

Curriculum Vitae Geertruij te Kronnie

Part I – General Information

Full Name	Geertruij te Kronnie
Date of Birth	November 21, 1951
Place of Birth	Amsterdam
Citizenship	Dutch
Permanent Address	Pz. Berengario 1, Pavia IT
Mobile Phone Number	+ 39 339 379 91 94 + 31 6 16 40 74 15
E-mail	truustekronnie@unipd.it truustekronnie@gmail.com
Spoken Languages	Dutch, English, Italian, German, Swedish

Part II – Education

University of Pavia, Pavia ITALY - Specialization in Medical Genetics, 2001

University of Pavia, Pavia ITALY - Master of Science in Genetic Epidemiology and Molecular Medicine, 1999

University of Lund, Lund SWEDEN - Postdoctoral research, 1984-1986

University of Amsterdam, Amsterdam, NETHERLANDS - PhD. in Mathematics and Sciences, 1982

University of Amsterdam, Amsterdam, NETHERLANDS - Master in Medical Biology, 1977

University of Amsterdam, Amsterdam, NETHERLANDS- B.A. in Biology, 1975

Part III – Appointments

Full time positions

1977-82 PhD student in the laboratory of Dr. W. van Raamsdonk, University of Amsterdam, NL

1982-83 Research assistant with Prof. P P Lambert, Queen Elizabeth Foundation, Brussels, B

1983-85 Postdoctoral research at the laboratory of Prof. KAP Edman, University of Lund, Sweden

1985-86 Research assistant at the laboratory of Dr. P. Wirtz, University of Nijmegen, NL

1986-88 Research assistant, laboratory of Prof. L. Timmermans, University of Wageningen, NL

1988-91 Fellow of the Royal Dutch Academy of Sciences, University of Wageningen, NL

1992-99 University Lecturer at the University of Wageningen

1999-2001 Researcher at the laboratory of Medical Genetics with Prof. O. Zuffardi, University of Pavia, IT

2001- 2014 Senior investigator, Head of the Genomics research Unit at the Laboratory of Leukemia Diagnosis and Research with Prof. G. Basso, University of Padova, IT

2012 Qualified for full Professorship (Abilitazione Scientifica Nazionale) in Applied Biology by the Italian Ministry of Education, Universities and Research

2014-2020 PI at the Institute of Pediatric Research (IRP) – Padova, IT and COST ACTION 16223 CG member of the MC of CA16223, leader of WG5.

Present: partime contract with the University of Padova Scientific Research Consultation and Genetic Counselling.

Part IV – Teaching experience

Courses taught

- 1999 Cell and Tissue culture techniques (12 lectures, 2 weeks laboratory exercises)
- 2003 Molecular Medicine (Introductory Course for Graduate students Medical School, Padova)
- 2004 Molecular Medicine (Introductory Course for Graduate students Medical School, Padova)
- 2005 Molecular Medicine (Introductory Course for Graduate students Medical School, Padova)
- 2006 Anatomy of the Neuromuscular interaction (Course for Specialization BTM, Padova)
- 2007 Anatomy of the Neuromuscular interaction (Course for Specialization BTM, Padova)
- 2007 Molecular Medicine (Introductory Course for Graduate students Medical School, Padova)
- 2008 Anatomy of the Neuromuscular interaction (Course for students BTM, Padova)
- 2014 Medical Genetics, undergraduate course for Radiology technicians, University of Padova
- 2014 Medical Genetics, course shared by all schools of specialization for medical doctors
- 2015 Medical Genetics, undergraduate course for Radiology technicians, University of Padova
- 2015 Medical Genetics, undergraduate course for Obstetricians, University of Padova
- 2016 Medical Genetics, undergraduate course for Obstetricians, University of Padova
- 2016-present Medical Genetics, undergraduate course Fysiotherapists, University of Padova.
- 2019-present Medical Genetics, MMED specialization course for medical doctors, Kilimanjaro Christian Medical Centre, Moshi TZ.

