Arteritz – A Creation by ZoooooZ Roland Zulehner

About the Character: Arteritz Arteritz is a unique and imaginative figure born from the creative mind of artist and author ZoooooZ Roland Zulehner. Described as "**Die Kunst, die aus der Erde wächst**" (the art that grows from the earth), Arteritz embodies a living fusion of nature, creativity, and vibrant expression. This character represents the organic emergence of art — rooted in the ground, reaching toward color and life, intertwining image and text into a single, breathing entity.

Arteritz is not merely a static figure but a symbolic presence: a growing, evolving form that reflects Zulehner's philosophy that art needs no reason — it simply dances, blooms, and leaves traces for others to follow.

About the Author: ZoooooZ Roland Zulehner ZoooooZ Roland Zulehner (born January 11, 1974, in Neresheim, Germany) is a contemporary German artist, painter, designer, and author known for his explosive use of color, abstract expressionism, and playful, emotional storytelling. Working primarily in acrylics on canvas, he creates vibrant, dynamic works that blend abstraction, portraiture, fantasy, and everyday inspiration.

Under his artistic alias **ZoooooZ**, he has built an international presence with a signature style that celebrates "**Dancing Colours**" and the belief that **"Art never needs a Reason."** His motto — *"Leave a trace I can follow"* — runs through both his visual art and written work.

Roland Zulehner lives and works in Heidenheim, Germany, often collaborating artistically with Mumzy Maria (forming the duo Mumzy & ZoooooZ). His paintings have been featured in exhibitions, online galleries (such as TRiCERA, Loupe Art, Fine Art America), and publications.

In addition to his visual art, Zulehner is an **author** who writes poetry, short texts, reflections, and experimental books — often intertwining words and images. His writing echoes the same vivid, free-spirited energy found in his canvases.

Artistic & Literary Philosophy

For ZoooooZ Roland Zulehner, art and writing are inseparable ways of living colorfully and consciously. Whether through brushstrokes or words, he invites viewers and readers to discover beauty in chaos, emotion in movement, and meaning without explanation. Arteritz is one of his most poetic manifestations — a figure that grows, transforms, and reminds us that creativity is alive, rooted, and unstoppable.

Connect with ZoooooZ Roland Zulehner

- Instagram: @roland_zulehner
- Official Website: www.zoooooz.de
- Facebook: Roland Zulehner / Zulehner
- Other platforms: Fine Art America, TRiCERA, ArtMajeur

"Art is at the heart of everything — from the way we move to how we prepare a meal."
— ZoooooZ Roland Zulehner

BioArt

BioArt

Country	International
Influences	Biotechnology, Life sciences, Contemporary art

BioArt (also spelled bioart or bio-art) is a contemporary art practice that integrates biology, living tissues, bacteria, organisms, and life processes as artistic mediums. Artists collaborate with scientific methods, including biotechnology, genetic engineering, tissue culture, and cloning, to create works in laboratories, galleries, or studios. BioArt often explores ethical, social, and philosophical implications of life sciences, blurring boundaries between art, science, and technology.[1][2]

Contents

What Makes BioArt

BioArt is distinguished by its use of living matter as both medium and subject, setting it apart from traditional art forms that rely on inanimate materials like paint or clay. Key characteristics include:

Integration of living systems: Artists manipulate biological processes, such as cell growth or genetic modification, to produce dynamic, evolving artworks that may change over time or require maintenance (e.g., feeding or environmental control).

Interdisciplinary collaboration: Bioartists often work in scientific labs alongside biologists, geneticists, or engineers, merging artistic creativity with empirical methods.

Provocation and critique: Works frequently challenge societal norms, questioning the ethics of biotechnology, the commodification of life, and human intervention in natural processes. This can evoke shock, humor, or reflection on themes like identity, evolution, and environmental impact.

Accessibility and engagement: By drawing from everyday biological concepts (e.g., DNA, microbes), BioArt democratizes complex science, inviting public discourse on issues like genetic engineering and climate change.[1][3][4]

These elements make BioArt a hybrid practice that not only creates aesthetic experiences but also contributes to scientific and cultural dialogues.

