'I often get asked. 'Do you have Eureka moments in genetics?' And mostly in science, you don't. But when you identify a disease gene, you do. It's really wonderful. It's amazing.' — Dr. Stephen Scherer

against Lafora curse



anian, left, Elayne (han and Mephen Scherer are part of a group of scientists at Yoronto's Hospital for Sick Children who have built an international reputation diacase graves. Chan's notebook, below, contains some of her research on a Lafura gene.

The World Wide with his transformed the lives of families with such diseases is Lefors. Once divided by prography, they can now share their experiences with one another. That is how a single adoptive mother from Qutenberg, Sweden, came to know and lowe a mother of two Lafors children from Rimounisk Que.

"Andestir Malerfant: and Vera Faludi have never met un person," Dr. Minausian says. "But they are closes than the closast sixters! know because of this ordeal."

In the may 1970, Ma. Paludi adopted a

sisters I know because of this ordeal."

In the early 1970s, Ms. Palsall adopted a baby from Ecnador. The child had been left on the doorstep of a convent. She named the baby Jessica. In retrospect, perhaps Jessica was the communications product of incest. It may be why she was absorbanced.

anasconec.

A delightful child and teen, Jessica was talketive and popular. "She spent hours on the phone," recalls Ms. Faludi. "She was loved by all."

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Thea, at 7, things started happening. Thea, at 7, things started happening. The year of the property of th

can't find my words.

Doctors at foutunberg's university hospital were initially stomped when they
saw Jessica in 1992. But then a skin biopsy showed the telltale Lafera bodies.

Ma. Palodi still gets angry when she describes their reaction.

They more or less just gave up," she
sars.

The way way and becomes when still a per-son. We had to go into intensive care he-son. We had to go into intensive care he-care to the still a still a per-decided by the still a still a still a her go to sleep. The doctors seemed to view Jessica as a bring copys. One doctor expressed frustration that Jessica was using an expensive imag ven-rilation su-chins. If a 32-year-old father interesting the still a still a still a still a consecution as a circlection, by we were the

he would take it from Jessica. She was not going to be alive long anyway, he

Ms. Malenfant had two children, a boy and a girl. Both had Laforn.

Then it suddealy occurred to me that maybe there's nothing wrong with the DNA, he recalls.

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The two mothers have never met, but 'they are closer than the closest sisters'

There had to be another gene. There were two kinds of Lafors.

The name, Malenfant, means 'sick child' in Prench; it host hard to margine how it originated. Use few people have strugged harder to the agoff their family legacy than Andert Melenfant.

The striking thing is that when you go exe Madame Malenfant, she lives a very modest life,' says Dr. Minassian.

Ven never would have found it without their belge,' Ma. Chan says.

Several wocks after the discovery. Dr.



to the mom... You think how borrible it would be to let go. Yet it's equally homibit to keep ber living and suffering his man amounced it. When the Turnito team amounced it when the Turnito team amounced it will be Lafors gene, Mc Faindi allowed herself to hope. Perhaps the lowed herself to hope. Perhaps the lowed herself to hope. Perhaps the cast at our for the disease.

Then the bad news arrived. Jessies had the FFMAA gene deletion. But the Malenfant children did not. There had to be another gene. There

"It's awful because the time is going. At least, for my daughter is going, because sive been ill for so long, She the oldest of all the Lafors patients. She's 29. She'll be 30 next April. And I am very, very scared."

Dr. Scherer understands. Despite the envisible list of disease genes he and his collegues have mapped in the past decade, not one has been cured. I'll she solutely frustrating because you know now what's wrong, he says.

"And then you have to figure out how to

And then you have to figure out how to fixed.

And then you have to figure out how to fixed.

The discovery of the second Lufors gene, NHLRCL, was published this mouth in the scennife yournal. Nature Genetics The long list of authors makes in plain this was a turn effort. Resides the gime hunters, it is at sourciogate who disgnoods the Lufors cases, clinical geneticiars, pathologists and the whole army of modern mandatem endocine. The team also believes a third Lufors gene intring in the genome.

One of the most arguet next steps will be to develop animals that get Lufors to two potential curve. In a bisource visit, and the production of the most arguet next steps will be to develop animals that get Lufors to two potential curve. In a bisource visit, and the control of the most arguet next steps will be to develop animals that get Lufors to two potential curve. In a bisource visit, and the step of the control of the development of the deep disorder that is a mild form of Lufors. We don't plan to experience to me the deep but we'd plan to experience to the deep but we'd