SUPER AGE

How Your Friendships Are Tied to Your Cellular Age

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Your friendships, community, and emotional bonds may help your cells age more slowly, according to a new study.

You may already treat relationships as essential for love, joy, and meaning. We have often discussed how your connection with the people around you are correlated with **longevity**. Now, research suggests your social world can also shape your biology, literally. The stronger, richer, more sustained your social ties are over a lifetime, the more it appears you can slow how fast your cells "age."

That's not metaphor. It's **epigenetics**. Just as your habits, sleep, nutrition, and movement leave marks on your body, your relational life may leave marks on your genes' expression. The new research shows that *cumulative social advantage* maps onto slower ticking of molecular tests known as epigenetic clocks.

Strong Social Ties Slow Your Epigenetic Clock

The study, led by **Anthony D. Ong** and colleagues, analyzed data from over 2,100 adults in the long-running **MIDUS project.** They built a composite index called "cumulative social advantage" (CSA), which captures relational resources across life, including things like parental relationships, community engagement, emotional support, faith practices, and more.

When they tested CSA against biomarkers, several patterns emerged:

■ **Higher social scores correlated with slower epigenetic aging** on powerful methylation clocks like GrimAge and DunedinPACE. In other words, people with richer relational histories looked "younger" at

the molecular level.

■ A rich relational life is also linked to lower inflammation, especially lower levels of interleukin-6 (IL-6), a key pro-inflammatory molecule tied to cardiovascular, metabolic, and neurodegenerative disease.

Interestingly, there were no strong associations with overnight measures of stress hormones (e.g. **cortisol**, catecholamines), suggesting that its influence is more on long-term, regulatory systems rather than momentary stress response.

Other studies echo this pattern: positive social experiences predict slower epigenetic aging, while social strain, isolation, or loneliness are associated with **accelerated methylation aging**. **This study of twins**, for instance, hints that loneliness may push DNA methylation markers toward older profiles.

In short: your social life may help regulate not just your mood but your DNA.

Building Strong Relationships is a Longevity Practice

If your relationships can adjust your molecular clock, then they deserve a spot in your longevity plan. Below are research-informed strategies you can *service-design* into your life.

1. Make a map of your relational world

Give yourself a picture of your relationships in four domains:

- Foundational ties (parents, siblings)
- Community / group ties (neighbors, clubs, faith, volunteer groups)
- Friends / confidants
- Supportive meaningful networks (spiritual, purpose groups)

Note where you feel you have relationships of consistency, depth, and reciprocity. Notice gaps.

2. Plan micro-moments of connection

Relationships are experiential. Micro moments, or small, repeatable relational actions, can build inertia in

your connections. Here are some tips for curating these:

- A weekly check-in call with your closest friends
- A neighborhood walk with someone who might need a chat
- A shared ritual with a community group. Maybe a Sunday gratitude text thread
- Volunteering in your community in a regular role (once a week or every other week)

3. Strengthen peripheral ties

Community ties, casual connections, and service groups all serve as "outer ring" ties, buffering isolation and widening your relational net. The CSA index shows that breadth matters, not just depth. You don't have to be best friends to have a strong social connection. Find ways to widen your circles.

4. Embed connection in your routine

Everyone's busy, and it's easy for weeks to go by without connecting. Add relational triggers and scaffolds to your routines:

- "Once a month, I'll plan a 'connection retreat' where I get together with a group of my closest friends."
- "Before I open my email, I send one message to someone I care about."
- "On Tuesdays, I'll attend a small group or walk with one person."

And remember! Friendships aren't another longevity metric to track, and treating them that way misses the point. The real beauty of deep, lasting connection shows up in the feeling of belonging, of being seen, of helping each other through the good and the bad.

Strong friendships don't just buffer you in hardship; they invite you into more of yourself. They challenge you, hold you, delight you. They see your scars and your boldness. They make ordinary days richer. If your relationships leave a molecular trace on your biology, consider that a kind of tribute to their power.

As you invest in rituals, micro moments, and widening circles, remember: the goal is aliveness. The bonds that slow your epigenetic clock are also the ones that bring your life light, color, laughter, and solace. That is the alchemy.

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