

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-1

The Genographic Project - Long Form
Tape 1B
OGILVY & MATHER

(MUSIC)

NARRATOR

This is the story of you: where you came from and how you got here. It is also the story of us: how despite all of our differences, we are more connected than we might think. Within each of us is a detailed account of our past. And as a result of a groundbreaking study, we are discovering things we once never thought possible.

(MUSIC)

(Super: Rebus Animation)

(Super: The Genographic Project
OUR HISTORY WITHIN)

NARRATOR

In April, 2005, "National Geographic" and IBM launched the Genographic Project, a massive five-year effort to trace our DNA back tens of thousands of years to our earliest ancestors. By collaborating with indigenous tribes, as well as gathering and analysing DNA from hundreds of thousands of people around the world, IBM and "National Geographic" are creating the world's largest

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-2

database of genotypes. The goal: To map the history of the human species.

DR. SPENCER WELLS

DIRECTOR, GENGRAPHIC PROJECT

I wanted to draw people together, to make people realise that we're all part of an extended family. And that our DNA connects all of us into a ... a very tight-knit group.

NARRATOR

Grand Central Station. A microcosm of human diversity. And the ideal place to demonstrate the power of the Genographic Project. Four strangers, picked at random, are about to find out their own personal history, and how they are related to one another.

DR. SPENCER WELLS

My name is Spencer Wells.

DEE DEE

Hello, Spencer.

DR. SPENCER WELLS

I work with the "National Geographic."

FRANK

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-3

Hello.

DR. SPENCER WELLS

I direct a project for them called the Genographic Project.

FRANK

Yeah?

DR. SPENCER WELLS

And we're using DNA as a tool to study how people all over the world are related to each other. Would you be interested in maybe giving us a sample and becoming a part of it.

CECILE NEPAL (?)

Oh, definitely.

J.W.

A- ... absolutely.

DR. SPENCER WELLS

Maybe getting yourself tested?

J.W.

One hundred percent.

FRANK

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-4

Sure, as long as it doesn't hurt (LAUGHS).

DR. SPENCER WELLS

It doesn't hurt at all. Well let's get you started swabbing.

DEE DEE

Don't look at any of my fillings.

FRANK

Inside of my cheek?

DR. SPENCER WELLS

Yup. Up and down. Perfect. Then you do a second one, just to make sure we have enough of your DNA. The first thing that comes out of the research is how closely related we all are.

FRANK

Right.

DR. SPENCER WELLS

So (OVERLAP) you know, we only started to separate about 2,000 generations ago, which is like that in geological sense.

FRANK

Oh, sure.

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-5

DR. SPENCER WELLS

We could be related. How do you feel about that?

DEE DEE

Oh, fantastic (LAUGHTER). Can't wait for my Christmas present.

(CUT)

NARRATOR

In just a few weeks, Dee Dee, Frank, Cecile, and J.W. will get the results of their DNA tests and discover the mysteries of their past. So far the Genographic Project has collected over 200,000 samples. And IBM's computational biology group has been helping analyse the results.

DR. SPENCER WELLS

IBM were the first people we approached, and it made complete sense, because there was this synergy between yes of course they can supply the hardware, the hard drives, and everything else that we used to actually store the database. But they could actually help us analyse it as well and ...

DR. AJAY ROYYURU

COMPUTATIONAL BIOLOGY, IBM

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-6

Biology has become an informational science. So the research problems that we focus on have to do with how you can analyse the data, what kind of new information you can extract and relate it to biological phenomena.

NICK DONOFRIO

IBM

It gives us much more intrinsic capability to apply to a myriad of other problems and issues in the world, in other industries, not just life sciences.

NARRATOR

Dee Dee lives near Minneapolis, where she's been tending bar for 26 years.

DEE DEE

There you go, honey, are you ready to order? Oh, hi, Spencer, the scientist.

DR. SPENCER WELLS

Laughs ...

DR. SPENCER WELLS

You start off in Africa, all those years ago, just like everybody else all over the world. And around 45,000 years ago, after living in Africa for a very long

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-7

time, a little group of your ancestors left Africa and moved up into the Middle East.

DR. SPENCER WELLS

Forty thousand years ago, you have recently come out of Africa, suddenly you're living in this icy wasteland with things like that walking around. And you've got to figure out a way to kill them, to make a living and survive.

DEE DEE

Hmm.

DR. SPENCER WELLS

What would you have done. Go to the bar?

DEE DEE

No. (LAUGHS) I was thinking about my ... not having a blow dryer.

NARRATOR

In southern California, Frank is retiring soon, and looking forward to a life on the golf course. He discovers that his ancient relatives crossed the Bering Strait in the last Ice Age, to become the first humans to settle in the Americas.

FRANK

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-8

That's quite interesting. Up to the last 15 to 20,000 years, uh, our ancestors were extremely adaptable, who survived by hunting large mammals, using sophisticated weapons and, uh, small stone blades and it kind of makes me understand why I (LAUGHS) feel that I'm such a survivor.

NARRATOR

Cecile Nepal's results were extremely rare.

CECILE NEPAL

What is most amazing is that I'm a ... descended from the first to ever po- ... to populate the Philippines, that's just ... that's just mind-boggling.

NARRATOR

Now, Cecile lives and works in New York City. But she still feels more connected than ever to her Philippine roots.

CECILE NEPAL

We are an ancient, ancient, ancient people. That ... that's ... that to me is fabulous.

NARRATOR

New York City cop J.W. lives in Brooklyn with his wife and son. His DNA results confirm his Puerto

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-9

Rican, Spanish, and ancient African heritage. But that's not all.

J.W.

What was surprising was that we were the actual first humans to ever plant seeds and from that, we generated this huge cultivation of crops, and ... and we pretty much changed the face of, I guess, mankind, if you would. Coming from grandparents who were farmers themselves, I kind of see the ... the relation there, so, pretty interesting.

DR. SPENCER WELLS

Everybody that we met at Grand Central that day ultimately traces back to an ancestor in ... in Africa.

J.W.

I feel connected because we all have one common place of origin, East Africa. Regardless of what our exteriors look like, regardless of how our accents may differ, our customs, our holidays, whatever the case may be, it all started here, and we all have that connection.

DR. SPENCER WELLS

The cool thing that ... that comes out of this research is obviously that we're all connected to each other,

GENOGRAPHIC LONG FORM

"TruTranscripts, The Transcription Experts" (212-686-0088)

1B-10

and that we scattered to the wind, if you will, to populate the world over the last 60,000 years.

(Super: For more information to participate
Go to ibm.com/genographic

Filmed on location in
New York City, NY
Los Angeles, CA
Minneapolis, MN
Washington D.C.

Additional footage supplied by The National
Geographic Society)

(MUSIC)

(END OF TAPE)