Leonhardt Ventures The Engine of Innovation

2023 Annual Report



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Letter to Stakeholders

Dear Stakeholders,

2023 was another great year of progress across our Leonhardt Ventures portfolio! I am extremely proud of our team and very grateful to all the stakeholders that had faith to invest time or their hard earned funds with us. We believe we have with your help developed the ultimate product portfolio for extending holistic healthspan of people.

Progress to Date Summary

1. OVER 700 PATENT CLAIMS

issued, pending, published, licensed, optioned or in process.

- 2. Major patent claims issued for bioelectric klotho modulation, klotho expressing MSCs, inflammation management, bioelectric cancer treatment, skin regeneration, stem cell homing, myogenesis, valve regeneration, hair regeneration, blood pressure modulation, kidney regeneration, bladder regeneration, heart regeneration, arteriogenesis, nerve regeneration and more.
- **3** Patents filed on a whole suite of bioelectric aging reversal protein expressions supported with data including sestrins, sirtuins, LIM, follistatin, BDNF, GDF10, GDF11.
- 4 Clinical data gathered on 28 products (see listing below) so far. Running about 80% success across all studies with no serious adverse events reported to date.

5. OVER 4,000 LAB EXPERIMENTS

completed with extensive data gathered in our own R&D labs.

- 6. Peer reviewed data published on numerous products and bioelectric protein expressions.
- 7. Winner of Allergan Abbvie Golden Passport Competition for medical aesthetics innovations.
- 8. Finalist for Octane Technology Award <u>https://leonhardtventures.com/howard-leonhardt-finalist-for best-technology-ceo-of-the-year-award-orange-county-hosted-by-octane/</u>

9. 10 NEW PRODUCTS at full commercialization stage

with supporting FDA clearances and a dozen more coming in the pipeline in 2024! Since 1986 over 700,000 patients have been treated with Leonhardt inventions.

- 10. Set to open up 8 locations of our own branded Lionheart Longevity & Wellness MedSpas www. lionheartlongevity.com featuring our patented technologies in 2024. Technology product (ErectiStim, OrthoStim, SkinStim, HairCell, BodStim etc) stakeholders receive 8% royalty on full retail price sales and 5% royalty on discounted sales.
- 11. We officially entered the \$101 MILLION XPrize competition for HEALTHSPAN extension <u>https://www.xprize.org/prizes/healthspan</u>
- 12. Commercial sales web site is up and running Lionheart Health <u>www.lionhearthealthstim.com</u>



In the News....

- Allergan Abbvie (\$268 billion valuation) post on our Golden Passport Award > <u>https://www.linkedin.com/posts/allergan-aesthetics_through-our-support-of-lionheart-health-activity-7141157426929610752-TPU-/</u>
- 2. University Lab Partners Press Release on our Golden Passport Award > https:// www.prnewswire.com/news-releases/university-lab-partners-announces-lionheart-health-asthe-winner-of-golden-passport-pitch-competition-to-accelerate-aesthetics-start-ups-30201184-9.html
- 3. LSI Emerging Medtech 2023 Presentation on Lionheart Health, Inc. > https://youtu. be/XfzXNTcI0Ac?si=1EtJxcwA4xDDFpJG
- **4. Longevity Technology Article on BodStim TM >** <u>https://longevity.technology/news/</u> bodstim-taking-longevity-wearables-to-the-next-level/
- 5. MedTech Outlook Featured Article on BioLeonhardt Heart Regeneration > https://www.medicaltechoutlook.com/magazines/November2022/Medical_Device_Startups/
- 6. California Business Journal Article on BodStim TM > https://calbizjournal.com/bodstim-suits-up-to-revolutionize-fitness-and-shows-significant-promise-for-enhancing-longevity/
- 7. Article on Klotho, KlothoYears and BodStim > https://longevity.technology/news/klotho-the-protein-that-could-extend-your-healthspan-and-lifespan/#:~:text=The%20tech%20 involves%20precise%20bioelectric,volumes%20of%20the%20Klotho%20protein
- 8. Article on Aging Reversal Patent Filings Leonhardt > <u>https://longevity.technology/</u> news/leonhardt-ventures-and-lionheart-health-file-patent-for-bioelectric-control-of-antiagingprotein-expression/
- 9. OC Talk Radio Interview on Lionheart Health, Inc > <u>https://www.youtube.com/live/</u> <u>qKQfJvrvj7o?si=jfeSvZ-JfaQLumXg</u>
- **10. Leonhardt Ventures Sept. 2023 Video Update >** <u>https://www.youtube.com/</u> watch?v=G07tNb6GrBU&t=473s
- 11. LSI Emerging Medtech Summit Leonhardt's Launchpads Accelerator Presentation > https://youtu.be/TzX61nkGHSw?si=IZ73qrJt4N_OL5XY
- 12. Video interview Howard Leonhardt Red Carpet LSI Emerging Mectech Summit > https://youtu.be/UAb6zCy4MdA?si=dFfte_RiSWMbXpc4

