

**Name: Geffen Kleinstern**

**Date: 7/4/2020**

## **CURRICULUM VITAE**

### **1. Personal Details**

E-mail Address: gkleinste@univ.haifa.ac.il

### **2. Higher Education**

#### **a. Undergraduate and Graduate Studies**

<b>Period of Study</b>	<b>Name of Institution and Department</b>	<b>Degree</b>
10/2003-09/2007	Hebrew University, Jerusalem, Israel, Department of Statistics	BA
10/2007-09/2010	Hebrew University, Jerusalem, Israel, Department of Statistics	MA
10/2010-02/2016	Hebrew University, Jerusalem, Israel, School of Public Health, Faculty of Medicine	PHD
10/2010-09/2012	The University of Haifa, Haifa, Israel, Department of Statistics – Actuarial Sciences	Certificate

**b. Post-Doctoral Studies**

<b>Period of Study</b>	<b>Name of Institution and Department/Lab</b>	<b>Name of Host</b>
02/2016-06/2016	Mayo Clinic, Rochester, Minnesota, USA, Department of Health Sciences Research  <b>Research Fellow</b>	Dr. Susan Slager (mentor)
07/2016-07/2019	Mayo Clinic, Rochester, Minnesota, USA, Department of Health Sciences Research  <b>NIH R25 Cancer Genetic Epidemiology Training Program Mayo Clinic</b>  <b>Research Fellow</b>	Dr. Susan Slager (mentor)  Dr. James Cerhan (mentor)  Dr. Celine Vachon (R25 program director)
08/2019-present	Mayo Clinic, Rochester, Minnesota, USA, Department of Health Sciences Research  <b>Research Associate</b>	Dr. Susan Slager  Dr. James Cerhan

**3. Academic Ranks and Tenure in Institutes of Higher Education**

<b>Period</b>	<b>Name of Institution and Department</b>	<b>Rank/Position</b>
02/2016-07/2019	Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota, USA,	Research Fellow  Full time
08/2019-09/2020	Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota, USA,	Research Associate  Full time
10/2019-09/2020	Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota, USA,	Assistant Professor  Full time
11/2020-present	Department of Health Sciences Research, Mayo Clinic, Rochester, Minnesota, USA,	Research Collaborator
10/2020-present	School of Public Health, University of Haifa, Haifa, Israel	Senior Lecturer  Full time

#### 4. Offices in Academic Administration

None

#### 5. Scholarly Positions and Activities outside the University

<b>Years</b>	<b>Memberships in Academic Professional Associations</b>
2016-present	American Association for Cancer Research - Associate Member
2016-present	InterLymph Lymphoma Epidemiology Consortium - member
2016-present	Genetic Epidemiology of CLL (GEC) Consortium - member
2017-present	American Society of Hematology - Associate Member
2017-present	American Society of Human Genetics - member
2017-present	International Genetic Epidemiology Society - member

<b>Years</b>	<b>Reviewing for Refereed Journal</b>
05/2016	International Journal of Cancer I.F: 6.513
05/2016	International Journal of Cancer and Clinical Research
09/2016	Genetic Testing and Molecular Biomarkers I.F: 1.263
01/2017	Leukemia and Lymphoma I.F: 2.644
07/2017	Genetic Testing and Molecular Biomarkers I.F: 1.181
04/2018	Genetic Testing and Molecular Biomarkers I.F: 1.121
12/2018	Genetic Testing and Molecular Biomarkers I.F: 1.121
01/2019	Acta Oncologica I.F: 3.298
05/2019	British Journal of Haematology I.F: 5.206
10/2019	Scientific Reports I.F: 4.011
12/2019	Haematologica I.F: 7.57
05/2020	International Journal of Cancer I.F: 4.982*
05/2020	Cancer Epidemiology I.F: 2.179*
08/2020	Lancet Oncology I.F: 33.752*

<b>Years</b>	<b>Other Scholarly Positions and Activities</b>
2008-2016	Research Assistant in the laboratory for statistical consultation, the Department of Statistics, The Hebrew University. Processing and interpreting statistical data for Schneider Children's Hospital for international research on pediatric leukemia (ALL).

## 6. a. Active Participation in Scholarly Conferences

### a1. International Conferences - Held Abroad

<b>No.</b>	<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
1.	10/2014	ISEE Europe Young Researchers	Barcelona, Spain	Exposure to Hepatitis B and C and susceptibility to B-cell non-Hodgkin Lymphoma (B-NHL) among Israelis and Palestinians; A Case-Control Study	Poster presentation
2.	06/2015	International Lymphoma Epidemiology Consortium 14 <sup>th</sup> Annual InterLymph Conference	Groningen, Netherlands	Medical History, Environmental Exposures and B-cell Non-Hodgkin Lymphoma (B-NHL) and its Subtypes: A Case-Control Study Comparing Jews and Arabs in Israel and The West Bank	Poster presentation
3.	06/2016	International Lymphoma Epidemiology Consortium 15 <sup>th</sup> Annual InterLymph Conference	Rochester, Minnesota, USA	Association of environmental risk factors, family history, and polygenic risk scores with chronic lymphocytic leukemia	Oral presentation
4.	11/2016	CLL Family Study Consortium	Amelia Island, Florida, USA	Association of polygenic risk scores and family history with the risk of chronic lymphocytic leukemia and monoclonal B-cell lymphocytosis	Oral presentation
5.	11/2016	American Association for Cancer	Orlando, Florida, USA	Association of environmental risk factors, family history,	Oral presentation and poster

