

# On Asperger's Syndrome

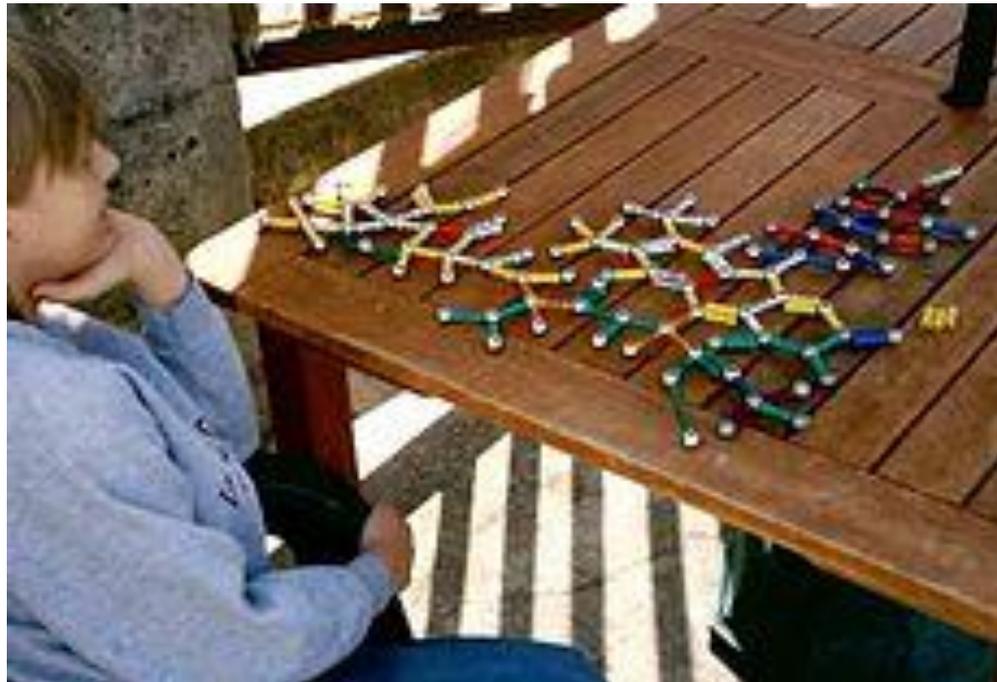
hyper-Norepi "Aspergian" aka *Aspergian Autist* and hyper-dopamine *Kannerian Autist* psychotypes in humans and animals

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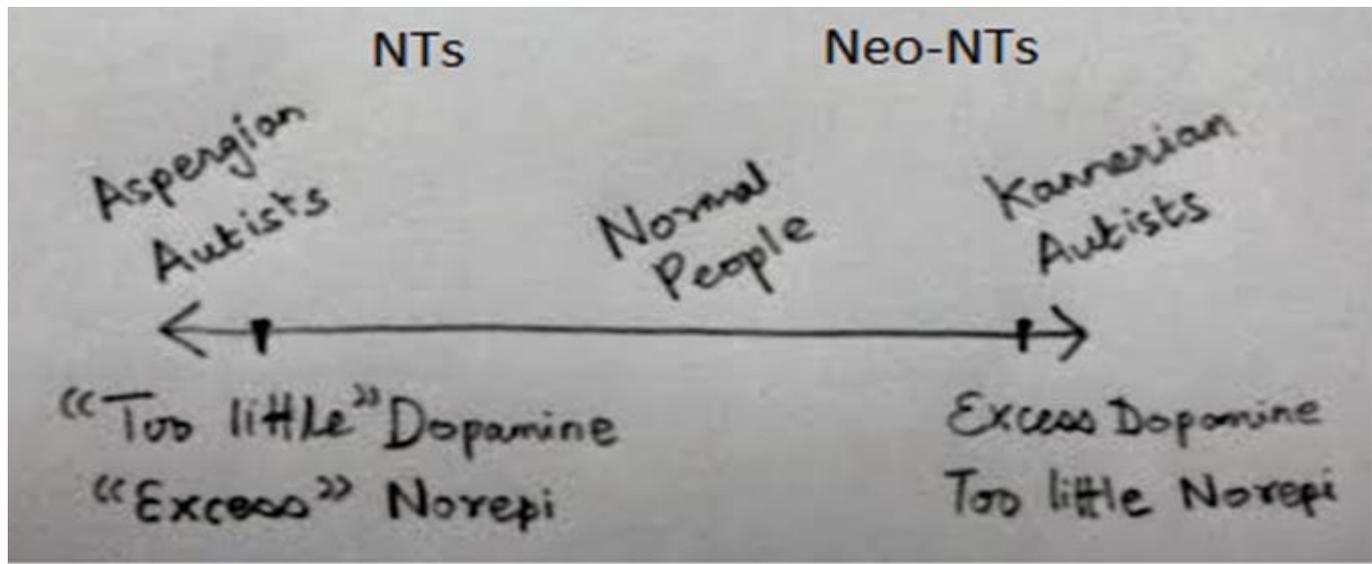
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# Introduction