Supervision of students

PhD students

Benedetta Accordi

Date of Ph.D. degree: March 2006 University of Padova

Current position: Post doctoral fellow Oncohematology, Padova

Andrea Zangrando
Date of Ph.D. degree: March 2007 University of Padova
Current position: Post doctoral fellow Oncohematoly, Padova

Francesca Pistollato
Date of degree: March 2008 University of Padova
Current position: Grant reviewer for Alzheimer patient organization, Washington DC-US

Luca Trentin
Date of degree: March 2010 University of Padova
Current position: co-PI - FIRB project, Oncohematology, University of Padova

Elena Vendramini
Date of degree: March 2011 University of Padova
Currently with Prof. Shai Israeli, Dpt Hemato-Oncology at Sheba – Academic Medical Center Hospital, Tel-Aviv, Israel

Silvia Bresolin
Date of degree: March 2012 University of Padova
Currently in the laboratory with a My First AIRC grant

Chiara Borga
Title: *Mechanisms of CNS infiltration in T-cell leukemia: a molecular study of zebrafish and mouse models*
Date of degree: April 2014 University of Padova
Postdoc with Prof. Kimble Frazer, Oklahoma University, Oklahoma US

Tobia Lana
Title: *Transcription factor IKAROS: From genetics to lymphocyte development*
Date of degree: April 2016 University of Padova

Annagiulia Bonizzato
Title: *CircRNAs in normal haematopoiesis*
Date of degree: April 2017 University of Padova

Member of the Thesis Advisory Committee of the International Graduate School in Molecular Medicine, Ulm – Germany (since 2009-present)

Vera Münck
Title: *VEGF – A novel Therapeutic Target in Central Nervous System Acute Lymphoblastic Leukaemia*
Date of degree: October 2017 International Graduate School in Molecular Medicine, Ulm - G

New courses developed

Undergraduate level course 'Cell and Tissue culture techniques' (Animal Science special course for BA students), University of Wageningen, 1995

Master level course 'Anatomy of neuromuscular interaction' (Medical faculty course for Biotechnology students), University of Padova, 2006

Specialization level course: 'Medical Genetics and Oncology' Schools of specialization at the Medical School, University of Padova, 2015

International Training School for hematologists and geneticist in training, Bertinoro IT March 2019 and November 2021 'Predisposition to Hereditary Leukemia and Lymphoma' – Local Organizer

Part V Society memberships, Awards and Honors, Invited Symposium Lectures

Professional society memberships

ASCO, ASH, EHA, I-BFM [ALL, RefD, B&D and HGVcmtes], AIEO, EWOG

Invited lectures

2022 virtual 12-13/05/2022 lecture at the course of Childhood Cancer: causes and epidemiology organized by SIOP Europe

2020 Ankara 15-16/02/2020 Keynote at the Clinical Course 'Familial cancer' organized by the Turkish Society of Pediatric Hematology

2020 Milano 27-28/01/2020 Keynote at the I-BFM meeting joint B&D and GV committees 'IKZF1 germline genomic variants in Leukemia and Immune deficiency.'

2019 Moshi (TZ) Kilimanjaro 16/12/2019 Chistian Medical Centre Clinial conference 'Family members at risk of blood cancers'

2019 Milano 24-26/11/2019 COST Action CA16223 'IKAROS somatic and germline variants in Leukemia'

2019 Istanbul 11-12/10/2019 Keynote at Predisposition to Hereditary Leukemia and Lymphoma workshop

2019 Brussels 19/09/2019 Keynote at ESID meeting session Primary immunodeficiency and malignancy: 'IKAROS and LEUKEMIA'

2019 Bertinoro 24-29/03/2019 lectures at the Training School 'Predisposition to Hereditary Leukemia and Lymphoma

2018 Belgrade (RS) 25-26/10/2018 WG5 meeting CA1616223 Keynote Germline genetic *IKZF1* variation and predisposition to childhood acute lymphoblastic leukemia

2018 Wilsede (G) 08/06/2018 invited lecture 'Leukemia Research: challenges for biologists'

2018 Bilbao (S) 4-5/02/2018 CA16223 lecture 'Ethical, Legal and Socioeconomical implications of familial cancer risk'

2017 Padova 19/04/2017 Keynote 'Cancer Science for Biologists' Master program of the Department of Biology – University of Padova.