No.	Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
		Research - Improving Cancer Risk Prediction for Prevention and Early Detection		and polygenic risk scores with chronic lymphocytic leukemia	presentation
6.	12/2016	American Society of Hematology- Annual meeting	San Diego, California, USA	Risk of First Skin Cancers Among Chronic Lymphocytic Leukemia (CLL) Patients- The Effect of UV radiation and CLL Clinical and Prognostic Factor	Poster presentation
7.	04/2017	American Association for Cancer Research- Annual meeting	Washington, DC, USA	Association of polygenic risk scores and family history with the risk of chronic lymphocytic leukemia	Poster presentation
8.	06/2017	International Lymphoma Epidemiology Consortium 16 <sup>th</sup> Annual InterLymph Conference	Copenhagen, Denmark	Risk of First Skin Cancer Among Chronic Lymphocytic Leukemia (CLL) Patients - The Effect of UV Radiation and CLL Clinical and Prognostic Factors	Oral presentation
9.				Association of polygenic risk scores and family history with the risk of chronic lymphocytic leukemia (CLL) and monoclonal B-cell lymphocytosis (MBL)	Oral presentation
10.				Fine-mapping of genome-wide association study-discovered diffuse large B-cell lymphoma susceptibility loci	Oral presentation
11.	09/2017	International Genetic Epidemiology Society 26 <sup>th</sup>	Cambridge, UK	Association of polygenic risk scores with the risk of chronic lymphocytic leukemia (CLL) and monoclonal B-cell lymphocytosis (MBL)	Poster presentation

No.	Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
12.	12/2017	American Society of Hematology-Annual meeting	Atlanta, Georgia, USA	Factors Associated With Non-Melanoma Skin Cancer (NMSC) Among Chronic Lymphocytic Leukemia (CLL) Patients	Poster presentation
13.	Autoimmune Diseases and Prognosis Across Lymphoma Subtypes			Poster presentation	
14.	04/2018	American Association for Cancer Research-Annual meeting	Chicago, Illinois, USA	Inherited variants at 3q13.33 and 3p24.1 influences risk of diffuse large B-cell lymphoma	Poster presentation
15.	06/2018	International Lymphoma Epidemiology Consortium 17 <sup>th</sup> Annual InterLymph Conference	Chicago, Illinois, USA	Autoimmune Diseases and Prognosis Across Lymphoma Subtypes	Oral presentation
16.				Etiological and prognostic factors in Chronic Lymphocytic Leukemia (CLL) by non-aggressive and aggressive CLL status	Oral presentation
17.				Association of polygenic risk score using chronic lymphocytic leukemia variants with the risk of monoclonal B-cell lymphocytosis	Oral presentation
18.	10/2018	American Association for Human Genetics (ASHG), Annual meeting	San Diego, California, USA	Association between the risk of monoclonal B-cell lymphocytosis (MBL) and the chronic lymphocytic leukemia (CLL) polygenic risk score (PRS)	Poster presentation
19.				Lipid traits variants and the risk of non-Hodgkin lymphoma subtypes: A Mendelian Randomization Study	Poster presentation
20.	02/2019	Mayo Clinic CLL Research Forum Event	Scottsdale, Arizona, USA	Somatic mutations within chronic lymphocytic leukemia (CLL) putative driver genes are associated with outcomes	Oral presentation

No.	Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
				beyond the CLL prognostic index (CLL-IPI)	
21.	03/2019	American Association for Cancer Research-Annual meeting	Atlanta, Georgia, USA	Somatic mutations within chronic lymphocytic leukemia (CLL) putative driver genes are associated with outcomes beyond the CLL prognostic index (CLL-IPI)	Oral presentation
22.	06/2019	International Lymphoma Epidemiology Consortium 18 <sup>th</sup> Annual InterLymph Conference	Bordeaux, France	Tumor mutational load and germline polygenic risk score predicts time to first treatment in chronic lymphocytic leukemia (CLL) and high-count monoclonal B cell lymphocytosis (MBL)	Oral presentation
23.	12/2019	American Society of Hematology-Annual meeting	Orlando, Florida, USA	Tumor mutational load and germline polygenic risk score predicts time-to-first treatment in chronic lymphocytic leukemia (CLL) and high-count monoclonal B cell lymphocytosis (MBL)	Oral presentation
24.	06/2020	American Association for Cancer Research-Annual meeting	due to COVID-19 this was presented online on a virtual conference	Vaccination history and risk of lymphoma and its major subtypes	Oral presentation*
25.	06/2020	The European Hematology Association Annual meeting	due to COVID-19 this was presented online on a virtual conference	Tumor mutational load derived from recurrently mutated genes in chronic lymphocytic leukemia (CLL) predicts time-to-first treatment in high-count monoclonal B cell lymphocytosis (HC MBL)	Poster presentation*
27.	09/2020	International	due to	Vaccination history and risk of lymphoma and its	Oral

