

## What is the Life Sciences Institute of New Jersey? Why and How Does It Exist? What are its goals?

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FK:

A wonderful article about how the author planned, “conducted” and publicized results from a clinical study It was enlightening! The project was designed to show how easy it is to game the system:

I Fooled Millions Into Thinking Chocolate Helps Weight Loss. Here's How.

I Fooled Millions Into Thinking.Blog- The Future.5.27.2015.pdf

Dear FK,

Thank you for this article! I do publish from the Life Sciences Institute of New Jersey (LSINJ) established to promote fundamentally important science that is in the Public Interest. As the LSINJ has been mischaracterized on multiple sites, such as LinkedIn as well as through verbalized innuendo, it is important that the circumstances are clarified.

Our work has been under assault for over 35 years in the last 30 of which it was exponentially magnified. This after I was invited and gave a seminar at one of the top 3 rated University/Research Institutes in the World, located in Boston in 1986! The invitation was extended by a ‘Scientist’ who is at the pinnacle of Scientific Authority and for a lack of a better term will be referred to as ‘Scientist’ henceforth. From hindsight it is very clear, that the intent was to hand over our work, to other faculty at the Institute! These faculty members could not wait to request collaborations on hearing the seminar which is the well-known backdoor to taking another Scientist’s work! If successful they would have destroyed the Public Interest in the direction of development of this work that we had established.

At the time this ‘Scientist’ was under investigation by the Chairman of the *House Sub-committee on Oversight and Investigations* and in deep trouble. The attempted plagiarism of our work by this ‘Scientist’ and his colleagues was repeated many times, in many places and in many ways, over the decades! All the Principal Investigators involved in this assault were infamous for these types of habits! After an honest editor Dr. Walter Fitch tested all the disinformation and specious objections directed at it and published the work that was presented in the seminar, the assaults magnified even further. This is the link to the paper that was published in the journal *Molecular Biology and Evolution* and that is posted on our site:

Sequence Instability and Functional Inactivation of Murine YChromosomes Can Occur on a Specific Genetic Background, Ferez S. Nallaseth

StructDestabY.MBE-9(3) 331-365 (1992).pdf

They included inciting elimination of access to labs, jobs and well orchestrated disinformation campaigns in an effort to force a retraction over a decade and one that is still ongoing. It is now amply clear that additional purposes would also be served for the ‘Scientist’ directing the assault on our work which was deeply resented in some quarters of the Scientific Community. These were the same quarters in which about 100 years of evolutionary genetics including the works of JBS Haldane, William Bateson, Hermann J. Muller and Theodosius Dobzhansky were clearly unappreciated if not unknown!

What was the interest of the ‘Scientist’ in all of this? This ‘Scientist’ had

lost authority (nee power) as a consequence of various actions, drew on the negative lessons of History and understood that by making an example of someone so deeply resented in a segment of the Scientific community, there would be in return an appreciation for ‘keeping order in the house’! And of course a commensurate restoration of the authority that had slipped away with the inexorable direction that the House Investigation into those methods used by the Scientist and co-enforcers was taking – *Quid Pro Quo!* When our ongoing work could not be taken, it was interrupted under the guise of intellectual property rights and being tested for reproducibility. It was falsely characterized as not being so – i.e., as fraud! The impact of this disinformation on my career can only be imagined! This was much like the approach of testing for reproducibility by the same ‘Scientist’ in the taking of another Scientist’s Nobel Prize! Along the way, a Mentor, a colleague and I who understood the importance of this work to the Public Interest, worked at the Baylor College of Medicine, in 1994 to prove that the results that I had published represented a novel epigenetic mechanism. I had discovered this mechanism in 1984 based on integrating 100 years of evolutionary genetics and some serendipity. The results were highly reproducible but the disinformation was fanned and persisted long after the explanation emerged from Baylor for vested reasons:

GSA-MOHB-Mouse Genetics Meeting, June 25th 2011, POSTER 280 : Transgenerational effects Abstract number is above title. The first author is the presenter.Schedule. Available at [mousegenetics2011.org](http://mousegenetics2011.org) 280C Structural destabilization of Y chromosomes in interspecific backcrosses is consistent with variations in epigenetic modifications. Ferez S.Nallaseth, Z. Sheng Guo.

