

MormonTimes

DNA tests rule out 2 as Smith descendants

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After more than a century of speculation about whether LDS Church founder Joseph Smith had children with any of his plural wives, a local geneticist said he recently has crossed two such purported descendants off the list of potential candidates.

Ugo Perego, director of operations at the Sorenson Molecular Genealogy Foundation, told the Deseret Morning News that technological advances in DNA testing during the past couple of years have

helped prove with "99.9 percent certainty" that two early Latter-day Saints thought by some to be Smith's children are not his descendants. They are:

- Mosiah Hancock, son of Clarissa Reed Hancock, who was married to Levi Hancock.
- Oliver Buell, son of Prescindia Huntington Buell, who was married to Norman Buell.

Perego said that brings to five the number of people that some believed were Smith descendants whose paternal DNA does not match up with his. To date, at least seven other early Latter-day Saints have been identified in various historical documents or in later writings as potential Smith offspring, he said.

In 2005, Perego said DNA testing also ruled out three other alleged male descendants — Moroni Llewellyn Pratt (son of Mary Ann Frost Pratt, married to Parley P. Pratt), Zebulon Jacobs (son of Zina Diantha Huntington Jacobs Smith, married to Henry Bailey Jacobs) and Orrison Smith (son of Fanny Alger).

Some candidates are surrounded by what he called "strong historical evidences like journal entries," while other alleged descendants have little historical basis to be related, other than "speculation based on conclusions that sometimes may have been too rushed," Perego said.

In Hancock's case, "historically, there is nothing about him. In fact, another son of Levi Hancock is more in question, named John Reed Hancock." Mid-20th century historian and author Fawn Brodie, in her book "No Man Knows My History," had "quite a lot about John Reed Hancock," he said.

Brodie also believed Buell was Smith's child, born during the early church's days in Far West, Mo., he said. "She goes quite far to explain why she thought this was the case. The time was perfect because (Prescindia's) husband was gone from the church, and there was a plural marriage that took place while he was gone."

Brodie also offered as evidence a photo of Buell resembling two of Joseph and Emma Smith's sons, writing that his "physiognomy ... seems to weigh the balance overwhelmingly on the side of Joseph's paternity."

Historians say Smith was married to as many as 30 women before he was killed by a mob in June 1844.

Perego also has gathered DNA samples on about 120 descendants of Josephine Rosetta Lyon, daughter of Sylvia Sessions Lyon, who was one of Smith's wives. But Y chromosome evidence, used to determine paternal relationships from father to son, is not present for Lyon because she is female. The effort to determine Lyon's parentage is ongoing, he said.

His most recent findings were presented as a paper at the annual John Whitmer Historical Association conference in Kirtland, Ohio, in late September. The group's officers since have asked Perego to put his presentation into an article format suitable for publication in their next annual journal.

The list of approximately 12 people alleged to have been Smith's children "may grow over time," Perego said, noting historical documents continue to surface. "I'm not saying the list I have is definitive or complete at all. But out of those we have data for, there is no evidence from DNA at this point that Joseph Smith had any children from women other than Emma Smith.

"In the future, if DNA data will be able to be collected and tested, we might know otherwise. But right now, we're able to eliminate five children from that list. There may be some cases we might never be able to test at all."

While Y chromosome DNA is passed from father to son and is most accurate in identifying living people, mitochondrial DNA is passed from mother to daughter and is more often used in paleontology and archaeology, Perego said. As a result, there are distinct limitations on the testing that can be done to date because such testing on a living — and cooperative — male descendant requires an unbroken male line.

Perego has mapped Smith's DNA by retrieving samples from living descendants of two sons he had with Emma Smith — Joseph Smith III and Alexander Hale Smith. "Their Y chromosomes were

identical, so we know for 100 percent sure what Joseph Smith's Y chromosome looked like. We can now use that standard to verify any other alleged sons," which he did with those who have been eliminated as possible descendants.

"For 160 years people have been writing in books or speculating that these people could have been Joseph Smith's children. When people write something in a book, many people refer to that almost as a fact. Brodie went on and on about Buell, talking about the timing and the picture — everything seems to indicate Buell was Joseph Smith's son. But the DNA says otherwise."