No.	Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
		Lymphoma Epidemiology Consortium	COVID-19	major subtypes	presentation*
28.	09/2020	19 <sup>th</sup> Annual InterLymph Conference	this was presented online on a virtual conference	Polygenetic Risk Score and Risk of Chronic Lymphocytic Leukemia, Monoclonal B-cell Lymphocytosis (MBL), and MBL Subtypes	Oral presentation*
29.	12/2020	American Society of Hematology- Annual meeting	due to COVID-19 this was presented online on a virtual conference	Polygenetic Risk Score and Risk of Chronic Lymphocytic Leukemia, Monoclonal B-cell Lymphocytosis (MBL), and MBL Subtypes	Poster presentation*
30.	04/2021	American Association for Cancer Research - Annual meeting	due to COVID-19 this was presented online on a virtual conference	Tumor mutational load derived from recurrently mutated genes in chronic lymphocytic leukemia (CLL) predicts time-to-first treatment in high-count monoclonal B-cell lymphocytosis (HC MBL)	Poster presentation*
31.	12/2021	American Society of Hematology- Annual meeting	Atlanta, Georgia, USA	MBL: genetic predisposition and progression to CLL	<b>Invited Speaker*</b>

**a2. International Conferences - Held in Israel**

No.	Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
1.	10/2018	Genomics - Prevention to Treatment, Population, Medicine and Society	Haifa, Israel	Association between the risk of monoclonal B-cell lymphocytosis (MBL) and the chronic lymphocytic leukemia (CLL) polygenic risk score (PRS)	Oral presentation



**a3. Local Conferences**

<b>No.</b>	<b>Date</b>	<b>Name of Conference</b>	<b>Place of Conference</b>	<b>Subject of Lecture/Discussion</b>	<b>Role</b>
1.	05/2014	Israeli Association of Public Health Physicians and Schools of Public Health- The 1st Annual Conference	Ramat Gan, Israel	Exposure to Hepatitis B and C and susceptibility to B-cell non-Hodgkin Lymphoma (B-NHL) among Israelis and Palestinians; A Case-Control Study.	Oral presentation
2.	06/2015	Israeli Association of Public Health Physicians and Schools of Public Health- The 2nd Annual Conference	Ramat Gan, Israel	Medical History, Environmental Exposures and B-cell Non-Hodgkin Lymphoma (B-NHL) Subtypes: A Case-Control Study Comparing Jews and Arabs in Israel and The West Bank.	Poster presentation
3.	06/2015	Research day of Hadassah Medical center and the Faculty of Medicine of the Hebrew University	Jerusalem, Israel	Exposure, infection, and immune response to Hepatitis B (HBV) and C (HCV) in the etiology of B-cell non-Hodgkin Lymphoma (B-NHL): A Case-Control Study in Israel and the West Bank.	Poster presentation

## 6. c. Organization of Conferences or Sessions

Year	Name of Conference	Place of Conference	Subject of Conference	Role
2017	InterLymph Annual Meeting	Copenhagen, Denmark	InterLymph Annual Meeting	Abstract Reviewer, Scientific Sessions  Member, Genetics Working Group Session Committee
2018	InterLymph Annual Meeting	Chicago, Illinois, USA	InterLymph Annual Meeting	Abstract Reviewer, Scientific Sessions  Member, Genetics Working Group Session Committee Member, Survival and Pathology Working Group Session Committee
2019	InterLymph Annual Meeting	Bordeaux, France	InterLymph Annual Meeting	Abstract Reviewer, Scientific Sessions  Member, Genetics Working Group Session Committee
2020	InterLymph Annual Meeting	due to COVID-19 this was presented online on a virtual conference	InterLymph Annual Meeting	Abstract Reviewer, Scientific Sessions*  Member, Genetics Working Group Session Committee*
2020	InterLymph Annual Meeting	due to COVID-19 this was presented online on a virtual conference	InterLymph Annual Meeting	Key member of the organizing planning committee*

## 7. Invited Scholarly Lectures (other than in conferences)

### Abroad

No.	Year	Name of Forum	Place of Lecture	Subject of Lecture	Role
1.	06/2016	Candidate lecture, R25 Mayo Genetic Epidemiology of Cancer Training Program	Mayo Clinic, Rochester, Minnesota, USA	Medical and Lifestyle Exposures, Hepatitis B and C Infections and Genetic Susceptibility to B-cell non-Hodgkin Lymphoma: A Case-Control Study among Jews and Arabs in Israel and the West Bank	Speaker
2.	07/2018	The Mayo Clinic Genetic Epidemiology and Risk Assessment (GERA) seminar	Mayo Clinic, Rochester, Minnesota, USA	Using polygenic risk scores to predict risk of chronic lymphocytic leukemia and its precursor monoclonal B-cell lymphocytosis	Speaker
3.	03/2019	Department of Epidemiology and Biostatistics seminar	Memorial Sloan Kettering Cancer Center (MSKCC), New York City, New York, USA	Using genetic scores to predict risk and outcome of chronic lymphocytic leukemia (CLL) and its precursor monoclonal B-cell lymphocytosis (MBL)	Speaker
4.	05/2019	The Mayo Clinic Genomics Interest Group (GIG) seminar	Mayo Clinic, Rochester, Minnesota, USA	Using genetic scores to predict risk and outcome of chronic lymphocytic leukemia (CLL) and its precursor monoclonal B-cell lymphocytosis (MBL)	Speaker

### In Israel

No.	Year	Name of Forum	Place of Lecture	Subject of Lecture	Role
1.	09/2013	Viral Hepatitis and non-Hodgkin lymphoma	This event was sponsored by the MERC-USAID, which was held at Notre	Preliminary results from Palestinian-Israeli case control study	Speaker

