### WOMEN OF VALOR Jewish Heroes Across Time



### MEET THREE WOMEN OF VALOR







#### Gertrude Elion

Hannah Greenebaum Solomon

#### Ray Frank

### **GERTRUDE ELION**



Born in 1918 in NYC

#### Gertrude and her mother, Bertha Cohen Elion

Photo courtesy of: The Estate of Gertrude Elion

THE CITY OF NEW YORK DEPARTMENT OF EDUCATION **REPORT TO PARENTS** eton JUNIOR HIGH SCHOOL Gertrucke lion Report of .... First Name Last Name unanne Term Gar 40 to 59 Der 0 to 39 Good B or 76 to 85 Passing B or 60 to 73 A or 86 to 100 Ratings 4 5 1 2 End-Terra Passed. Mid-Term Failed SUBJECTS Grade Prelim-Mark Enn. Mark Emm. REALTY Effort Proficiency AA Conduct Self-Control Personal Habita Times Absent 0 Times Late 0 95 95 100 100 Reading and Literature 3 15 20 75 75 80 Composition 85 90 92 99 960 100 Grammar 100 97 96 98 Spelling 100 **Oral Expression** 70 Penmanship 96 8995 92 5 98 Arithmetic and Algebra History Geography Shop Cooking Science Sewing 2 100 100 Music 100 100 110 Physical Training 20 70 70 Drawing 65 80 100 93 Foreign Language 26 9 Biology 86 **Community Civics** Bookkeeping Stenography Anadal muer Typewriting 1100 Office Practice 811.400.

Elion's report card from 1930.

4) acid Reduction a) Reagants : Motal + acid ( s.g. Sn + HCl) Sn Cla + elisbolie HCl products. series of 4) Seade To a complicated w Anna always (4) 13) the pNMON reacte with some of Att, which has also been formed. **PH-CS** Note: these (occure dis cold ALL) reactions occur only to a юн Benjudine Semidine 1/mag [ ADDILLO the Semidine formed (5) In acid reduction . PNO is very larily

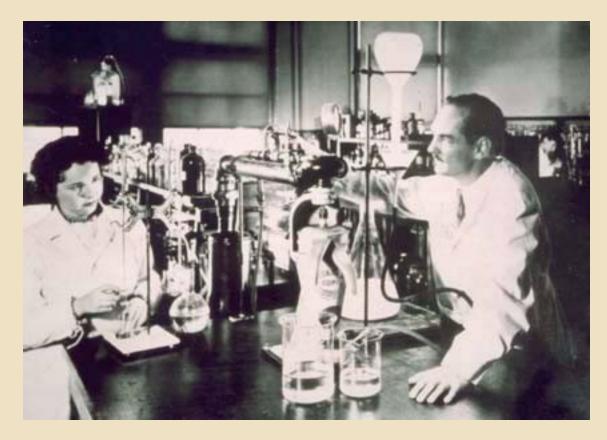
### A page from Elion's chemistry notebook



#### Gertrude Elion and Leonard Carter



#### Elion in the Burroughs Wellcome laboratory



### Gertrude Elion and George Hitchings

Elion's notes on the preparation of 6-Mercaptopurine which became the first effective chemotherapy for childhood leukemia.