Perego said he was not only able to eliminate Smith as their father, but also was able to confirm that the men who were married to Hancock's and Buell's mothers were actually their biological fathers.

As he finds living descendants of people in question, Perego said he will be happy to continue to test them. "I think this will always be a work in progress. Hopefully, someday we'll be able to test some of the girls as well, when genetic testing is developed to accurately conclude if some of these girls were or were not his descendants."

Plural wife Sylvia Sessions Lyon left a deathbed affidavit for her daughter, Josephine, telling her that her father was Joseph Smith. In terms of circumstantial evidence, "that is probably the strongest case out there, but it involves a daughter. I've collected maybe 120 samples from descendants of Josephine, but as of today, there is not an accurate method" to prove parentage.

Perego's work is an independent project that Sorenson has allowed him to work on, rather than something the foundation does full-time, he said. His motive, he said, is truth, not glory.

"As a scientist, I like to look for truth. If there is a book that says this person was Joseph's son, and I have evidence that's not right, it's important for me to offer an alternative explanation from science that people can refer to. New authors in the future can then take that new genetic evidence into consideration.

"My goal is not at all a crusade to prove or disprove either that Joseph Smith practiced polygamy or that he had children from women other than Emma. I have no agenda to prove or disprove.

"There are legitimate cases of individuals studying family history who have a pedigree chart in front of them that shows" Smith as a third-great-grandfather.

"Because there is some evidence like a book or a rumor in the family, individuals don't know who to put on their pedigree chart. We're talking about real people who want to know who they are descended from.

"Most have told me they don't really care if they come from Joseph Smith or from someone else. They just want to know which one."

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For information on DNA testing for family history research, see Sorenson's Web site at www.SMGF.org.

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"DNA tests rule out 2 as Smith descendants: Scientific advances prove no genetic link". Deseret News. 2007-11-10. The following table lists some of the children born to Smith's alleged polygamous wives as well as those ruled out by genetic testing:" I think this is the best NPOV possible, there is no "scholarly consensus". Just a thought, and I don't plan to make any changes.--ARTEST4ECHO (talk/contribs) 16:49, 1 November 2011 (UTC). The DNA results appear to rule out the suspect, fuelling expectations that a chef, who committed suicide shortly after Mrs Witchalls was stabbed, will be named as the attacker. Detectives investigating the assault on Mrs Witchalls and her 21-month-old son in Little Bookham, Surrey, are increasingly sure that the man responsible was 23-year-old Richard Cazaly. DNA results for the samples show the blood was not Mrs Witchalls', a spokesman for Surrey Police said. The suspect was in the area at the time of the attack and matched the attacker's description given by Mrs Witchalls, but she did not pick him out in an identity parade. The blood came from an associate of the suspect. DNA strands are complementary because only A and T pair and G and C pair. If a DNA chain has the sequence of ATTC, then the other chain must have the complementary sequence TAAG. 5. State the base-pairing rules in DNA>. guanine and cytosine pair; thymine and adenine pair. 6. How does the base-pairing rules relate to structure of DNA? hydrogen bonds between complementary base pairs help hold the strands together. In addition, a double ringed purine on one strand bonds with a single-ringed pyrimidine on the opposite strand, so the chains are always the same distance apart. 7. If 2.2 picograms of Carrie A. Moore, "DNA tests rule out 2 as Smith descendants," Deseret Morning News, (10 November 2007), off-site (accessed 2 December 2008); Ugo A. Perego et al., "Resolving the Paternities of Oliver N. Buell and Mosiah L. Hancock through DNA," The John Whitmer Historical Association Journal 28 (2008): 128-36. For background information, see Ugo A. Perego and Scott R. Woodward, "Reconstructing the Y-Chromosome of Joseph Smith" (paper presented at the Mormon History Association Conference, 28 May 2005); Ugo A. Perego et al., "Reconstructing the Y-Chromosome of Joseph Smith Jr.: Genealogical A