No.	Year	Name of Forum	Place of Lecture	Subject of Lecture	Role
		seminar	Dame Center in East Jerusalem, and included both Israeli and Palestinian investigators/physicians, in order to promote Israeli-Palestinian scientific collaborations		
2.	01/2016	Epidemiology and non-Hodgkin lymphoma seminar	This event was sponsored by the MERC-USAID, which was held at Notre Dame Center in East Jerusalem, and included both Israeli and Palestinian investigators/physicians, in order to promote Israeli-Palestinian scientific collaborations	Exposure to Hepatitis B, family history and B-NHL in Jews and Arabs in Israel and The West Bank	Speaker
3.	07/2018	School of Public Health seminar, Tel Aviv University Tel Aviv, Israel	Tel Aviv University Tel Aviv, Israel	Using polygenic risk scores to predict risk of chronic lymphocytic leukemia and its precursor monoclonal B-cell lymphocytosis	Speaker
4.	12/2019	School of Public Health seminar, University of Haifa, Haifa, Israel	University of Haifa, Haifa, Israel	Using inherited and tumor genetic scores to predict risk and outcome of chronic lymphocytic leukemia (CLL) and its precursor monoclonal B-cell lymphocytosis (MBL)	Speaker
5.	02/2020	School of Public Health seminar, Ben-Gurion University, Be'er Sheva, Israel	Ben-Gurion University, Beer Sheva, Israel	Using inherited and tumor genetic scores to predict risk and outcome of chronic lymphocytic leukemia (CLL) and its	Speaker *

No.	Year	Name of Forum	Place of Lecture	Subject of Lecture	Role
				precursor monoclonal B-cell lymphocytosis (MBL)	

## 8. Colloquium or Seminar Talks

None

## 9. Research Grants

### a. Grants Awarded

Years	Role in Research (PI, Co-PI, CI)	Other Researchers (Name & Role)	Title	Funded by	Amount	Relevant Publications
2021-2022	PI	Co-PI: Susan Slager, co-I: Sameer Parikh, Esteban Braggio, Huihuang Yan	Genetic Biomarkers for Risk of CLL Progression among high-count MBLs  Score:15 Percentile: 1	NIH R21CA256648	\$409,948	*

### b. Submission of Research Proposals – Pending

None

Years	Role in Research (PI, Co-PI, CI)	Other Researchers (Name & Role)	Title	Funds Requested Agency	Amount
2021	Co-PI	Revital Kariv (PI) Dvir Dahari (Co-PI)	Comprehensive whole genome analysis combined with clinical and modifiable risk	KSM Maccabi	*

			factors as a prediction tool for early and late onset colorectal cancer morbidity at Maccabi Health care services Bio-bank in Israel		
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**c. Submission of Research Proposals – Not Funded in the last three years.**

No.	Role in Research	Other Researchers	Title	Funds requested from	Years
1.	Co-PI	PIs: Susan Slager, James Cerhan	Association of environmental risk factors, family history, and polygenic risk scores with chronic lymphocytic leukemia and diffuse large B-cell lymphoma	Small Grant Proposal – Mayo Clinic	2016
2.	Co-I	PI: Susan Slager (Mayo Clinic) Co-PI: Karin Smedby (Karolinska Institutet) Co-I: Ingrid Glimelius (Karolinska Institutet)	Prognosis of Chronic Lymphocytic Leukemia (CLL) according to novel clinical, biological, environmental and genetic determinants	Mayo Clinic - Karolinska Institutet Grant	2017
3.	Co-I	PI: Esteban Braggio, Susan Slager	Bacon 2020/ Mutational screening and tumor mutation load to predict time to first treatment in monoclonal B-cell lymphocytosis	Mayo Clinic - Arizona	2020
4.	Co-PI	PI: Revital Kariv	Comprehensive investigation of	KSM Maccabi	2020*

No.	Role in Research	Other Researchers	Title	Funds requested from	Years
			polygenic risk scores, clinical and lifestyle related factors and association with colorectal cancer and CLL/lymphoma subtypes at Maccabi Health care services Bio-bank in Israel		

## 10. Scholarships, Awards and Prizes

No.	Years	Name of Award	Other Awardees	Purpose of Award or Achievement	Source
1.	2010	Excellence in teaching		As a teaching assistant in statistics courses for Nursing and for Pharmacy I received award for excellence in teaching	Faculty of Social Sciences, Hebrew University
2.	2013	Excellence in research		Award for excellence in my PhD research	Braun School of Public Health and Community Medicine - Faculty of Medicine, Hadassah-Hebrew University of Jerusalem
3.	2017	AACR-AbbVie Scholar-in-Training Award		Award for outstanding abstracts	American Association for Cancer Research, Washington, District of

No.	Years	Name of Award	Other Awardees	Purpose of Award or Achievement	Source
					Columbia
4.	2018	The Hebrew University postdoctoral scholarship program for outstanding doctoral women 2018		Based on my PhD and postdoctoral achievements I received a postdoctoral scholarship for 2018	Hebrew University
5.	2019	AACR Scholar-in-Training Award		Award for outstanding abstracts	American Association for Cancer Research, Atlanta, Georgia
6.	2020	AACR Scholar-in-Training Award		Award for outstanding abstracts	American Association for Cancer Research, San Diego, California