lug- 29. 19-19 Prep. of 6- nathefamine presine + PH.I + HI -> Hg Sec. 48 g. HI ( sp. g. + 196 , 70% ) added in small portions 3.19. 2.8 di cl. 6 CH, NH presine (YD 144A) + approx 45g. PH, I (Takan from ZD 76 Bottle # 6) Slight evolu of reat. Continued stirring water all codime was decolorized. Since these was considerable excess Phil", added another s. o.g. 1.8 dicl - 6 cds NA gurine (YD 148) continued string will all brown color gone. Bale yellow material lift + some PHyI Heated to boiling for a few menutes. To change in appearance Apt did not go out sola . Chilled . Filtered three sections glasse . Washed i sed. ce. bedwary cone. AI. Pale gellow gest was dissolved in ca. soce of water i mild besting, filtered & make alkaline i NAYON On cooling, a colorless gelations man poted. Repeated, passed in ca in attempt to get, crystallise form. Some cryst material formed but 20211 on cooling , filly formed equin allowed & stand at room temp. overight Nish Filtered. Smill portion dried on porous plate -@ # 260 y. Remainder filtered seal hours longers. Still gelatinous. Worked is a little 95 % GHON. But not help Dried in voc derece. yild mit 25 thinks Prist: I small out of the dissolved in betweeter, added presis acid. Tak gellow succeste filt. Aft + receipt from 25 to Hote. Buncher of small readles \* mp. 263-4'd. () (Elemin parale decareto"; might mp. 6.6. imposts") Hydrallouite: (A) was doesloed in 10 m hat a # / Mil. chilled. Crystallie off-white ofthe Filtrad, worked I see cold saturely a sea about Eton, ether. Rei dried 20190 and a figt - 1.7 g. ( ( Inglinklinds) Fillings from ( take dan't to a 20. , chilled, fill, would to cold Etors, ether Parts 0.559 (2) Fultrate from (2) taken down almost to dupus in air, 24 cold stor which a get filling off, would to book, ether. his dried. Byt. s. 159. White alcolat washing from all & fractions combined, more ather added White get filt off, would a other. His dued. Bot a 359. (c) Paulic of C.C. : Instead C+ 2 2 2 and enter Colord + al. Hill . Ellowed to Stand. Terror ZPTIP yellow. + Ether, decant hypertial with supermatent so longer yellow washed a other Hara and lipt= 1859. D well my agaid Louill. 1 19.12



Now TREASTORE THESE Leffers Patent on TO GAST ENTO THE SAID

Burroughs Wellcome & Co. (U.S.A.) Inc., its successors

IN THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT

OF TO EXCLUSE OTHERS FROM MAKING, USING ON SELLING THE MOD DECK-COMMET THE CATTER NUCLES.

> In testimony whereof. There hereante set my hand and caused the seal of the Utent Office to be afficed at the Coty of Mashington to twenty-first day of December, he year of our Lord one thousand nine handred and tity-tour, and of the Independence of the United Indes of Imenia the one handred and seventy-ninth.

### One of 45 patents obtained by Elion

Allert



Elion in the lab



Elion wins the Nobel Prize, 1988



Gertrude Elion, 1918-1999

### HANNAH GREENEBAUM SOLOMON



Citation: Greenebaum Solomon, Hannah. Fabric of My Life. New York: Bloch Publishing Company, 1946.



### The Chicago Women's Club in Action

Citation: Hard, William. The Women of Tomorrow. New York: The Baker and Taylor Company, 1911.



Jan. 1, 1892.

COMMITTEE OF JEWISH CONGRESS.

Dear Madam: -

Essaylo

Your name has been given us to place upon our list of essayists for the Jewish Women's Congress, which will be held in .Chicago during the last week of September, 1893, under the auspices of the Religious section of the World's Fair Congresses. The probable duration of the Congress will be three days, the first of which will be devoted to religious, the second to social and the third to philanthropic questions. The follow ing subjects have been suggested and are submitted to you to choose from. However, should any other occur to you upon which you would prefer to write, will you kindly inform us at your earliest convenience.

#### Religious.

The Jewish women of Biblical and Madiaeval days (to 1500 A. D.). Jewish women of Modern days (from 1500 to present time). Life in the Ghetto. Our pulpit and our Sunday-school. The present status of the Jewess (1) Educational, (2) Social,

(3) Religious - The present and future of Judaism.

#### Social.

The influence of the discovery of America on the Jews.

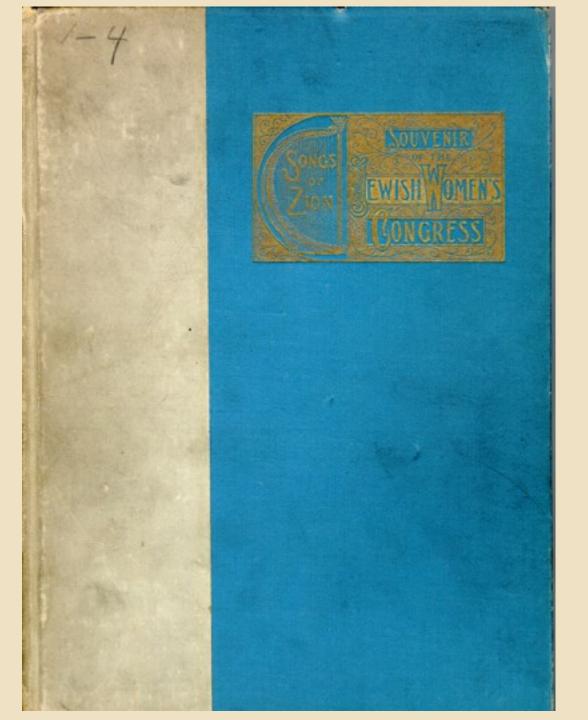
The position of women in the Orient.

