

## Hartmut Zänder

### A genetic splinter from Thuringia

... how does a meta comparison look like ? ...

It was Dirk Schweitzer, discussing with me in summer 2009 on **dna-forums**, who pointed out a possible testing with **23andme**, where we were together first as participants in the Beta version of **Relative finder**, then as distant cousins. In **ancestry labs > family inheritance: advanced** we could find this:



First is the plot-, second the table version. The start- and endpoints are rounded up, but what we know now is, that we share a **half-identical region**, giving us a defined **Identity by descent** segment. We are both born in Thuringia, but have not reached to determine our **MRCA**, our most recent common ancestor, although Dirk has a very good paper trail. It must have been someone of german descent between Thuringia, Silesia and near surroundings.

Comparison	Chromosome	Start point	End point	Genetic distance	# SNPs
Dirk Schweitzer vs. hartmut zaender	2	129000000	134000000	6.0 cM	781

There was the opportunity to upload the same raw data sets to other places.

#### 1) HIR-Search by Leon Kull

<http://hiropractic.snology.com:8080/22/>

If you want to contact him and upload, look for **napobo3** at **23andme** (upload possible for **familytreedna** and **deCODEme** clients too.)

First Person	Second Person	Chromosome	Genetic Distance	No Of SNPs	HIR Start	HIR End	HIR Length
Dirk Schweitzer	Hartmut Zaender	2	7.90	939	128124640	134300650	6176010

#### 2) Database by Jim McMillan

<http://www.box.net/shared/jr5llv2xro>

If you want to contact him and upload, look for **blueeyesredhair** at **23andme**

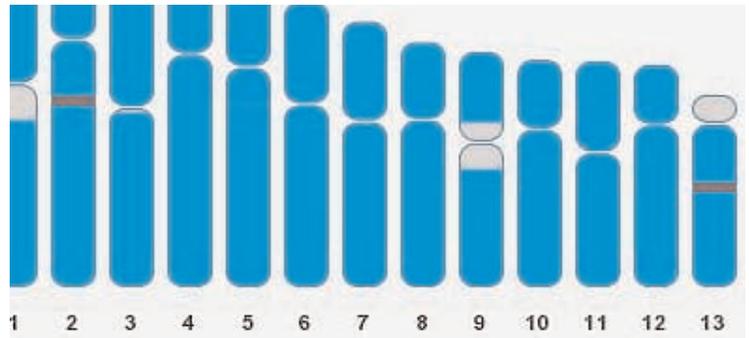
D	E	F	G	H	I	J	K	L	M	N
Name1	Name2	Ch	Start	Size	cM	SNPs	snps/cM	F Ident	H Ident	no call
hartmut_Zaender	Dirk-20090808	2	2128848084	5454674	7,386	839	113	491	343	4
hartmut_Zaender	Dirk-20090808	15	15025623922	1790593	4,522	243	53	124	117	1

As one can easily see, there are slightly different results for the same segment, due to not rounding up and another definition of the start point. In total we share 7 or 8 segments, the other showing considerable lower values.

In winter 2009/10 **deCODEme** allowed **23andme** clients a free upload of raw data and exploring their various tools. This is, how it looks in their **Genome Browser**:

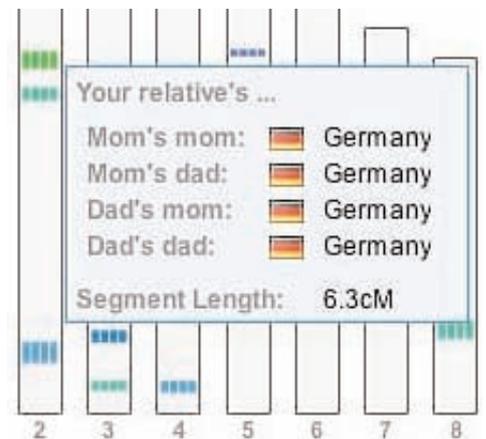


**deCODEme** also lists two 5MB segments, but on different chromosomes and without the significant cM values. They are testing with a 1000 MB chip. The counting starts with Zero at the top of the chromosome. They can divide between full and half identical segments.



In march 2010 **familytreedna** offered his **Family Finder**, testing with the 500MB Affymetrix chip, producing similar results like **Relative Finder**. They only have a quarter of SNP's in common. I have not participated here.

In June 2010 **23andme** released a new tool, the **Ancestry finder**, able to track down the places, your grandparents come from. You now can see all the segments of cousins, who did not respond before. Counting starts with Zero at the bottom of the chromosome. In **RF** you have percentages of your **HIR's**, in **AF** the cM values.

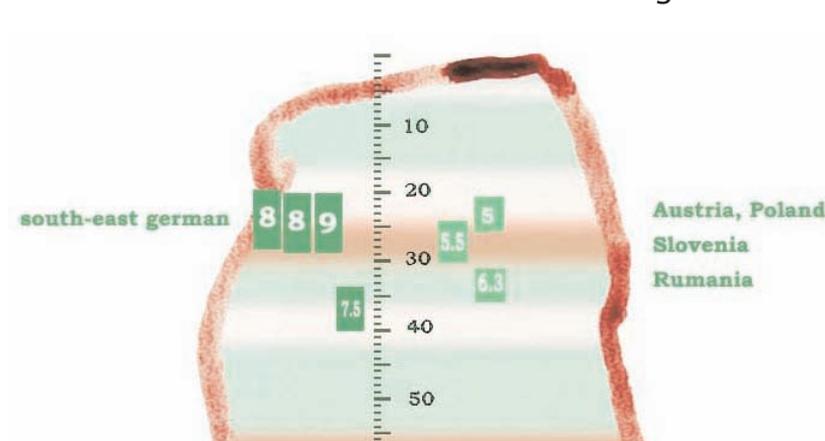


It is always up to oneself to gather all the scattered bits of information. I therefore made my own stylesheet as a print version to collect all listed **HIR's** of different datasets. <http://zaender.com/ur/css/0-css.pdf> for free download.

Each chromosome has an own page and enough place to harbour hundreds of **HIR's**. There are columns for both haplogroups, #SNP's and names too.



Our splinter from Thuringia is rather singular, no nonrelative around. On the same chromosome 2 there are clustering 4 **HIR's** in **RF** around a 5MB reddish ancestry band, I have compiled from sharing with about 300 clients of **deCODEme**.



Three additional new matches showed up in **AF**, all directing an East German region of origin. Of course such sort of Meta comparison only reveals my personal german genetic perspective, linking me to many North Europeans.