## 11. Teaching

### a. Courses Taught in Recent Years

<b>Years</b>	<b>Name of Course</b>	<b>Type of Course</b>	<b>Level</b>	<b>Number of Students</b>
2008-2009	Statistics for Business Administration and for Accounting, Hebrew University	Introduction Course	BA	~150
2009-2010	Statistics courses for Nursing and for Pharmacy, Hebrew University	Introduction Course	BSc	~150
2010-2016	Clinical Trials, School of Public Health, Hebrew University	Introduction Course	MPH/ MHA	~30
2012-2016	Statistics course, School of Public Health, Hebrew University	Introduction Course	MPH/ MHA	~60-100
2020-2021	Statistics course 1, School of Public Health, University of Haifa	Introduction Course	MPH	90*
2020-2021	Statistics course 2, School of Public Health, University of Haifa	Introduction Course	MPH	90*
2020-2021	Biostatistics course, School of Public Health, University of Haifa	Introduction Course	IMPH	21*
2020-2021	Survival analysis course, School of Public Health, University of Haifa	Advanced course	MPH	~5*
2020-2021	Guidance for final seminar paper course, School of Public Health, University of Haifa	Advanced course	MPH	~12*

**b. Supervision of Graduate Students**

Name of Student	Name of Other Mentors	Title of Thesis	Degree	Year of Completion / in Progress	Student's Achievements
Master's Students					
Elisha Babian	Prof. Ora Paltiel	האם ישנם הבדלים בין ישראלים ופולסטינים בנשאות של פתוגנים מזהמים שונים, ומה המאפיינים בין הנשאים ללא נשאים בתוך ובין שתי האוכלוסיות.	MD MPH	In progress	*
Ph.D. Students					
Post-Doctoral Fellows					

**Miscellaneous**

**2001-2003 Military Service IDF** - Served in the gifted athlete program and human resources in the military central command. Completed compulsory service at the rank of sergeant.

**1997-2004** Was a member of the Israeli National Synchronized swimming team and a candidate for the Athens Olympics 2004. Participated in international competitions including European and world championships.

**2004-2015** A member of the Hebrew University swimming team. Participated in national inter-university competitions including open water competitions.

Israeli champion for 5K open water - Israeli championship 2014.

## **PUBLICATIONS**

First author is the main contributor, last author is usually the group head; the rest appear according to their relative contribution (unless otherwise specified).

<b>H-index:</b>	13	<b>Source:</b> Google Scholar
<b>Citation index:</b>	483	<b>Source:</b> Google Scholar
<b>ORCID number:</b>	0000-0001-6148-0421	
<b>Google Scholar link:</b>	<a href="https://scholar.google.com/citations?user=6jeNImEAAA&amp;hl=en">https://scholar.google.com/citations?user=6jeNImEAAA&amp;hl=en</a>	

### **A. Ph.D. Dissertation**

<b>Title:</b>	Exposure and Genetic Susceptibility to Hepatitis B and C Infections and B-cell non-Hodgkin Lymphoma: A Case-Control Study among Jews and Arabs in Israel and the West Bank.
<b>Date of submission:</b>	PhD received Feb 18th 2016
<b>Number of pages:</b>	158
<b>Language:</b>	English
<b>Name of supervisor:</b>	Prof. Ora Paltiel, School of Public Health, Hebrew University Prof. Ronit Nirel, Department of Statistics, Hebrew University
<b>University:</b>	The Hebrew University
<b>Publications:</b> item no. from the following list (for example: B2, D12, etc.)	D3, D5, D17,