2023 Finances Review

Early Look at Year End Preliminary Numbers

R&D & Startup Development spending in 2023***

- Cal-X Stars Business Accelerator, Inc.
 operating Leonhardt's Launchpads = \$835,660.23
- Leonhardt Ventures LLC = \$1,697,711.45
- Second Heart Assist, Inc = \$4,190,000.00
- OrthodontiCell, Inc. = \$76,479.65
- Lionheart Heath, Inc. = \$442,286.48
- Valvublator, Inc. = \$5,000.00

Grand Total Funded in 2023 Across Portfolio **= \$7,247,137.8**

*** Totals are cash only preliminary numbers and do not include any services paid for in shares or share options or other accounting adjustments. Accounting teams should have final fully adjusted year end financials by the end of the 3rd week of January.



Leonhardt Patents and Patents Pending Published > <u>https://patents.justia.com/</u> inventor/howard-j-leonhardt

Schuler Patents and Patents Pending Published > <u>https://patents.justia.</u> <u>com/inventor/eleanor-schuler</u>

Patent Licenses by Scope > <u>https://</u> leonhardtventures.com/leonhardtventures-llc-patent-licenses-2022/

Klotho Expressing MSCs > <u>https://patents.</u> google.com/patent/W02016135295A1/en

Note - Not all Leonhardt and Schuler patents are licensed to current portfolio holdings. For a detailed list specific only to our current porfolio please email us at **howard@leonhardtventures.com**

Key Patents Listing by Main Purpose of Use

Main Purpose	Issued U.S. Patents	Patents Pending	Protein Expressions
Stem Cell Homing via SDF1 and PDGF	7,483,749 10,646,644 10,960,206	20210236817	SDF1, PDGF
Muscle Regeneration (Myogenesis)	7,483,749 8,308,708 10,646,644, 10,960,206 11,110,274 11,433,231 11,471,686	20220023623 20220226643 20210236817 20210228870 20200000709 20230133737 20220409894 20220370791 20180037868 20110098783 20050288732 20050288732 20050251061 20040260360 20140350637 20120136412	SDF1, PDGF, klotho, follistatin, S100A, sonic hedgehog, BMP9, IGF1, EGF, PRF, bioelectric stimulator, pump, biologics composition, stem cell competition, collagen, elasticity, inflammation reduction, klotho expressing MSCs
Improving Circulation (Arteriogenesis)	8,308,708 10,646,644 10,960,206 11,052,247 11,110,274 11,471,686	2020000709 20220409894 20180037868	VEGF, SDF1, PDGF, eNOS, HIF1a, EGF, klotho, BDNF, inflammation reduction, klotho expressing MSCs
Nerve Regeneration	10,646,644 10,960,206 11,433,231 11.110,274 11,471,686	2020000709 20200324106 2022023623 20220226643 20220370791 20210236817 20230071154 20230133737 20180037868	Sonic hedgehog, LIM muscle, IGF1, SDF1, PDGF, BMP9, klotho, BDNF, GDF10, GDF11, VEGF, klotho expressing MSCs
Skin Regeneration	10,646,644 10,960,206 11,052,247 11,110,274	2020000709 20210228870 20210339018 20200324106 20230133737 20180037868	COL17A1, Stem Cell Homing, Klotho, Tropoelastin - elasticity, GDF10, EGF, collagen, inflammation reduction, klotho expressing MSCs
Sexual Health including Erectile Dysfunction and Testosterone	8,897,877 10,646,644 10,960,206 11,110,274 11,433,231 11.471,686	2020000709 20190125932 20200324106 20210228870 20210136817 20220023623 20220370791 202301133737 20220226643 20220409894 20230071154 20180037868	Stem Cell Homing SDF1 and PDGF, circulation VEGF, muscle regeneration, nerve regeneration, brain path connections, eNos, elasticity, HIF1a, sonic hedgehog, LIM muscle, klotho, testosterone, BDNF, GDF10, klotho expressing MSCs
Hair Regeneration	10,646,644 10,960,206 11,052,247 11,110,274	20200000709 20210228870 20210339018 20200324106	COL17A1, Stem Cell Homing SDF1 PDGF, circulation, inflammation reduction, RANKL, BMP9, PRF, Sonic hedgehog, klotho expressing MSCs