2015 Budapest 10/05/2015 iBFM Special Symposium on Leukemia predisposition – invited presentation on '*IKZF1* germline mutation uncovers familial predisposition to leukemia'

2014 Milano 28/01/2014 BFM meeting - presentation on 'Familial leukemia'

2014 Ulm 15/05/2014 invited keynote: 'Original observations as guidance of passionate leukemia research'

2014 Zurich 07/2/2014 IntReALL meeting - presentation on 'Activated TKs in High-risk Ph-like BCP-ALL'

2013 Milano HEMID workshop 16/09/2013 lecture on 'New prognostic markers in leukemia, how research becomes diagnostics'

2013 Kiel 14/5/2013 presentation on Prognostic impact of P2RY8-CRLF2 minor clones at diagnosis of BCP-ALL 2013

2013 Kiel 15/5/2013 presentation on 'Ph-like BCP-ALL in Italy'.

2012 Padova 17/04/2012 symposium at the IOV - lecture on Biology of BCP-ALL 'A long and winding road'.

2012 Istanbul 08/10/2012 COST- EUGESMA project meeting - keynote lecture on 'Genetics in Pediatric Leukemia'

2011 Berlin 20/10/2011 ELN Frontiers meeting - award presentation
'Mutation screening of drugable target molecules can be readily introduced in the management and diagnosis of hematologic malignancies'

2010 Oslo 20/06/2010 invited lecture at meeting 21st of the European Association for Cancer Research on 'Gene expression profiling of leukemia from bench to cot-side'

2008 Kalmar 17/10/2008 Invited lecture at the University of Kalmar, Sweden

2008 Johannesburg 20/01/2008 Invited lecture at the Faculty of Medical Science Witwatersrand University, Johannesburg, SA

2007 Teheran 11/10/2007 invited speaker at the annual congress of the Iranian society of pediatrics.

2007 Montevideo: Invited lectures at Biology research Institute 'Clemente Estable' Montevideo, Uruguay

2005 10th World Congress on Advances in Oncology, Crete, Greece. (Invited Lecture and session chair)

Part VI - Funding Information

[grants as PI-principal investigators or I-investigator]

1982-1983: Queen Elizabeth Foundation Grant (Belgium)

1983-1985: Swedish Medical Counsel Grant for visiting scientists

1988-1991: Grant fellow of the Royal Dutch Academy of Sciences

1999-2001: Research Grant IRCCS, Pavia ITALY

2001-2005: Research Grant Foundation 'Citta della Speranza'

2004-present : Travel Grant European Leukemia Network (ENL)

2008-2013: Management committee of COST project BM0801 'Translating genomic and epigenetic studies of MDS and AML'.

2009-2012: Grant CARIPARO project of excellence entitled: 'Cellular interactions in the bone marrow vascular niche: the development of an in vivo model to study key interactions in acute leukemia'

2009-2012: Grant EU project FP7 - MONAD FP7-NMP-2008 No:CP-FP 228971-2

2011-2014: Grant EU project ENCCA WP09: 'Improved therapeutic strategies using predictive biomarkers in leukaemias'

2012-2015: Grant CARIPLO: ' Identification and functional characterization of new risk factors in childhood acute lymphoblastic leukemia'

2017-present: Management committee COST project OC-2016-2-21584 LEukemia GENE Discovery by data sharing, mining, and collaboration (WL-WG5).

Part VII – Research Activities / Scientific interest

Major research interests:

Molecular characterization of leukemia: ALL, AML, MDS and JMML; classification of leukemia subgroups based on gene expression profiling and in-depth studies of genetic pathway aberrations related to MRD and clinical outcome. New findings are transferred to model organisms: murine xenotransplant model; canine model (spontaneous leukemia and lymphoma) and Zebrafish lines of T-ALL leukemia/lymphoma for functional studies.

In the last 15 years I contributed to building a strong research framework for the laboratory of oncohematology at the department of Pediatrics in Padova and established standing collaborations with national (Italian) and international leukemia research groups. We hold several national and European grants. Currently I'm partime employed on a contract basis working as a consultant for my ex-collaborators at the University of Padova (Department of Women's and Children's disease and the Department of Molecular Medicine). In the EU network I had the lead in developing new IC forms and methods for families and patients in oncology.

Key words: Leukemia research, Genomics, Transcriptomics, Animal Models, circular RNA, Familial Leukemia, Genetic Counselling and Ethical Legal Socio-economical Implications (ELSI) of genomic findings in pediatric oncology.