The Deeper Definition of BioArt

At its core, BioArt interrogates the essence of life, challenging distinctions between the organic and artificial, living and non-living. Deeper definitions emphasize:
Philosophical inquiry: It probes questions like "What constitutes life?" and "Can art create new forms of existence?" Artists treat genes, cells, and organisms as malleable materials, raising debates on authorship, agency, and the moral boundaries of creation.
Ethical and social dimensions: BioArt often critiques biotechnology's implications, such as genetic manipulation's potential for inequality or environmental harm. It highlights the "grotesque" beauty in nature while addressing controversies like animal rights and biosafety.
Expanded scope: Some definitions limit BioArt to works involving actual living forms, while broader interpretations include art inspired by biological imagery (e.g., medical scans) or speculative designs that simulate life processes. This fluidity positions BioArt within post-humanism, exploring hybrid identities in a biotech era.[5][6][7]
Eduardo Kac, who coined "bio art" in 1997, described it as art that "manipulates the processes of life," encompassing approaches from DNA to full organisms.[5]

History

BioArt emerged in the late 20th century amid advances in biotechnology. Precursors include:
Historical influences: Leonardo da Vinci's anatomical studies (15th–16th century) and Ernst Haeckel's scientific illustrations in *Kunstformen der Natur* (1904), blending art and biology.
Modern origins: In 1981, Peter Weibel's essay "Biotechnology and Art" introduced the term, envisioning biological systems as artistic expression. Joe Davis's *Microvenus* (1986) encoded a symbol into E. coli bacteria, marking the first molecular biology artwork.
1990s watershed: Eduardo Kac's "transgenic art" (1998) and his 1997 performance *Time Capsule* formalized the field. SymbioticA (University of Western Australia, founded 2000) became a hub for lab-based BioArt.[1][8][9]
By the 2000s, BioArt gained visibility through exhibitions and controversies, evolving to address global issues like sustainability.

Famous Artists

BioArt features pioneering artists who blend science and creativity:
Eduardo Kac: Known for *GFP Bunny* (2000), a fluorescent rabbit via genetic engineering, and *Genesis* (1999), translating biblical text into DNA.
Oron Catts and Ionat Zurr (Tissue Culture & Art Project): Created *Victimless Leather* (2004), a tissue-engineered jacket, and collaborated on Stelarc's *Extra Ear* (2003).
Stelarc: Performance artist with *Ear on Arm* (2006), a lab-grown ear implanted on his forearm, exploring human augmentation.
Joe Davis: Pioneer with *Microvenus* (1986), encoding art into bacteria.
Suzanne Anker: Author of *The Molecular Gaze* (2004); works visualize molecular biology.
Jalila Essaïdi: *Bulletproof Skin* (2011), GM spider silk in human tissue.
Amy Karle: *Regenerative Reliquary* (2016), 3D-printed scaffold for stem cells; *The Heart of Evolution?* (2019), redesigned heart.[2][3][10][11]

BioArt in the Now

Contemporary BioArt addresses pressing issues like climate change, sustainability, and social justice, often through eco-friendly biotech and digital integration. Recent developments include:

Environmental focus: Works like *Fermenting Futures* (yeast biotechnology for CO2 reduction) and *Wood Spirit—Amber Acid* (2020s collaborations).
Global exhibitions: Ars Electronica Festival (ongoing, hybrid arts awards); Beijing Media Art Biennale (2018: "Post-Life"); Centre Pompidou's *La Fabrique du Vivant* (2019); Mori Art Museum's *Future and the Arts* (2019–2020).
Emerging trends: DIY biohacking, NFTs of biological data, and collaborations tackling food insecurity or pandemics. Artists like Anna Dumitriu and Alex May explore microbial art for public engagement.[7][12][13][14][15]
BioArt continues to evolve, fostering interdisciplinary innovation and ethical discourse.

What is Biohacking?

Biohacking refers to DIY or self-directed experimentation to optimize human biology, performance, health, longevity, cognition, or physical capabilities. It ranges from simple lifestyle tweaks (e.g., intermittent fasting, cold exposure, nootropics) to advanced interventions (e.g., implanting RFID chips, gene editing via CRISPR kits, or self-administering peptides/hormones).
The term draws from computer hacking's ethos of open access, experimentation, and bypassing restrictions. Modern biohacking gained traction in the 2010s with the rise of quantified self-movement, wearable tech, and community labs (e.g., DIYbio.org). Famous figures include Dave Asprey (Bulletproof Coffee founder), Ben Greenfield, and Josiah Zayner (who popularized at-home CRISPR).
Current trends (as of 2026):

- AI-enhanced personalization (e.g., apps analyzing biomarkers for tailored protocols).
- Longevity focus: NAD+ boosters, senolytics, stem cell therapies.
- Mainstream adoption: Surveys show high percentages of people identifying as biohackers, with events like Biohackers World Conference (Los Angeles, March 2026), Longevity Fest, and BioFest Atlanta drawing crowds.
- Safety debates: From evidence-based hacks (sleep optimization, exercise) to risky ones (unregulated implants or gene therapies).