- People with Asperger's syndrome usually display intense interests, such as this boy's fascination with molecular structure.



# Pictorial representation of the principal theory of this Thesis:



Serious risk of internal disease

right brain dominant

left brain dominant

Michel Van de Gaer of Belgium summarizes the latest updates about the popular left brain (**LH**) vs. right brain theory in his website : “Semmes (1968) asserted that the left hemisphere is **focally** organized [i.e. as we say, **textually**] and the right (RH), **diffusely** organized [**contextually**, that is]”.

He says: “Neurologists Gereon Fink of the University of Düsseldorf, Germany and John Marshall of Oxford, thought that the difference between the 2 hemispheres is in their style of working: “One thought and saw in wide-angle [that is, **saw the indirectly related data** i.e. **context**], while the other zoomed in on the detail [**the directly relevant data**, which can be called **text**]”.

a) Gaer: “To test this, the imaging laboratory at London's Institute of Neurology scanned the brains of people who were looking at a series of images called "navons" and asked subjects what they saw:

- Results: **Concentrating** on the small **F** activated areas on the **left hemisphere**.
- But “stepping back,” focusing on the **S**, fired areas on the **right hemisphere**.”



c) The dichotomy between 'Global input' and Local input' can be easily appreciated in the example of *auditory processing*. Gaer: “The difference between Left Hemisphere (LH) and Right Hemisphere (RH) is seen at the micro-anatomical level. Neurons spread information which favours more input from distant sources in the RH, and from closer sources in the LH.”

d) Gaer continues: “A striking finding in some people suffering right-brain disability is that they can understand the literal meaning of sentences, their left brain can still decode the words, but they can no longer get jokes or allusions. Asked to explain even a common proverb, such as "a stitch in time saves nine", they can only say it must have something to do with sewing. An intact right brain is needed to make the more long-range connections”. An intact right brain is needed to truly interpret reality, rather than just working around with meta-mugged beliefs.

“Right brain-bashing” is an old tradition, it seems. Brownell et al. say:

“Broca’s finding of relation between left hemisphere damage and abnormal speech set the stage for the battles of cerebral dominance”.

❑ Public domain commonly carries confused, misleading views on this topic:

- “*The right hemisphere is associated with unconscious awareness (in the sense it is not linguistically based)*”
- “*The left brain handles logic [the correct term is syllogic],*
- *The left brain handles “analytical thought,” science, intelligence and wisdom, and the right brain handles art*” (This is the no. 1 most common myth!)
- “The right brain is “female” ... the left brain is “male” [truly, right brain dominance is in natural (‘tomboyish’) females as well as Aspergian males. *Domesticated* females, as well as Neo-NT males, are more left brain-oriented.
- Saying this must not put one off; it’s easy to drag back the right brain and bring it into use

10 minutes of homework may be appropriate for some... Search the **dark black** terms on the internet, read for few minutes (also find the meanings of other related terms):

❖ “**Norepinephrine** is found more in Right **Brain Hemisphere**, **dopamine** more in Left Brain Hemisphere”. Generally, “**white matter** is found more in Right Hemisphere, **gray matter** is found more in the Left Brain Hemisphere” – of all sentences, this one is of the foremost importance.