Our discovery in 2014 of a family with recurrent germline mutations in IKAROS that associated with ALL in the family was the incentive for a large collaborative action to study Genetic Predisposition in Leukemia and Lymphoma. Following this action that bundled diagnostic and research centers in Europe and beyond (currently more than 30 countries) 'genetic predisposition of blood cancers' is now recognized by the WHO and became a committee of SIOE Europe.

Part VIII – Summary of Scientific Achievements

Papers [international]	155	Pubmed 1978-2023
Total Impact factor		≈ 1200
Total Citations		>9000
Hirsch (H) index		49
Papers last 10 years		Pubmed 2010-2020: 100 papers
IF papers 2015-23		≈350

Part IX Editorial and grant reviewing work

Editorial work

2010-2018 regular reviewer for BJH; occasional reviewer for Haematologica; Leukemia (NPG) and Ped. Blood & Cancer.

Since 2016 reviewer for BLOOD and Blood Advances (American Society of Hematology), Scientific Reports (NPG).

Grant reviewer for:

- The Dotan Center (IS) for Hematological Malignancies
- BSH (UK)
- Czech Biomedical Science Foundation
- Swiss Confederation _ Federal commission for scholarships
- The German Childhood Cancer foundation
- The Israel Science Foundation.
- Blood Cancer UK

Part X – List of Publications 2013-2023

(see ORCID 0000-0001-5636-1006)

1) Parenzan, C.T., Dal Molin, A., Longo, G., Gaffo, E., Buratin, A., Cani, A., Boldrin, E., Serafin, V., Guglielmelli, P., Vannucchi, A.M., Cazzaniga, G., Biondi, A., Locatelli, F., Meyer, L.H., Buldini, B., te Kronnie, G., Bresolin, S., Bortoluzzi, S. Functional relevance of circRNA aberrant expression in

pediatric acute leukemia with KMT2A::AFF1 fusion (2024) *Blood Advances*, 8 (5), pp. 1305-1319.

2) Buratin, A., Borin, C., Tretti Parenzan, C., Dal Molin, A., Orsi, S., Binatti, A., Simon, K., Paganin, M., Serafin, V., Gaffo, E., te Kronnie, G., Van Vlierberghe, P., Bresolin, S., Bortoluzzi, S. CircFBXW7 in patients with T-cell ALL: depletion sustains MYC and NOTCH activation and leukemia cell viability (2023) *Experimental Hematology and Oncology*, 12 (1), art. no. 12, .

3) Scharov, K., Stanulla, M., Moericke, A., Zimmermann, M., Schrappe, M., Buldini, B., Bhatia, S., Borkhardt, A., Saitta, C., Galbiati, M., Bardini, M., Lo Nigro, L., Conter, V., Valsecchi, M.G., Biondi, A., Te Kronnie, G., Cario, G., Cazzaniga, G. Definition and Prognostic Value of Ph-like and IKZF1plus Status in Children With Down Syndrome and B-cell Precursor Acute Lymphoblastic Leukemia (2023) *HemaSphere*, 7 (6), p. E892.) Palmi, C., Bresolin, S., Junk, S., Fazio, G., Silvestri, D., Zaliova, M., Oikonomou, A.,

4) Lazic, J., Haas, O.A., Özbek, U., Ripperger, T., Byrjalsen, A., te Kronnie, G., Sayitoğlu, M., Ng, O.H., Agaoglu, N.B., Erbilgin, Y., Senturk, G., Khodzhoev, K., Sudutan, T., Altiner, S., Ozdemir, G.N., Demirsoy, U., Yilmaz, C.D., Ruml, J., Yalcin, K., Ili, E.G., Pantic, I., Vukovic, M., Mlynarski, W., Pastorczak, A., Bosch, J.V.D.W.T., Schlegelberger, B., Slamova, L., Loeffen, J., Garcia-Orad, A., Metzler, M., Reismüller, B., LEGEND-COST Working group 5 members. Perception and management of cancer predisposition in pediatric cancer centers: A European-wide questionnaire-based survey (2023) *Pediatric Blood and Cancer*, 70 (5), art. no. e30229, .

5) Cani, A., Parenzan, C.T., Frasson, C., Rampazzo, E., Scarparo, P., Francescato, S., Caicci, F., Barbieri, V., Rosato, A., Cesaro, S., Zecca, M., Micalizzi, C., Sainati, L., Pigazzi, M., Biffi, A., Buldini, B., Locatelli, F., Persano, L., Masetti, R., te Kronnie, G., Bresolin, S. Long-term proliferation of immature hypoxia-dependent JMML cells supported by a 3D in vitro system (2023) *Blood Advances*, 7 (8), pp. 1513-1524.