The influence of the Jewish religion in the Home.

Woman in the synagogue.

Women as wage - workers with special reference to directing immigrante Mission work among the unenlightened classes of Jews.

#### Letter sent to potential speakers for the Jewish Women's Congress



**Citation:** Alois Kaiser, ed. A Collection of the Principal Melodies of the Synagogue, From the Earliest Times to the Present. Chicago: T. Rubovits, 1893



Citation: National Council of Jewish Women



### Greenebaum Solomon speaking at a synagogue

Citation: National Council of Jewish Women



#### Maxwell Street Market, Photo by Barnes-Crosby



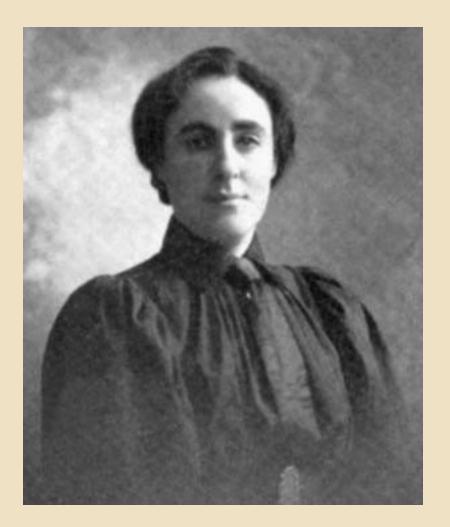
"Sane 4<sup>th</sup>" Parade of Suffragists



Hannah Greenebaum Solomon, 1858-1942

Citation: National Council of Jewish Women

### **RAY FRANK**



STATE OF NEVADA. She State Beard of Educations Hereby issues to - Men Ruchel Frank this Diploma, valid for Six Gears from date, which Siploma is issued in consideration of her good moral character, educational qualifications and successful experionce in the Profession of Teaching. flepartment of Public Instruction, Cannon Corr. Jecky 10 188

#### A LAY SERMON BY A YOUNG LADY."

Ladies and gentlemen, and-considering this is Yom Kippureve, I know you will permit me to say -friends, brothers and sisters; for surely to-night is one of the most solemn and sacred periods in the lives of Israelites, for to-night, at least, we must be brother and sister in letter and spirit. My position this evening is a novel one. From time immemorial the Jewish woman has remained in the background of history, quite content to let the fathers and brothers be the principals in a picture wherein she shone only by a reflected light. And it is well that it has been so; for while she has let the stronger ones do battle for her throughout centuries of darkness and opposition, she has gathered strength and courage to come forward in an age of progressive enlightenment and do battle for herself if necessary, or prove by being a noble helpmeet how truly she appreciates the love which shielded her in the past.

## THE MAIDEN IN THE TEMPLE.

The First Woman Since Deborah to

Preach in a Synagogue.

A YOUNG OAKLAND JEWESS MAKING A STUDY OF THEOLOGY.

Miss Ray Frank, on Whom the Eyes of the Hebrews of This Coast Are Turned - A Significant Declaration From a Fair Young Enthusiast Who Is Now Lecturing on Hebrew Poetry.

Miss Ray Frank, a daughter of Israel, has addressed a congregation in a synagogue. That a woman should preach to the Jews in one of their temples is more than unusual; it has but one precedent in all

### WOMAN IN THE SYNAGOGUE.

- 1. How can she best serve its interests?
- Should she take an active part in the administration of its affairs? If so, in what capacity?
- 3. How can she best co-operate with the Sabbath School?
- 4. Should she occupy the pulpit?
- 5. How can societies composed of Jewish women be made of greater benefit to the Synagogue?