### **B. Scientific Books (Refereed)**

None

### **C. Monographs (Refereed)**

None

## **D. Articles in Refereed Journals**

### **Published**

1. Paltiel O, Fedorova G, Tadmor G, **Kleinstern G**, Maor Y, Chefetz B. Human Exposure to Wastewater-Derived Pharmaceuticals in Fresh Produce: A Randomized Controlled Trial Focusing on Carbamazepine. *Environmental science & technology*. 2016 Apr 19; 50 (8):4476-82 Epub 2016 Apr 07. PMID: 27021726. IF: 6.198; Citations: 77; Rank: 12/229 (Environmental Sciences), Q1.
2. Goldschmidt N, **Kleinstern G**, Orevi M, Paltiel O, Ben-Yehuda D, Gural A, Libster D, Lavie D, Gatt ME. Favorable outcome of primary mediastinal large B-cell lymphoma patients treated with sequential RCHOP-RICE regimen without radiotherapy. *Cancer chemotherapy and pharmacology*. 2016 May; 77 (5):1053-60 Epub 2016 Apr 07 PMID: 27056383. IF: 2.737; Citations: 7; Rank: 256/2029 (Clinical Medicine), Q1.
3. **Kleinstern G**, Seir RA, Perlman R, Abdeen Z, Khatib A, Elyan H, Dann EJ, Kedmi M, Ellis M, Nagler A, Amir G, Ben Yehuda D, Safadi R, Paltiel O. Associations between B-cell non-Hodgkin lymphoma and exposure, persistence and immune response to hepatitis B. *Haematologica*. 2016 Jul; 101 (7):e303-5 Epub 2016 Apr 21 PMID: 27102500. IF: 7.702; Citations: 10; Rank: 4/70 (Hematology), Q1.
4. Rottenstreich A, Da'as N, **Kleinstern G**, Spectre G, Amsalem H, Kalish Y. Pregnancy and non-pregnancy related ovarian vein thrombosis: Clinical course and outcome. *Thrombosis research*. 2016 Oct; 146:84-88 Epub 2016 Sept 05 PMID: 27614189. IF: 2.650; Citations: 10; Rank: 240/2029 (Clinical Medicine), Q1.
5. **Kleinstern G**, Abu Seir R, Perlman R, Khatib A, Abdeen Z, Elyan H, Nirel R, Amir G, Ramlawi A, Sabatin F, Boffetta P, Dann EJ, Kedmi M, Ellis M, Nagler A, Ben Yehuda D, Paltiel O. Ethnic variation in medical and lifestyle risk factors for B cell non-Hodgkin lymphoma: A case-control study among Israelis and Palestinians. *PLoS One*. 2017; 12 (2):e0171709 Epub 2017 Feb 14 PMID: 28196110. IF: 2.766; Citations: 10; Rank: 15/64 (Multidisciplinary Sciences), Q1
6. Goldschmidt N, Darawshy F, **Kleinstern G**, Slyusarevsky E, Pogrebijski G, Krichevsky S, Ben-Yehuda D, Gatt ME. The prognostic value of bone marrow involvement at the molecular level in aggressive lymphoma. *Leukemia & lymphoma*. 2017 Jan; 58 (1):45-52 Epub 2016 Oct 18 PMID: 27756163. IF: 2.644; Citations: 3; Rank: 296/2029 (Clinical Medicine), Q1.
7. Rottenstreich A, Barzilai M, Da'as N, **Kleinstern G**, Varon D, Kalish Y. Active malignancy in patients with renal vein thrombosis: influence upon clinical course and survival. *Clinical and experimental nephrology*. 2017 Feb; 21 (1):49-54 Epub 2016 Feb 09 PMID: 26861064. IF: 2.016; Citations: 1; Rank: 979/2061 (Clinical Medicine), Q2.
8. Rottenstreich A, **Kleinstern G**, Krichevsky S, Varon D, Lavie D, Kalish Y. Factors related to the development of acquired von Willebrand syndrome in patients with essential

- thrombocytopenia and polycythemia vera. *European journal of internal medicine*. 2017 Jun; 41:49-54 Epub 2016 Dec 02 PMID: 27919526. IF: 3.282; Citations: 5; Rank: 27/155 (Medicine, General & Internal), Q1.
9. Rottenstreich A, **Kleinstern G**, Bloom AI, Klimov A, Kalish Y. Indications, complications and outcomes of elderly patients undergoing retrievable inferior vena cava filter placement. *Geriatrics & gerontology international*. 2017 Oct; 17 (10):1508-1514 Epub 2016 Sept 20 PMID: 27647665. IF: 2.656; Citations: 0; Rank: 843/2061 (Clinical Medicine), Q2.
  10. Rottenstreich A, Amsalem H, **Kleinstern G**, Kalish Y. Outcomes of threatened abortions after anticoagulation treatment to prevent recurrent pregnancy loss. *Reproductive biomedicine online*. 2017 Oct; 35 (4):461-467 Epub 2017 July 03 PMID: 28756129. IF: 2.967; Citations: 3; Rank: 14/82 (Obstetrics & Gynecology), Q1.
  11. Rottenstreich A, Kalish Y, **Kleinstern G**, Yaacov AB, Dux J, Nissan A. Factors associated with thromboembolic events following cytoreductive surgery and hyperthermic intraperitoneal chemotherapy. *Journal of surgical oncology*. 2017 Dec; 116 (7):914-920 Epub 2017 June 26 PMID: 28650573. IF: 2.886; Citations: 6; Rank: 42/203 (Surgery), Q1.
  12. Rottenstreich A, Elazary R, Yuval JB, Spectre G, **Kleinstern G**, Kalish Y. Assessment of the procoagulant potential after laparoscopic sleeve gastrectomy: a potential role for extended thromboprophylaxis. *Surgery for Obesity and Related Diseases*. 2018 Jan; 14 (1):1-7 Epub 2017 Sept 28 PMID: 29104003. IF: 3.758; Citations: 4; Rank: 11/197 (Surgery), Q1.
  13. Rottenstreich A, Shai E, **Kleinstern G**, Spectre G, Varon D, Kalish Y. Assessment of procoagulant potential in patients with reactive thrombocytosis and its association with platelet count. *European journal of haematology*. 2018 Mar; 100 (3):286-293 Epub 2018 Jan 05 PMID: 29240268. IF: 2.217; Citations: 4; Rank: 601/2108 (Clinical Medicine), Q2.
  14. Rottenstreich A, Elazary R, Ezra Y, **Kleinstern G**, Beglaibter N, Elchalal U. Hypoglycemia during oral glucose tolerance test among post-bariatric surgery pregnant patients: incidence and perinatal significance. *Surgery for Obesity and Related Diseases*. 2018 Mar; 14 (3):347-353 Epub 2017 Dec 08 PMID: 29306610. IF: 3.758; Citations: 8; Rank: 11/197 (Surgery), Q1.
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None