# Clarifications of Meanings

- “Aspergian”, or “Aspergian Autist”, means the hyper-Norepic type of human (i.e. “Aspergian in the sense in which Hans Asperger meant it, if not the perverted meaning of the term “Aspergian” – see points 2 and 3)
  - Aspergians are to be differentiated from the hyper-dopaminergic **Kannerian Autists**
  - Examples of Kannerians aka *Kannerian Aspergians* aka “Aspergians” in a potentially misleading\* but broad sense of the term):
    - [Temple Grandin](#)
    - [John Eldar Robinson](#)
    - [Kim Peek](#)
- \* Some Kannerian Autists might resemble Aspergians in certain behaviors, and they may be called **Aspergians** or **Kannerian Aspergians** (which is almost paradoxical, so we can only rarely use the broad sense of the term Aspergian)

Important thumb rule: Dopamine is linked to dendrites and gray matter, Norepi is linked to Axons and white matter.

- The Aspergian aka **Aspergian Autist’s** brain contains lesser gray matter, and more white matter;
  - Since right brain is the bastion of the brain’s Norepi logistics? – Aspergians are RH-dominant
  - Lesser Dopamine, more Norepi, leads to [more Norepic happiness](#), freedom from [internal disease](#) etc.
  - The relatively short-lived, less white matter (or glia) and more gray matter-containing *Neo-Neurotypicals* (whose extreme variants are the Kannerian Autists) suffer depression and dementia.
  - Thus, we contrast:
    - *Proto-Neurotypicals*\* & *Aspergian Autists* - more white matter than gray matter
    - *Neurotypicals* - a balance of white and gray matter
    - *Neo-Neurotypicals* and Kannerian Autists - more gray than white matter
- \* in the sense of how humanity’s [brain size has shrunk by the size of a tennis ball in the last 20,000 years](#)

- “**Aspergians**” (in Hans Asperger’s (narrow) sense of the term) is a group – or rather grouping of people, known for having well-developed Axonic/[NLT-area-based](#) skills (*e.g.: logical talent, nonlinear aspect of EQ/ToM talent as in many Negros*), and weaker Dopaminergic skills... They are weak in [RQ](#) and **sylllogical faculty**.
- **Theory:** Aspergian Autists are hyper-Norepic, or, have a generally [Axonic](#) (more white-matter containing) brain characterized by greater dominance of the right hemisphere (and ‘B’ blood type?)
- **Proofs**
  1. **Proof 1:** More **Myelination** (coverage of cable by myelin sheath, “to expedite signal velocity”) is associated with ‘White matter’, i.e. **Axonic** mass-neuronal ideology (Axons are often myelinated).
    - So if development of **Myelination** is more in Aspergian Autists, it proves they are Hyper-Norepic
    - And indeed we see:-
      - a. In babies who develop Autism\*, “white matter bundles have more structural integrity than in normal babies” (Wolff et al.; Gao et al.) *\*Aspergian Autists are meant*
      - b. It is well-known that glia (glial cells) have a key role in myelination (are thus related to white matter). For this and other reasons, we can associate a hyper-glia neural ecology with an axonic neurostructural ideology, which is more if glia is more, which we observe in literature:
        - i. John Hopkins Dept. of Neurology: “Marked microglial activation observed in the cortical regions and white matter of Autists”
        - ii. The brains of Autistic (*e.g.: Einstein*) have a higher glia to neuron ratio (*Einstein had 73% more glia*).
          - » Einstein was famously Aspergian-type, as he “didn’t begin to speak until he was five years old”

# The generality of the split: hyper-GS vs. hyper-RS branching in humans - II 2

2. **Proof 2** might look for a relationship between Autism and the right hemisphere, which already is known as more Norepic\*/Axonic/white mattered.