YPos-Intersp.Back.Epig.2011.pdf

As I was without a lab in 2011 both the Principal Investigator and the Director of the Research Institute had given me their permission to work in an unused lab with equipment that was funded by our tax dollars. However, as soon as the above abstract was submitted for presentation at the Genetics Society of America (GSA) meetings, in Washington, DC in 2011 the previously supportive Director was pressured and I was asked to vacate the lab for specious reasons. When this work was presented at the GSA meetings the concerned Scientists whose work it digressed from, met it with hostile reactions while most recognized the novelty and importance of both the results and the analytical methods! It was almost certainly the hidden hand of the ‘Scientist’ behind these most recent events!

Even higher resolution and greater depth and breadth of work have emerged from that impugned original paper published in *Molecular*

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Biology and Evolution. This work and its emergence was based on integrating and synthesizing several fields including Evolution, Speciation, Sex Determination, Gametogenesis, Chromosome and Genome Biology and a Synopsis was presented in 2012 by my colleagues and myself at the New York Academy of Sciences DNA Integrity Discussion Group Meeting in New York, the Society of Developmental Biology Meeting in Montreal, Canada, and at the GSA meetings in Washington, DC:

Genome Integrity Discussion Group Meeting Organizers: John Petrini (Memorial Sloan-Kettering Cancer Center), Rodney Rothstein (Columbia University Medical Center), Lorraine Symington (Columbia University Medical Center) Keynote Speaker: Susan M. Gasser (Friedrich Miescher Institute for Biomedical Research) The Genome Integrity Discussion Group provides a forum for interactions between basic and clinical research groups working on chromosome biology and function, and at the interface between chromosome integrity and onset and progression of malignancy.

NYAS.Sry-Y-HJ-RRcomplex.6.4.2012.pdf

Genetics Society of America- Model Organisms to Human Biology-Cancer Genetics, Washington, DC, 6.17.2012. Genome Stability and DNA Repair Poster 109. Dissecting developmentally and physiologically relevant regulation of mammalian chromosome biology with murine interspecific backcrosses, Y chromosomes, unstable inverted repeat (IR) Sry loci and HJ replication restart complexes. Ferez S. Nallaseth, et al.

GSA.MOHB-CancerGen.Wash....tonDC.6.17.2012.pdf

Society for Developmental Biology 71st Meeting, Montreal, Canada, 7.17.2012. Development and Evolution 431. B129 Dissecting physiologically and developmentally relevant genetic regulation of mammalian chromosome biology with murine interspecific backcrosses, Y chromosomes, unstable inverted repeat (IR) Sry loci, sex reversal phenotypes, viral Oris and HJ-replication. Ferez S. Nallaseth, et al

71st Mtng.SDB.Montreal. 7.17.2012.pdf

Thirty five years after we identified these fundamental mechanisms and such results in the paper as e.g., instability of the mammalian genome and dual direction of transfer of sequences from the Y chromosome to the genome these results are now being reproduced by a deluge in the literature! And yet the assaults on our work and on me personally continue for reasons that are petulant, vindictive or vernal. This behaviour is reminiscent of other better known unethical and ruthless actions taken by the same 'Scientist' against a junior Scientist who had the temerity to question the absence of controls in a controversial paper that was published in a high profile journal by the former with colleagues. Other work that is ongoing at the LSINJ or done elsewhere and in various stages of completion and publication is listed in the link:

<https://sites.google.com/site/nallasethfs/>

Leaders in Pharmaceutical Business Intelligence Funding, Deals & Partnerships: BIOLOGICS & MEDICAL DEVICES; BioMed e-Series; Medicine and Life Sciences Scientific Journal – <http://PharmaceuticalIntelligence.com> A Patient's Perspective: On Open Heart Surgery from Diagnosis and Intervention to Recovery – A New Day, a New Lease and Unfolding Questions! Guest Author: Ferez S. Nallaseth, Ph.D.

