australia

- (8) **Vidaki A**, Daniel B, Syndercombe Court D, Potential age determination using age-associated DNA methylation markers in blood, 25th World Congress of the International Society for Forensic Genetics, 02-07.09.2013, Melbourne, Australia
- (9) **Vidaki A**, Syndercombe Court D, Identification of tissue-specific DNA methylation markers for use in forensic body fluid identification, Graduate School day of Blizard Institute, Barts and the London, 30.04.2012, London, UK
- (10) Leventaki V, Drakos E, Lim M, **Vidaki A**, Elenitoba-Johnson KSJ, Claret FS, Medeiros LJ, Rassidakis GZ, NPM-ALK activates c-Jun N-terminal kinase in anaplastic large cell lymphoma, 96th Annual Meeting of the United States and Canadian Academy of Pathology, 24-30.03.2007, San Diego, United States
- (11) Cotta CV, Leventaki V, **Vidaki A**, Medeiros LJ, Rassidakis GZ, Differential expression of the ID2 helix-loop-helix protein in T-cell lymphomas, 96th Annual Meeting of the United States and Canadian Academy of Pathology, 24-30.03.2007, San Diego, United States

Features in online multimedia and newspapers

- (1) OPEN Rotterdam, Article: 'Ga in science hotel aan de slag als forensisch onderzoeker' (News), 27.09.2018. Available at: <http://www.openrotterdam.nl/ga-in-science-hotel-aan-de-slag-als-forensisch-onderzoeker/nieuws/item?1101494>
- (2) AD.nl, Article: 'Dna-wetenschappers buigen zich over 'vermissing' in hotelkamer' (News), 21.09.18. Available at: <https://www.ad.nl/rotterdam/dna-wetenschappers-buigen-zich-over-vermissing-in-hotelkamer~a389b29d/>
- (3) Scanner Magazine, Interview: 'It runs in the family', feature article 'Me and my work', April 2018, https://intranet.erasmusmc.nl/165990/633839/2018/Scanner_02_-_2018.pdf?view=active (available only for Erasmus MC employees)
- (4) Erasmus University Rotterdam, Article: 'EUR Fellowship', March 2018. Available at: <https://www.eur.nl/en/about-eur/events/talent-day/talent-day-prizes/eur-fellowship>
- (5) King's College London, Press release: 'Blood spatters reveal a suspect's age through new technique' (News), 21.03.2017. Available at: <http://www.kcl.ac.uk/newsevents/news/newsrecords/2017/03-March/Blood-spatters-reveal-a-suspect-s-age-through-new-technique.aspx>
- (6) VICE Greece, Article: 'Αυτή η Ελληνίδα Ιατροδικαστής Μπορεί να Καταλάβει αν ο Δολοφόνος Ήταν Χορτοφάγος' by Κώστας Κουκουμάκας (Έγκλημα), 07.02.2017. Available at: <https://www.vice.com/gr/article/ayth-h-ellhnida-iatrodiakasths-mporei-na-katalabei-an-o-dolofonos-htan-xortofagos>.
- (7) King's College London, Article: 'Researchers present their work at international congress' (News), 09.10.2015. Available at: <http://www.kcl.ac.uk/lsm/study/departments/pharmacy-forensic/newsevents/newsrecords/2015/Researchers-present-their-work-at-international-congress.aspx>