### **F. Articles in Conference Proceedings**

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23. **Kleinstern G**, Dennis P Robinson, Carrie A Thompson, Melissa C Larson, Cristine Allmer, Grzegorz S Nowakowski, Timothy G Call, Stephen M Ansell, Andrew L Feldman, Neil E Kay, Thomas M Habermann, Susan L Slager, James R Cerhan. Vaccination history and risk of lymphoma and its major subtypes. 2020 Aug 15 *Cancer Research* 80 (16 Supplement), 1054-1054. \*
24. **Kleinstern G**, J. Brice Weinberg, Sameer A. Parikh, Esteban Braggio, Dennis P. Robinson, Aaron D. Norman, Kari G Rabe, Celine M. Vachon, Connie E. Lesnick, Timothy G. Call, Danielle M. Brander, Janet E. Olson, James R. Cerhan, Neil E. Kay, Curtis A. Hanson, Richard R. Furman, Tait Shanafelt and Susan L. Slager. Polygenic Risk Score and Risk of Chronic Lymphocytic Leukemia, Monoclonal B-Cell Lymphocytosis (MBL), and MBL Subtypes. 2020 Nov 5. *Blood* (2020) Vol. 136. AMER SOC HEMATOLOGY, 2020. \*
25. Celine M Vachon, Josiah Murray, Cristine Allmer, Dirk Larson, Aaron D Norman, Jason P Sinnwell, Angela Dispenzieri, **Kleinstern G**, Robert A Kyle, S Vincent Rajkumar, Susan L Slager, Shaji K Kumar, David L Murray. Comparison of MGUS Prevalence By Race and Family History Risk Groups Using a High Sensitivity Screening Method (MASS-FIX). 2020 Nov 5. *Blood* (2020) Vol. 136. AMER SOC HEMATOLOGY, 2020. \*
26. **Kleinstern G**, Dirk Larson, Cristine Allmer, Aaron D Norman, Jason P Sinnwell, S Vincent Rajkumar, Angela Dispenzieri, Robert A Kyle, Susan L Slager, Shaji K Kumar, Celine M Vachon. Body Mass Index and Clinical Factors Associated with Monoclonal Gammopathy

of Undetermined Significance (MGUS) Progression in Olmsted County, Minnesota. 2020  
Nov 5. *Blood* (2020) Vol. 136. AMER SOC HEMATOLOGY, 2020. \*

### **Accepted for Publication**

None

### **G. Entries in Encyclopedias**

None

### **H. Other Scientific Publications**

None

### **I. Other Works and Publications**

None

### **J. Submitted Publications**

#### **Articles**

#### **Under revision**

#### **Under review**

1. Ingrid Glimelius\*, **Geffen Kleinstern\***, Dennis P. Robinson, Larry Mansouri, Klaus Rostgaard, Henrik Hjalgrim, Timothy G. Call, Mark Liebow, Sameer A. Parikh, Neil E. Kay, Richard Rosenquist Brandell, James R. Cerhan, Susan L. Slager\*\*, Karin E. Smedby\*\*  
Etiological and prognostic factors in Chronic Lymphocytic Leukemia (CLL) by non-aggressive and aggressive CLL status  
**\*equal contribution**
2. **Geffen Kleinstern**, Dennis P. Robinson, Carrie A. Thompson, Melissa C. Larson, Cristine Allmer, Grzegorz S. Nowakowski, Timothy G. Call, Stephen M. Ansell, Andrew L. Feldman, Neil E. Kay, Thomas  
Vaccination history and risk of lymphoma and its major subtypes

#### **Submitted**

## **K. Summary of my Activities and Future Plans**

In one of our recent studies we found that the total number of mutated chronic lymphocytic leukemia (CLL) putative driver genes (i.e., the tumor mutational load), predicts time-to-first treatment among CLL and high-count monoclonal B cell lymphocytosis (MBL) patients (a precursor state to CLL). The tumor mutational load provided prognostic information beyond CLL International Prognostic Index (CLL-IPI), especially among those individuals in the low to intermediate CLL-IPI risk groups where 80% of the individuals with 2 or more genes with high-impact mutations progressed to therapy in 5 years compared to only 23% of the individuals with no high-impact mutations. This is the first study to incorporate CLL putative drive genes along with the CLL-IPI to predict time to progression requiring therapy among newly diagnosed untreated CLL and high-count MBL patients. About 75% of newly diagnosed CLLs and high-count MBLs are in the low to intermediate CLL-IPI risk groups, these patients are currently routinely advised to be monitored for disease progression every 6-12 months. We believe that a focused mutation panel of CLL driver genes should be sequenced in CLL and high-count MBL individuals at time of diagnosis as an additional and informative biomarker to predict time to progression requiring therapy. I am currently interested in evaluating the associations between DNA genomes of both germline and somatic to determine the burden of variants on CLL risk. Little is known about how the inherited genetic variants interact with the tumor genomes (RNA and DNA) or contribute to tumor evolution in CLL. This study will provide us the opportunity to understand the relationship among inherited and acquired variants in CLL risk.

In the future, genotyping data will be available for every individual and will become common practice; clinicians will have patients' genotypes available before a prescription is written. This will mark a new era in medicine. Progress will depend on molecular understanding of disease in order to optimize preventive healthcare strategies and drug therapies while people are at the earliest stages of disease or are asymptomatic. Each individual has unique clinical, genetic and environmental information, therefore the nature of disease, its onset, its course, and how it might respond to drug or other interventions is also unique for every person. Therefore, my long-term research interests are to translate these factors into precision diagnostic tests and targeted therapies where we will develop novel biomarkers using all these new increasing genetic and epidemiological data that will be suitable for personalized medicine.