		20230133737	
		20230133737 20180037868	
Blood Pressure	6,957,106	20190022396	
Modulation	6,681,136	20210236817	
	10,960,206	20040236238	
	11,471,686	20030216791	
	11.433,231		
	11.167,141		
Diabetes Management	10,646,644	20230191128	klotho expressing MSCs, FABp4 down
-	10,960,206	20230071154	regulation, klotho up regulation,
	11,471,686	20210236817	BDNF
	11,110,274	20220409894	
		20180037868	
		20230133737	
Bladder Health	10,646,644,	20220023623	Muscle regeneration, brain
	10,960,206	20220226643	connections, nerve regeneration,
	11,110,274	20210236817	stem cell homing, elasticity
	11,433,231	20210228870	restoration, klotho, S100a, follistatin,
	11,471,686	2020000709	IGF1, sonic hedgehog
		20230133737	
		20220409894	
		20220370791	
		20180037868	
Manufal II. alab	10 646 644	20050113879	Champion CDE4 DDC5
Mental Health	10,646,644	20210236817	Stem cell homing SDF1 PDGF,
	10,960,206	20220409894	improved circulation, BDNF, GDF10,
	11,110,274 11,433,231	20230071154 20230133737	Serotonin, Sirtuins, Sestrins, NANOG, klotho
	11,471,686	20230133737	KIGEIIO
Joint Health –	11,471,686	20220370791	Klotho, BMP9, Follistatin, S100a,
Osteoarthritis	11,433,231	20220370791	eNOS, HIF1a, Stem cell homing,
Osteourtinitis	11,110,274	20220226643	Inflammation reduction, improved
	10,960,206	20220023623	circulation, sonic hedgehog, GDF10,
	10,646,644	20200324106	Sirtuins, Sestrins, NANOG, COL17A1,
	-,,-	20210228870	bioelectric enhanced PRF, COL17A1,
		20210236817	BDNF, VEGF
		2020000709	
		20210236817	
		20230133737	
		20230071154	
		20220409894	
		20220370791	
Bone Density Health	10,646,644	2020000709*	OPG, BMP9, Klotho Sestrins, Sirutins,
	10,695,563	20200330753	Nanog, Bioelectric enhanced PRF
	10,960,206	20200330759	
		20210228870	
Cancer	11,691,007	20210236817	Custom tumor reading and treatment,
	11,185,691	20200330759	changing surface proteins and charge
	11,471,686	20180037868	to illicit an immune response, re-
	11,110,274	20140228910	programming cancer cells, starving
	10,960,206	20170259073	tumors of blood supply, OPG, klotho,
	10,646,644	20150313537	sestrins, sirtuins, NANOG, organ
	9,707,403	20150231243 20110130754	regeneration after tumor eradication, klotho expressing MSCs
	9,636,507 9,492,478	20110130754 20100286689	KIOLIIO EXPLESSIIIR IVISUS
		20100280089	
	9,440,083 9,295,835		
	9,032,964		
	9,032,964 8,831,738		
	8,656,930		
	8,315,712		
	0,010,712		