6) Dal Molin, A., Parenzan, C.T., Gaffo, E., Borin, C., Boldrin, E., Meyer, L.H., te Kronnie, G., Bresolin, S., Bortoluzzi, S. Discovery of fusion circular RNAs in leukemia with KMT2A::AFF1 rearrangements by the new software CircFusion (2023) *Briefings in Bioinformatics*, 24 (1), art. no. bbac589, .

7) Cousins, A., Olivares, O., Markert, E., Manoharan, A., Bubnova, X., Bresolin, S., Degn, M., Li, Z., Silvestri, D., McGregor, G., Tumanov, S., Sumpton, D., Kamphorst, J.J., Michie, A.M., Herzyk, P., Valsecchi, M.G., Yeoh, A.E., Schmiegelow, K., te Kronnie, G., Gottlieb, E., Halsey, C. Central nervous system involvement in childhood acute lymphoblastic leukemia is linked to upregulation of cholesterol biosynthetic pathway (2022) *Leukemia*, 36 (12), pp. 2903-2907.

8) Fazio, G., Bresolin, S., Silvestri, D., Quadri, M., Saitta, C., Vendramini, E., Buldini, B., Palmi, C., Bardini, M., Grioni, A., Rigamonti, S., Galbiati, M., Mecca, S., Savino, A.M., Peloso, A., Tu, J.-W., Bhatia, S., Borkhardt, A., Micalizzi, C., Lo Nigro, L., Locatelli, F., Conter, V., Rizzari, C., Valsecchi, M.G., te Kronnie, G., Biondi, A., Cazzaniga, G. PAX5 fusion genes are frequent in poor risk childhood acute lymphoblastic leukaemia and can be targeted with BIBF1120 (2022) *eBioMedicine*, 83, art. no. 104224, .

- 9) Boldrin, E., Gaffo, E., Niedermayer, A., Boer, J.M., Zimmermann, M., Weichenhan, D., Claus, R., Münch, V., Sun, Q., Enzenmüller, S., Seyfried, F., Demir, S., Zinngrebe, J., Cario, G., Schrappe, M., Den Boer, M.L., Plass, C., Debatin, K.-M., te Kronnie, G., Bortoluzzi, S., Meyer, L.H. MicroRNA-497/195 is tumor suppressive and cooperates with CDKN2A/B in pediatric acute lymphoblastic leukemia (2021) *Blood*, 138 (20), pp. 1953-1965.
- 10) Bamezai, S., Demir, D., Pulikkottil, A.J., Ciccarone, F., Fischbein, E., Sinha, A., Borga, C., te Kronnie, G., Meyer, L.-H., Mohr, F., Götze, M., Caiafa, P., Debatin, K.-M., Döhner, K., Döhner, H., González-Menéndez, I., Quintanilla-Fend, L., Herold, T., Jeremias, I., Feuring-Buske, M., Buske, C., Rawat, V.P.S. TET1 promotes growth of T-cell acute lymphoblastic leukemia and can be antagonized via PARP inhibition (2021) *Leukemia*, 35 (2), pp. 389-403.
- 11) Dal Molin, A., Hofmans, M., Gaffo, E., Buratin, A., Cavé, H., Flotho, C., de Haas, V., Niemeyer, C.M., Stary, J., Van Vlierberghe, P., Philippé, J., De Moerloose, B., te Kronnie, G., Bresolin, S., Lammens, T., Bortoluzzi, S. CircRNAs Dysregulated in Juvenile Myelomonocytic Leukemia: CircMCTP1 Stands Out (2021) *Frontiers in Cell and Developmental Biology*, 8, art. no. 613540, .
- 12) Buratin, A., Paganin, M., Gaffo, E., Dal Molin, A., Roels, J., Germano, G., Siddi, M.T., Serafin, V., de Decker, M., Gachet, S., Durinck, K., Speleman, F., Taghon, T., te Kronnie, G., van Vlierberghe, P., Bortoluzzi, S. Large-scale circular RNA deregulation in T-ALL: Unlocking unique ectopic expression of molecular subtypes (2020) *Blood Advances*, 4 (23), pp. 5902-5914.
- 13) Bornhauser, B., Cario, G., Rinaldi, A., Risch, T., Martinez, V.R., Schütte, M., Warnatz, H.-J., Scheidegger, N., Mirkowska, P., Temperli, M., Möller, C., Schumich, A., Dworzak, M., Attarbaschi, A., Brüggemann, M., Ritgen, M., Mejstrikova, E., Hofmann, A., Buldini, B., Scarparo, P., Basso, G., Maglia, O., Gaipa, G., Skoblyn, T.-L., te Kronnie, G., Vendramini, E., Panzer-Grümayer, R., Barz, M.J., Marovca, B., Hauri-Hohl, M., Niggli, F., Eckert, C., Schrappe, M., Stanulla, M., Zimmermann, M., Wollscheid, B., Yaspo, M.-L., Bourquin, J.-P.
The hematopoietic stem cell marker VNN2 is associated with chemoresistance in pediatric B-cell precursor ALL (2020) *Blood Advances*, 4 (17), pp. 4052-4064.
- 14) Germano, G., Valsecchi, M.G., Buldini, B., Cazzaniga, G., Zanon, C., Silvestri, D., te Kronnie, G., Basso, G., Paganin, M. Next-generation sequencing of PTEN mutations for monitoring minimal residual disease in T-cell acute lymphoblastic leukemia (2020) *Pediatric Blood and Cancer*, 67 (1), art. no. e28025, .
- 15) Demir, S., Boldrin, E., Sun, Q., Hampp, S., Tausch, E., Eckert, C., Ebinger, M., Handgretinger, R., te Kronnie, G., Wiesmüller, L., Stilgenbauer, S., Selivanova, G., Debatin, K.-M., Meyer, L.H. Therapeutic targeting of mutant p53 in pediatric acute lymphoblastic leukemia (2020) *Haematologica*, 105 (1), pp. 170-181.
- 16) Gaffo, E., Boldrin, E., Dal Molin, A., Bresolin, S., Bonizzato, A., Trentin, L., Frasson, C., Debatin, K.-M., Meyer, L.H., te Kronnie, G., Bortoluzzi, S. Circular RNA differential expression in blood cell