Connections, Overlaps, and Differences

BioArt and biohacking frequently intersect:

- Shared techniques and ethos: Both use biotech tools (CRISPR, implants, microbial engineering). Biohackers' DIY labs inspire bioartists, while bioart's speculative works influence biohacking's radical visions (e.g., body augmentation).
- Body as medium/site: Stelarc's *Extra Ear* (lab-grown ear on arm) blurs art and hacking. Tech tattoos or subdermal implants appear in both.
- DIY culture: Community bio labs (e.g., Genspace, Counter Culture Labs) host bioartists and biohackers, fostering "citizen science" and fringe experimentation.
- Critique and provocation: Both challenge institutional control over biology—bioart through conceptual critique, biohacking through practical defiance.

Key differences:

- Purpose: BioArt is non-utilitarian, focused on aesthetics, ethics, and discourse (e.g., provoking reflection on life commodification). Biohacking is pragmatic and goal-oriented (e.g., better sleep, longer life, enhanced cognition).

- Outcome: BioArt produces artworks (installations, performances, living sculptures). Biohacking produces personal results (health metrics, implants).

- Regulation and risk: BioArt often faces biosafety scrutiny in galleries; biohacking risks personal health or legal issues (e.g., unregulated gene editing).

- Audience: BioArt targets galleries/museums/academia; biohacking targets wellness communities, tech enthusiasts, and longevity seekers.

Ethical Considerations

BioArt, by its nature of manipulating living organisms, cells, tissues, genetic material, and entire life processes as artistic media, raises profound and multifaceted ethical questions. These extend beyond traditional art ethics (such as authorship or cultural sensitivity) into bioethics, biosafety, biosecurity, animal welfare, environmental risk, and the moral status of life itself.[16][17]
Key concerns include:

- Biosafety and Biosecurity: The use of genetically modified organisms (GMOs), bacteria, viruses, or synthetic biology techniques poses risks of accidental release into the environment or misuse for harmful purposes. Even non-pathogenic organisms could disrupt ecosystems if containment fails. Artists must navigate strict laboratory protocols, institutional biosafety committees, and international guidelines (e.g., Cartagena Protocol on Biosafety). Public fears of "playing God" or unintended consequences amplify these debates.[16]

- Animal Welfare and Moral Status of Living Beings: When BioArt involves vertebrates, invertebrates, or tissue cultures derived from animals, questions arise about suffering, consent (impossible for non-humans), and instrumentalization of life for aesthetic ends. Critics argue that creating or displaying living artworks denigrates organisms or treats them as mere materials. Groups like PETA have criticized BioArt for exploiting animals, drawing parallels to broader animal experimentation debates.[18]

- Human Enhancement and Anthropocentrism: Works involving human cells, tissues, or performance (e.g., implants or genetic self-modification) challenge notions of bodily integrity, identity, and the boundaries between natural and artificial life.

- Broader Biopolitical Implications: BioArt often critiques commodification of life, unequal access to biotechnology, environmental impacts of genetic engineering, and the hubris of technological fixes for complex problems.

Notable controversies illustrate these tensions:

- Steve Kurtz and Critical Art Ensemble (2004): In May 2004, SUNY Buffalo professor and Critical Art Ensemble member Steve Kurtz was investigated by the FBI on suspicion of bioterrorism after harmless bacteria cultures (Serratia marcescens and Bacillus atrophaeus) were found in his home following his wife's natural death. The case shifted to mail and wire fraud charges related to improper acquisition of the cultures from the

American Type Culture Collection. Kurtz was cleared of all charges in 2008 after a four-year legal battle that highlighted post-9/11 biosecurity paranoia, chilled artistic expression involving biotechnology, and sparked global protests from artists and scientists.[19][20]

- Animal Rights Criticisms: PETA and other groups have targeted BioArt involving animals or animal-derived materials, arguing that such practices prioritize artistic gain over welfare. Eduardo Kac's *GFP Bunny* (2000), featuring a genetically engineered fluorescent rabbit, drew protests from animal rights advocates and conservatives concerned with genetic alteration.[18]

- Release and Environmental Risks: Projects like Critical Art Ensemble's *Transgenic Bacteria Release Machine* (involving crippled E. coli) deliberately provoked debates on GMO release, while others raise concerns about unintended ecological impacts or dual-use potential.

These controversies often lead to censorship, funding challenges, or public backlash, yet many BioArt practitioners argue that their work ethically provokes necessary reflection on biotechnology's societal role. Scholars emphasize context-specific ethics: validating problematic applications through audience impact, emphasizing responsibility, and distinguishing BioArt from purely scientific or activist biotech.[16][21]
Ongoing discourse calls for interdisciplinary frameworks blending bioethics, art theory, and policy to address these issues responsibly.

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See also

Biotechnology Genetic engineering Contemporary art

References

Jump to: navigation, search