	1		
Kidney Health	10,646,644	20200000709	Klotho, klotho expressing MSCs,
	10,960,206	20200389820	inflammation reduction, stem cell
	11,110,274	20210236817	homing
	11,471,686	20230133737	
	11.446,488	20230071154	
	11.433,231	20220409894	
		20220226643	
		20180037868	
Gut Microbiota Health	11,471,686	20210236817	Klotho, bioelectric stimulator,
	11,110,274		inflammation reduction
	10,960,206		
Aging Reversal –	11,471,686	20220226643	Klotho, sestrins, sirtuins, NANOG,
HealthSpan Increase	11,433,231	20220152195	follistatin, GDF10, inflammation
	11,185,691	20210236817	reduction, stem cell homing,
	11,167,141	20210228870	improved circulation, blood pressure
	11,110,274	20200000709	modulation, gut microbiota health,
	11,052,247	20180037868	immunity strength, bioelectric
	10,960,206	20190125932	enchanced PRF, klotho expressing
	10,646,644	20230191128	MSCs, joint health, BDNF, BMP9,
	11,466,488	20230133737	immunity strength
	11,433,231	20230071154	
	11,154,238	20220409894	
		20220370791	
		20220226643	
		20220152195	
		20220023623	
		20210353223	
		Patent applications	
		have been filed for	
		sirtuins, sestrins,	
		NANOG, LIM	
		Muscle that have	
		not been published	
1 1 01 11	44 440 074	yet.	
Immunity Strength	11,110,274	20210236817	
	10,960,206		
	11,471,686		





Portfolio Key Clinical Studies or Post Market Evaluations through 2023 that enrolled patients and gathered valuable data...

PressureStim [™] http://www.pressurestim.com KidneyCell [™] <u>http://www.kidney-cell.com</u> BladderCell [™] <u>http://www.bladdercell.com</u> B-Alive [™] <u>http://www.b-alive.com</u> BodStim [™] <u>http://www.bodstim.com</u> KlothoYears [™] <u>http://www.klothoyears.com</u> **EyeCell** [™] <u>http://www.eye-cell.com</u> SkinStim [™] <u>http://www.skin-stim.com</u> **ErectiStim** [™] http://www.erectistim.com Lionheart HTM EMPower [™] <u>https://htmeletronica.com.br/en/produtos/25818/</u> Lionheart HTM Acrus [™] <u>https://htmeletronica.com.br/en/produtos/acrus-3/</u> Lionheart HTM Stimulus Face Maxx [™] https://htmeletronica.com.br/ en/produtos/stimulus-face-maxx-facial-multi-therapies-device/ Lionheart HTM StimHair [™] https://htmeletronica.com. br/en/produtos/stim-hair-trichology-device/ Lionheart HTM Sonic Compact Maxx [™] <u>https://htmeletronica.</u> com.br/en/produtos/sonic-compact-maxx-3/ Lionheart HTM CriuSculpt [™] https://htmeletronica. com.br/en/produtos/criusculpt-en/ HairCell [™] <u>http://www.haircellstim.com</u> **OrthoStim**[™] <u>http://www.ortho-stim.com</u> SpineStim [™] <u>http://www.spine-stim.com</u> TestiStim [™] <u>http://www.testistim.com</u> BreatheStim [™] http://www.breathestim.com DepressiStim [™] <u>http://www.depressistim.com</u> InStim [™] <u>http://www.instimcell.com</u> Stem Cell Bra [™] <u>http://www.stemcellbra.com</u> Second Heart Assist [™] http://www.secondheartinc.com DentaCell [™] <u>https://dentacellaccelerator.com/</u> OrthodontiCell [™] <u>http://www.orthodonticell.com</u> ImplantStim [™] <u>http://www.implanstim.com</u> **RegenaLung**[™] CovdiStim <u>https://leonhardtventures.com/regenalung/</u> VascuStim [™] <u>https://vascustim.com/</u>

Development Stage

Pro

Leonhardt Ventures LLC product pipeline update with early 2024 stage of development...