populations and exploration of circRNA deregulation in pediatric acute lymphoblastic leukemia (2019) *Scientific Reports*, 9 (1), art. no. 14670, .

17) Portale, F., Cricrì, G., Bresolin, S., Lupi, M., Gaspari, S., Silvestri, D., Russo, B., Marino, N., Ubezio, P., Pagni, F., Vergani, P., Te Kronnie, G., Valsecchi, M.G., Locatelli, F., Rizzari, C., Biondi, A., Dander, E., D'Amico, G. ActivinA: a new leukemia-promoting factor conferring migratory advantage to B-cell precursor-acute lymphoblastic leukemic cells (2019) *Haematologica*, 104 (3), pp. 533-545.

18) Borga, C., Park, G., Foster, C., Burroughs-Garcia, J., Marchesin, M., Shah, R., Hasan, A., Ahmed, S.T., Bresolin, S., Batchelor, L., Scordino, T., Miles, R.R., te Kronnie, G., Regens, J.L., Frazer, J.K. Simultaneous B and T cell acute lymphoblastic leukemias in zebrafish driven by transgenic MYC: implications for oncogenesis and lymphopoiesis (2019) *Leukemia*, 33 (2), pp. 333-347.

19) Paganin, M., Grillo, M.F., Silvestri, D., Scapinello, G., Buldini, B., Cazzaniga, G., Biondi, A., Valsecchi, M.G., Conter, V., te Kronnie, G., Basso, G. The presence of mutated and deleted PTEN is associated with an increased risk of relapse in childhood T cell acute lymphoblastic leukaemia treated with AIEOP-BFM ALL protocols (2018) *British Journal of Haematology*, 182 (5), pp. 705-711.