PatPerDiaIntRec.PhInt.8.22.2015.pdf

The LSINJ allows the completion and presentation of this work – and so protects the Public Interest in it! To appreciate the magnitude of this ongoing assault, the 'Scientist' orchestrating it was under Congressional investigation by the *Sub-committee for Oversight and Investigations*, found culpable for mis-conduct by at least 3 different investigative bodies, including by the above Congressman's Subcommittee, the Office of Research Integrity of the National Institutes of Health, and another Chaired by the President of an Ivy League University who asserted that what they had documented was 'only the most visible' of events. The 'Scientist' was forthwith removed from the Presidencies or Directorships of 3 top Research Universities or University/Research Institutions. Until a committee appointed by the *Department of Health and Human Services* overruled their findings – which essentially provided an escape from Investigations like Watergate – the 'Scientist' was likely to have been subjected to criminal prosecution! This was consistent with a characterization of the 'Scientist' in some European Scientific circles but which cannot be repeated in professional circles!

When our ongoing work could not be taken, it was interrupted under the guise of intellectual property rights and testing for reproducibility. It was falsely characterized as not being so – i.e., as fraud! After we presented the above clarifying results generated in 1994 at the Baylor College of Medicine at the GSA meetings of 2011 the assault on us was redoubled to say the least! The results provided an obvious and novel epigenetic mechanistic explanation for those of our data that were impugned in our *MBE* publication. The truth is that neither the 'Scientist' nor many in the field of Mouse Genetics had the ken to address the Science – Evolutionary Genetics of Natural Hybrid Zones and Covalently or Tightly Bound Proteins (TBP) shifting  $T_m$  of the DNA duplex that explained many of our results as well as those that we had identified in the literature and confirmed at the Baylor College of Medicine among other Research Institutions! Another more important illustration of this chasm was reflected by the attitude of a leader and senior Mouse Geneticist working in Sex Determination who did us the singular honor of visiting our Poster at a meeting of the Southeastern Society of Developmental Biology in 2001 in Asheville, NC. This leader simply failed to grasp the importance of a critical result to our work on the instability of the Y chromosome, namely in the dispensability of the Sex Determining (Testis Determining) gene in adult sex determination thus allowing us to detect a spectrum of deletions and rearrangements in this locus! Work begun in 1958 by Dr. Beatrice Mintz with mice that displayed somatic XX (95%)  $\leftrightarrow$  XY (5%) and testicular XX (90%)  $\leftrightarrow$  XY (10%) chimerism (Mintz, 1968; Singh et al., 1985) had confirmed this dispensability of the Y chromosome and thus of the *Sry* locus! This leader was dismissive of the first result and unaware of the second result and so implicitly of the importance of mutants to biology and the dispensability of the Y chromosome to Adult Male Sex Determination. What is more after having been enlightened they STILL resist the work with far-fetched claims. The LSINJ allows this work to be completed and protected.

To preserve the Public Interest, I had to fend off every manner of pressure coordinated in an assault that is still ongoing and that was brought to bear for largely sociopolitical, petulant, vindictive and vernal reasons! This involved among many other things, (1) Being kept out of, or destruction of jobs, papers and grants, (2) Isolation from or stringently controlled scientific interactions, (3) Hostile actions taken by many colleagues and even bystanders who were clearly recruited by intimidation, ingratiation and incitement, (4) The loss and suppression of any work on the Y chromosome by any method thus leaving the choice between this work and a livelihood which in turn destroyed relationships, and (5) The dual edged financial pressures of either not

having a salary or a minimal salary from 'Odd Jobs' and accumulating research expenses which magnified until I was forced into bankruptcy. I have never failed in my obligations, financial or otherwise, and so this was the ultimate lapse with all the associated consequences! I finally had a Myocardial Infarction last Christmas Day (2014)! These actions had been alluded to in a recent article on Cardiology that I had authored and identified as contributing to Stress recognized by Cardiologists as a Risk Factor for Myocardial Infarctions and elaborated in this link:

Leaders in Pharmaceutical Business Intelligence Funding, Deals & Partnerships: BIOLOGICS & MEDICAL DEVICES; BioMed e-Series; Medicine and Life Sciences Scientific Journal – <http://PharmaceuticalIntelligence.com> A Patient's Perspective: On Open Heart Surgery from Diagnosis and Intervention to Recovery – A New Day, a New Lease and Unfolding Questions! Guest Author: Ferez S. Nallaseth, Ph.D.