### **In Preparation**

#### **Books**

None

## Articles

1. **Geffen Kleinstern**, Sara J. Achenbach, Dennis P. Robinson, Aaron D. Norman, Kari G. Chaffee, Connie E. Lesnick, Sameer A. Parikh, Timothy G. Call, Janet E. Olson, James R. Cerhan, Neil E. Kay, Curtis A. Hanson, Tait D. Shanafelt, Susan L. Slager  
Association between the risk of monoclonal B-cell lymphocytosis (MBL) and the chronic lymphocytic leukemia (CLL) polygenic risk score (PRS)
2. Terry Boyle, Paige M. Bracci, **Geffen Kleinstern**, James R. Cerhan, Yolanda Benavente, Delphine Casabonne, Brian C.-H. Chiu, Thomas M. Habermann, Elizabeth A. Holly, Mark Liebow, Aaron Norman, Ora Paltiel, Dennis Robinson, Nathaniel Rothman, Rania Abu Seir, Susan L. Slager, Paul Villeneuve, Sophia S Wang, Dennis D. Weisenburger, John J. Spinelli  
Physical activity and the risk of non-Hodgkin lymphoma subtypes: a pooled analysis
3. Nicholas J. Boddicker, Daniel R. O'Brien, Esteban Braggio, Sara J. Achenbach, Kari G. Rabe, Aaron D. Norman, **Geffen Kleinstern**, Celine M. Vachon, Brian F. Kabat, Huihuang Yan<sup>1</sup>, Xing Li, Timothy G. Call, Sameer A. Parikh, Jose F. Leis, Wei Ding, James R. Cerhan, Tait D. Shanafelt, Gerald Marti, Curt Hanson, Mary Lou McMaster, Neil E. Kay, Neil E. Caporaso, and Susan L. Slager. Clonal mosaicism and risk of chronic lymphocytic leukemia (CLL) and monoclonal B-cell lymphocytosis (MBL) in a CLL familial cohort
4. Sonja I Berndt, Joseph Vijai, Yolanda Benavente, Nicola J Camp, Alexandra Nieters, Zhaoming Wang, Karin E Smedby, **Geffen Kleinstern**, Henrik Hjalgrim, Caroline M Besson, Christine F Skibola, Lindsay M Morton, Angela R Brooks-Wilson, Lauren R Teras, Hans-Olov Adami, Demetrius Albanes, Kenneth C Anderson, Stephen M Ansell, Djordje Atanackovic, Bryan Bassig, Nikolaus Becker, Parveen Bhatti, Brenda M Birmann, Paolo Boffetta, Paige M Bracci, Paul Brennan, Elizabeth E Brown, Laurie Burdett, Lisa A Cannon-Albright, Ellen T Chang, Brian C H Chiu, Charles C Chung, Jacqueline Clavel, Pierluigi Cocco, Graham Colditz, Lucia Conde, David V Conti, David G Cox, Karen Curtin, Anneclaire J De Roos, Immaculata De Vivo, W Ryan Diver, Ahmet Dogan, Christopher K Edlund, Lenka Foretova, Joseph F Fraumeni Jr, Attilio Gabbas, Hervé Ghesquières, Graham G Giles, Sally Glaser, Martha Glenn, Bengt Glimelius, Jian Gu, Thomas M Habermann, Christopher A Haiman, Corinne Haioun, Jonathan N Hofmann, Theodore R Holford, Elizabeth A Holly, Amy Hutchinson, Rebecca D Jackson, Ruth F Jarrett, Rudolph Kaaks, Eleanor Kane, Laurence N Kolonel, Yinfei Kong, Peter Kraft, Anne Krickler, Annette Lake, Qing Lan, Charles Lawrence, Dalin Li, Mark Liebow, Tracy Lightfoot, Brian K Link, Corrado Magnani, Ann Maria, Marc Maynadie, James McKay, Mads Melbye, Lucia Miligi, Roger L Milne, Thierry J Molina, Alain Monnereau, Rebecca Montalvan, Amy Moore, Jacob Musinsky, Kari E North, Anne J Novak, Kenan Onel, Mark P Purdue, Kristin A Rand, Elio Riboli, Jacques Riby, Eve Roman, Gilles Salles, Richard K Severson, Tait D Shanafelt, Martyn T Smith, Alexandra Smith, Kevin W Song, Lei Song, Melissa C Southey, John J Spinelli, Anthony Staines, Heather J Sutherland, Carrie A Thompson, Hervé Tilly, Lesley F Tinker, Ruth C Travis, Guido Tricot, Jenny Turner, Celine M Vachon, Claire M Vajdic, Anke Van Den Berg, David J Van Den Berg, Roel C H Vermeulen, Paolo Vineis, Alice H Wang, Sophia S Wang, Elisabete Weiderpass, George J Weiner, Stephanie Weinstein, Nicole Wong Doo, Yuanqing Ye, Meredith Yeager, Kai Yu, Anne Zeleniuch-Jacquotte, Yawei Zhang, Tongzhang Zheng, Elad Ziv, Joshua Sampson, Nilanjan Chatterjee, Silvia de Sanjose, Kenneth Offit, Wendy



Cozen, Xifeng Wu, James R Cerhan, Stephen J Chanock, Susan L Slager, Nathaniel Rothman  
Distinct genetic architecture identified for common non-Hodgkin lymphoma subtypes

**Chapters**

None