20) Churchman, M.L., Qian, M., te Kronnie, G., Zhang, R., Yang, W., Zhang, H., Lana, T., Tedrick, P., Baskin, R., Verbist, K., Peters, J.L., Devidas, M., Larsen, E., Moore, I.M., Gu, Z., Qu, C., Yoshihara, H., Porter, S.N., Pruett-Miller, S.M., Wu, G., Raetz, E., Martin, P.L., Bowman, W.P., Winick, N., Mardis, E., Fulton, R., Stanulla, M., Evans, W.E., Relling, M.V., Pui, C.-H., Hunger, S.P., Loh, M.L., Handgretinger, R., Nichols, K.E., Yang, J.J., Mullighan, C.G. Germline Genetic IKZF1 Variation and Predisposition to Childhood Acute Lymphoblastic Leukemia (2018) *Cancer Cell*, 33 (5), pp. 937-948.e8.

21) Stanulla, M., Dagdan, E., Zaliova, M., Möricke, A., Palmi, C., Cazzaniga, G., Eckert, C., Te Kronnie, G., Bourquin, J.-P., Bornhauser, B., Koehler, R., Bartram, C.R., Ludwig, W.-D., Bleckmann, K., Groeneveld-Krentz, S., Schewe, D., Junk, S.V., Hinze, L., Klein, N., Kratz, C.P., Biondi, A., Borkhardt, A., Kulozik, A., Muckenthaler, M.U., Basso, G., Valsecchi, M.G., Izraeli, S., Petersen, B.-S., Franke, A., Dörge, P., Steinemann, D., Haas, O.A., Panzer-Grümayer, R., Cavé, H., Houlston, R.S., Cario, G., Schrappe, M., Zimmermann, M. IKZF1 plus defines a new minimal residual disease-dependent very-poor prognostic profile in pediatric b-cell precursor acute lymphoblastic leukemia (2018) *Journal of Clinical Oncology*, 36 (12), pp. 1240-1249.

22) Bortolozzi, R., Bresolin, S., Rampazzo, E., Paganin, M., Maule, F., Mariotto, E., Boso, D., Minuzzo, S., Agnusdei, V., Viola, G., Te Kronnie, G., Cazzaniga, G., Basso, G., Persano, L.

AKR1C enzymes sustain therapy resistance in paediatric T-ALL /631/67/1059/2326 /631/67/1990/283/2125 article (2018) *British Journal of Cancer*, 118 (7), pp. 985-994.

- 23) Coppe, A., Nogara, L., Pizzuto, M.S., Cani, A., Cesaro, S., Masetti, R., Locatelli, F., te Kronnie, G., Basso, G., Bortoluzzi, S., Bresolin, S. Somatic mutations activating Wiskott–Aldrich syndrome protein concomitant with RAS pathway mutations in juvenile myelomonocytic leukemia patients (2018) *Human Mutation*, 39 (4), pp. 579-587.
- 24) Garrido Castro, P., Van Roon, E.H.J., Pinhanços, S.S., Trentin, L., Schneider, P., Kerstjens, M., Te Kronnie, G., Heidenreich, O., Pieters, R., Stam, R.W. The HDAC inhibitor panobinostat (LBH589) exerts in vivo anti-leukaemic activity against MLL-rearranged acute lymphoblastic leukaemia and involves the RNF20/RNF40/WAC-H2B ubiquitination axis (2018) *Leukemia*, 32 (2), pp. 323-331.
- 25) Chaudhuri, S., Korten, T., Korten, S., Milani, G., Lana, T., Te Kronnie, G., Diez, S. Label-Free Detection of Microvesicles and Proteins by the Bundling of Gliding Microtubules (2018) *Nano Letters*, 18 (1), pp. 117-123.
- 26) Savino, A.M., Sarno, J., Trentin, L., Vieri, M., Fazio, G., Bardini, M., Bugarin, C., Fossati, G., Davis, K.L., Gaipa, G., Izraeli, S., Meyer, L.H., Nolan, G.P., Biondi, A., Te Kronnie, G., Palmi, C., Cazzaniga, G. The histone deacetylase inhibitor givinostat (ITF2357) exhibits potent anti-tumor activity against CRLF2-rearranged BCP-ALL (2017) *Leukemia*, 31 (11), pp. 2365-2375.
- 27) Bronzini, I., Aresu, L., Paganin, M., Marchioretto, L., Comazzi, S., Cian, F., Riondato, F., Marconato, L., Martini, V., te Kronnie, G. DNA methylation and targeted sequencing of methyltransferases family genes in canine acute myeloid leukaemia, modelling human myeloid leukaemia (2017) *Veterinary and Comparative Oncology*, 15 (3), pp. 910-918.
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