[PatPerDiaIntRec.PhInt.8.22.2015.pdf](#)

The LSINJ allows the work to be completed and published which again supports its mission! Over the last nearly 4 decades or more, to protect the Public Interest in our work, I (and to some extent my family, friends, and colleagues) have had to spend millions of dollars of personal funds! This, despite generating the concepts and data that secured an R01 Grant from the National Institutes of Health for this work, because most of it was used by the Principal Investigator for purposes other than for which it was funded. These expenses not only represented salaries and benefits that I had to forego but also hundreds of thousands of dollars on proactively made expenses, such as consumables, data protection investments, publications, equipment, conferences, living expenses and immeasurable credit card interest among other things! And so this LSINJ has been PERSONALLY funded! Already several papers, conference abstracts, editorials, and research work that emerged from the LSINJ have been contributed to Scientific Journals, Websites and Social Media and also presented at National and International meetings. Another series will be published in the near future! At least some of this leads to the protection of that part of our work which would otherwise be lost in the ongoing assault on it! This is in the Public Interest and so there can be no better justification for the existence of the LSINJ!

Over the decades, and despite immense barriers, our contributions to Science have gradually eroded the ideological resistance to it in the Public Domain by those with largely venal interests in its destruction. Many of these contributions either could not be made by Scientists at top Research Institutes or in trying to build on their publications I had shown, with some of it having been published, that prominent Scientists at 7 top Institutes, including at Harvard and MIT, had published papers in 6 sub fields of the Life Sciences, as well as in top journals – including Cell, Science, Nature and PNAS - that were either completely or mostly wrong! Furthermore, in my formative days I had been offered Postdoctoral Fellow positions at MIT (4 labs), Caltech (1 lab) and UCSF (1 lab) and so if I had opted for a traditional career, could have easily had the imprimatur of the 'Chosen and the Infallible' associated with these universities that is so useful for jobs in Science! However, this would have meant that an important body of work in the Public Interest that is now being completed at the LSINJ would have been lost. I went onto work at many good Research Institutes around the country, such as the Roche Institute of Molecular Biology, Baylor College of Medicine, in Houston, the Fred Hutchinson Cancer Research Center in Seattle and the Mount Sinai School of Medicine in New York, among others, where my Mentors and colleagues were initially supportive of our work on the Y chromosome. The work that emerged from these places is listed in the CV posted on my website:

Nallaseth FS. Life Sciences Institute of New Jersey, Belle Mead, NJ.

<https://sites.google.com/site/nallasethfs/home/pdf-documents>

Finally, it is my data on the Prenatal Diagnosis of Sickle Cell Anemia that are quoted by Nobel Laureate Jim Watson (co-discoverer of the structure of DNA and his colleagues), as the first time that a Direct Analysis of a Human Disease – Sickle Cell Anemia - by (Electro) Blot Hybridization with Probes generated by Recombinant DNA technology was contributed. They were not only the first time that the data were generated in our lab at the Medical College of Georgia, in Augusta and published in PNAS, but they also allowed us to beat out top scientific groups (labs) at Harvard and UCSF which were competing with us. I was the technician and the Principal Investigator was Dr. John Wilson who had held his Postdoctoral Fellow position in the laboratory of Dr. Sherman Weissman at Yale University.

