Name:	 Period:	

ACTIVITY:

WEXLER'S SEARCH FOR THE HUNTINGTON'S GENE

The year was 1979, and Congress has just issued you the funding to study Huntington's disease- a disorder afflicting more than 50,000 Americans. Very little was known about the inheritance of Huntington's, but Dr. Nancy Wexler (whose mother died of it) knew about the incredibly high rate of the disease around a place called Lake Maracaibo, Venezuela. Here, you'll be a part of a team sent to Lake Maracaibo to study a large family (of more than 5,000 member!), and report your findings!

The family spans five generations. It is your job (as it was hers) to pedigree the family and see what's going on here!

Below is a fax that has arrived from Lake Maracaibo...

Dear scientists,

What follows are the results of our interviews with 38 members of the Gonzales family. See what you can make of it.

Sincerely, The Team

Generation V:

Luis, son of Zelda and Ramon. AFFLICTED

Generation IV:

Ramon, son of Ricardo and Lydia. AFFLICTED
Zelda, married to Ramon. HEALTHY
Felipe, brother of Ramon. AFFLICTED
Juan, son of Miguel and Letty. AFFLICTED
Cira, daughter of Miguel and Letty. HEALTHY
Roberto, son of Miguel and Letty. HEALTHY
Nora, daughter of Jesus and Margarita, AFFLICTED
Alejandro, son of Pedro and Beatriz. AFFLICTED
Delia, daughter of Dano and Andrea. AFFLICTED
Tio, son of Dano and Andrea. AFFLICTED
Maria, daughter of David and Guadelupe. AFFLICTED
Nariza, daughter of David and Guadelupe. AFFLICTED

Generation III:

Lydia, daughter of Carlos and Imelda. AFFLICTED Ricardo, married to Lydia. HEALTHY Helga, daughter of Carlos and Imelda. HEALTHY Letty, daughter of Carlos and Imelda. AFFLICTED Miguel, married to Letty. HEALTHY Margarita, daughter of Carlos and Imelda. AFFLICTED

Jesus, married to Margarita. HEALTHY
Beatriz, daughter of Carlos and Imelda. AFFLICTED
Pedro, married to Beatriz. HEALTHY
Juanita, daughter Javier and Bonita. AFFLICTED
Benito, son of Javier and Bonita. HEALTHY
Dano, son of Chito and Chelita. AFFLICTED
Andrea, wife of Dano. HEALTHY
David, son of Chito and Chelita. AFFLICTED
Guadelupe, wife of David. HEALTHY
Horatio, son of Chito and Chelita. HEALTHY
Lucio, son of Chito and Chelita. HEALTHY

Generation II:

Imelda, daugher of Rigo and Esmerelda. AFFLICTED Carlos, married to Imelda. HEALTHY Javier, son of Rigo and Esmerelda. AFFLICTED Bonita, married to Javier. HEALTHY Chito, son of Rigo and Esmerelda. AFFLICTED Chelita, married to Chito. HEALTHY

Generation I:

Rigo. AFFLICTED Esmerelda. HEALTHY