\* There are higher levels of the neurotransmitter norepinephrine on the right and higher levels of dopamine on the left. There is more white matter (longer axons) on right and more grey matter (cell bodies) on the left (Rita Carter, "Mapping the Mind", Phoenix, London, 2004, Originally Weidenfeld and Nicolson, 1998).

a. "C. Gillberg (1983) found that "62% of the autistic children were non-right-handed compared with 37% of the controls." This finding was replicated by others". Since the right hemisphere controls the left hand, and left, the right hand -- this shows that the right brain is often dominant in Autists.

3. **Proof 3:** A similar proof likewise looks for a relationship between Autism and the right hemisphere's amygdala.

a. "In the autism group, significant functional connectivity clusters were found in the right amygdala" (Kleinhans)

b. Kleinhans et al., 2008 found that normal people had "significantly increased connectivity in the left amygdala compared to Autists."

4. Another proof characterizes certain neurostructures, like *insula*, as **largely RS-related** (see Part 10, [Old thesis](#)) and then goes on to argue that these are less developed in Autists, hence Autists are hypo-RS i.e. hyper-GS. Similarly Turner et al. find less quantitative cabling from Old Base areas whose quantitative expansion is RS-related (see Part 2):- "Atypically diffuse functional connectivity between caudate nuclei and cerebral cortex in autism"

5. Autists seem **generally less dendritic** (thus more Axonic/generative); for example, about the [highly dendritic purkinje cells](#), Autist cerebellums have "decreased Purkinje cells (Kemper et al., 1998; Bailey et al. 1998)."

❖ Hence Autistic brains are generally hyper-Norepic i.e. Axonic i.e. hypo-Dopaminergic

The very term **Autist**, as it has the root *autos* ("acting from or occurring within"), indicates self-generating thoughts (lacking quantitative reactions to stimuli)/hyper-GS nature – i.e., more intuitive rather than more observant (Kannerian Autists are the opposite). From the other direction, we see the same: creative ("generative") lifestyles involve (Aspergian) Autism... As Hans Asperger noted, "a touch of Autism is necessary for success in science or art."

# Psychological Problems that assail Left Brain-dominant type of people

- Abe et al.: “In deceiving interrogator, activation was detected in the left amygdala”.
- Blackmon et al. have provided “evidence for involvement of a left amygdala-orbitofrontal network in subclinical anxiety”. (This means the militantly conservative Neo-NT’s type of anxiety (for example, dislike of sexual intimacy), which is different from the Autist’s anxiety regarding evil tribal exploitative misbehavior routed through the social).
- Donegon et al.: “In a 2003 study, subjects with borderline personality disorder showed significantly greater left amygdala activity than normal control subjects.”
- Verplaetse et al.: “Reduced gray matter noted in pedophiles in the right amygdala”.
- Rodney Day and Stephen Wong speculated that "psychopaths, who are unempathic, callous, and emotionally shallow, would rely less on right-hemisphere-based decoding strategies." Instead, “they theorized, psychopaths rely more on the left hemisphere, which "uses a more verbal-analytic strategy."
- Daniel G. Dillon et al.: “Major Depressive Disorder was associated with weak right amygdala modulation by reappraisal on trials featuring negative pictures, and this deficit increased with increasing depression severity”; Polli et al.: “In humans, cerebral blood flow and metabolism in the amygdala, subgenual rostral anterior cingulate cortex, and orbitofrontal cortex of the left hemisphere are abnormally elevated in major depression, and left amygdala activity positively correlates with depression severity”; Sheline et al.: “depressed patients showed exaggerated left amygdala activity when interpreting emotions for all faces, and especially for fearful faces” (fear is useful to the AI....).

Why the mental problems of the left  
brain-dominant (Neo-NT) type of people?