The prominent part assumed by the Jewish woman of our day in religious matters has suggested the desirability of a symposium on "Woman in the Synagogue." Invitations were therefore sent to a number of prominent Jewish women to express their views upon the subject generally and upon the questions as above set forth. The following responses have been received:

Ray Frank's Opinions on Large Subjects. Belleves in the Intellectual Woman at Home. A Young Jewish Enthusiast Who Lectures on Art, Religion and the Family. e .home befores everything," says Miss Ray Frank, the remarkable young woman who is journalist, author, priest, lecturer and orator, and who has been many other things that have taken her far from the domestic hearth; and yet the contradiction between herself and her theory is only seeming.



Simon Litman

Citation: University of Illinois at Urbana-Champaign



### Ray Frank, 1861-1948

### THREE EXAMPLES OF HOW CHANGE IS MADE

- How do you fight for access and new rights for women or for Jews?
- How explicit should you be?
- How and when should you avoid discussing women's issues? What kinds of privilege (class geography, family name) make that work easier?
- How does the fight for change for some Jews expand possibilities and strengthen community for all Jews?

# INTRO ACTIVITIES

- Gauge what/who students already know
- Call out gaps in knowledge
- Get participants thinking about values and role models in different areas
- More description here: <u>http://jwa.org/teach/bestpractices#boys</u>
- Can make a list as a group or do it as competition with teams

## **ALL AGES**

- Study photos using Visual Thinking Strategies (VTS)
  - What is going on in this picture?
  - What do you see that makes you say that?
  - What more can we see?
- Play Celebrity/20 Questions
  - Fun way to synthesize learning
  - Can give participants a cheat sheet with facts
  - Great way to bring in comparisons with other role models or highlight connections to history, events, and people (e.g. was I a Zionist? Did I believe in women's suffrage? Did I know Martin Luther King, Jr.?)



## ELEMENTARY-WAX MUSEUM



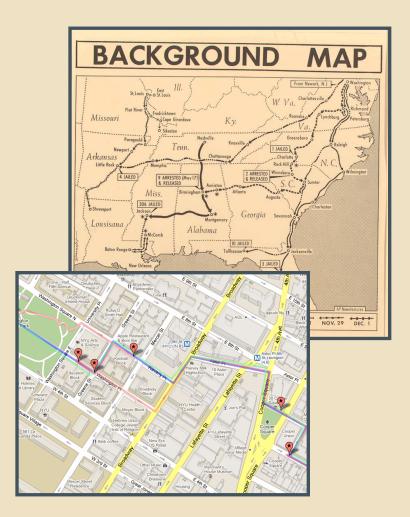
- Students research and curate the museum
- Can have guides, do audio recordings that play at each stop, add in video, etc.
- Bring in parents or other classes
- Have the actors/exhibit creators answer questions in a panel discussion as a means of reflection.

# ELEMENTARY-BOARD GAME

- Make a timeline of events
  - Highlight decisions and important events
- Using timeline as a guide, create a Candyland style game
- Kids can design own boards and pieces
- Take turns playing the games in small groups

# MIDDLE SCHOOL-TOUR

- Allows students to move from place to place
- Facilitates inclusion of pictures, text, and primary sources
- Particularly useful for history based on geography or time
- Can be self guided
- Can include crafts
- Great for family programs



### HIGH SCHOOL-TEA PARTY/DEBATES



- Students can explore the motives of historical players
- Discuss a past or contemporary issue in character
- Use real people to create discourse—differing opinions
- An excuse to eat food!

### HIGH SCHOOL-GRAPHIC NOVELS

- Follow a whole life or just one event
- Can be done as drawings, on the computer, or multimedia art pieces
- Explore conflicts or difficult decisions
- Highlight the impact of an individual on the community by bringing in other characters

# OTHER IDEAS ON JWA.ORG

- http://jwa.org/teach/bestpractices/ideasfromfield
- <u>http://jwa.org/teach/bestpractices/ideasfromjwa</u>
- <u>http://jwa.org/teach/bestpractices</u>

OR, share your ideas with us by leaving a comment on the March Webinar Webpage!

http://jwa.org/teach/profdev/webinars/march13