Beyond all this there are many ancillary areas of interest in which I was forced to work 'to pay the rent'. However, that experience did widen my horizons in Science. Although, the hostile and venal intent was to block that part of our work on the Y chromosome which had the greatest impact on the Public Interest! I did so as a compromise and to stay away from what is now clear, as being the inevitable conclusion of this 4 decade conflict. Although I subscribe to the Academic Dictum that 'all knowledge is good' there are finite resources and time for each of us! Rather than fill up the literature with 'boutique science' which will not affect the current prospects on preempting universal causes of most, including intractable, diseases ensuring the survival of the body of work in the link below will make the largest and most vital of contributions to the Public Interest! This is facilitated by persevering in efforts that have most recently required the establishment of the LSINJ.

There are other serious but collateral problems that are developing and involve a major University on the East Coast. Thus far they seem to have become self-contained by the inexorable logic of the circumstances and are unlikely to cross the threshold of no return which represent minimal standards acceptable to any developed society or organization! Again the LSINJ was the only way to protect this body of work in addition to the ongoing long term areas of work which are posted on our website and in the link below!

The LSINJ preserves the Public Interest!

All of the above events, which represent a small fraction of the total number spanning nearly the last 4 decades, are fully documented and should the need arise, will be made available.

There are very few Professors or Research Institutes, who or which, have been forced into the position of having to relinquish as much as we have for as large an undertaking in the Public Interest. We have had to endure an assault that is still ongoing, to protect a body of work of an enormous magnitude of importance to the Public Interest! That Public Interest is represented in the survival of the LSINJ! One which can only grow in impact so please pardon what may seem like a very Public Indulgence!

To minimally appreciate the enormity of the Public Interest that is at stake a visit to the link below would be helpful! The article in it was only published in the *Journal of Molecular Biology* OMICs after more than 50 journals rejected it - some unabashedly reversing themselves even after acceptance and so obviously caving in to pressure! Even the Washington Post and the New York Times shied away from an excerpt -the former after a positive review and the latter immediately, which is not surprising given the educational background of some of its correspondents who cover the Life Sciences! A visit to the link below will provide an appreciation of the magnitude and nature of the undertaking at the LSINJ for the Public Interest:

Is There a Role for an Evolutionary Genetics Based Rational Health Policy In Global Biomedical, Health and

Economic Policies? Nallaseth. *J Mol Biol OMICS*. v3: 1.6.30.2014, (<http://dx.doi.org/10.4172/2168-9547.1000e118>)

It is clear that we will be judged harshly in History if we continue to lack the political will and ignore the relatively easily addressed claims of those millions who with an errant turn of the Genetic Dice become afflicted with intractable diseases that have pathological consequences worse than any Death Camp could inflict. They are the claims of those who are burdened with thousands, including the most intractable, of diseases and that cost the global community hundreds of trillions of dollars per year. The solutions to these massive Global, Biomedical, Health and Economic Policies have already been tested and shown to be viable by a combination of Evolutionary and Mouse Genetics with the full spectrum of OMICs. The current paradigm in the Biomedical Sciences perpetuates the partially effective and often ineffective intervention at the level of treatment of pathological consequences rather than addressing the Universal mutational cause of diseases.

I want to finish by thanking all of my mentors, colleagues, peers, friends and family without whose support this enterprise would have ceased to exist long ago! Some of them continued supporting us over the

decades and at great danger to themselves, their grants and their work, regardless of the disinformation that was directed at us! and I would also like to apologize to all on whom this intrusion has been inflicted! Please pardon the details in this article in which I dwell on myself – unintentionally and perhaps too much- and yet it is only the fraction of what has happened that is necessary and can be documented!

Finally, I do know a little History, of the monumental enormity of the past, of how much we owe even to those who were ordinary but did extraordinary things, and therefore as a matter of habit am reticent about promoting either myself or my contributions! However, I assure all who may be interested, that the circumstances are both exceptional and after 40 years of commitment to the scientific process which is predicated on conservatism and restraint, have been forced to take up the issue publicly! And in whichever quarters would counter the unscrupulous assault on our work for reasons that are largely venal and petulant! Therefore enabling the protection of the Public Interest in it - in the near and distant future!!

Very truly yours,

Ferez

Ferez S. Nallaseth, Ph.D.