Pre-Clinical

Heart & Cardiovascular

BioLeonhardt LTP* http://www.bioleonhardt.com - total heart regeneration Vavublator, Inc. http://www.valvublator.com - heart valve regeneration AortaCell LTP https://leonhardtventures.com/aortacell/ - aorta regeneration BioPace LTP https://bio-pace.com/ - biological pacemaker VibroCell LTP https://leonhardtventures.com/vibrocell/ - vibrational blood clot and plaque prevention

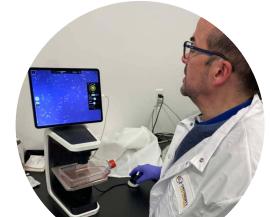
* Leonhardt led team previously completed and published Pilot, Phase I, Phase II and Phase II/III clinical studies with one time injection of muscle stem cells. New round of studies utilize klotho expressing MSCs, muscle stem cells, bioelectric enhanced PRF, amnio fluid, adipose stromal fraction, Wharton's Jelly, selected exosomes and nutrient hydrogel delivered daily via under skin re-fillable infusion pump and supported by implanted bioelectric stimulator with patent signals for stem cell homing, muscle regeneration, arteriogenesis and inflammation modulation.

Brain

CerebraCell LTP https://cerebracell.com/ - brain regeneration stroke TBI recovery

Major Organ Regeneration

PancreaCell LTP https://leonhardtventures.com/ pancreacell/ - Pancreas regeneration EarCell LTP https://ear-cell.com/ - Hearing regeneration LiverCell LTP https://livercellstim.com/ - Liver regeneration RegenaLung LTP https://leonhardtventures.com/regenalung/ - Lung regeneration BioLeonhardt Whole Body LTP https://leonhardtventures.com/ bioleonhardt-whole-body/ - Whole body regeneration



Clinical Phase I Pilot Stage

Heart & Cardiovascular

Second Heart, Inc. https://secondheartinc.com/ - circulatory assist aortic stent

Brain

AddictiStim LTP http://www.addictistim.com - Bioelectric addiction treatment TremorStim LTP https://tremorstim.com/ - Bioelectric essential tremor control Second Brain LTP https://secondbrainstim.com - Bioelectric gut microbiota health management

Cosmetic & Personal Care

TestiStim LTP https://testistim.com/ - Bioelectric testosterone management ArchStim LTP https://archstim.com/ - Bioelectric arch expansion

Major Organ Regeneration

InStim LTP https://instimcell.com/ - Bioelectric
 inflammation management (bowel disorders)
 BodStim D - http://www.bodstim.com - Bioelectric stimulation for diabetes management
 KlothoPod ™, KlothoPatch ™ and Klotho Implant ™ - Bioelectric
 aging reversal technologies based on klotho

Cancer

CancerCell LTP https://cancercellinc.com/ - Bioelectric, klotho and biologics cancer treatment BodStim C - http://www.bodstim.com - Bioelectric suit cancer tumor suppression

Clinical Phase II Pivotal

Heart & Cardiovascular

VascuStim LTP https://vascustim.com/ - Diabetic ulcer healing and lower limb ischemia PressureStim LTP https://pressurestim.com/ - Bioelectric blood pressure modulation BodStim HF - http://www.bodstim.com - Bioelectric stimulation for heart failure recovery

Brain

DepressiStim LTP https://depressistim.com/ - Bioelectric depression treatment MemoryStim LTP http://www.memory-stim.com - Bioelectric memory enhancement SpineStim LTP https://spine-stim.com/ - Bioelectric spine injury recovery pain management

Major Organ Regeneration

OrthoStim LTP https://orthostim.lionhearthealthstim.com/ - Bioelectric and biologics joint recovery BladderCell LTP & B-Alive https://bladdercell.com/ -Bioelectric and biologics bladder recovery KidneyCell LTP https://kidney-cell.com/ - Bioelectric and biologics kidney regeneration EyeCell LTP https://eye-cell.com/ - Bioelectric vision regeneration BodStim AGE http://www.bodstim.com - Bioelectric aging reversal by biomarkers



Commercialization Stage

He BodStim LTP* - http://www.bodstim.com - Bioelectric exercise enhancement for muscle and health ErectiStim by MyoStim ED LTP - http://www.erectistim.com - Bioelectric and biologics male sexual health SkinStim ™ http://www.skin-stim.com - Bioelectric and biologics skin regeneration HairCell ™ http://www.haircellstim.com - Bioelectric and biologics hair regeneration OrthoStim ™ http://www.ortho-stim.com - Bioelectric and biologics joint health BioPRF ™ http://www.bio-prf.com - Bioelectric enhanced PRF biologics KlothoYears http://www.klothoyears.com - Klotho blood test service (BETA STAGE LAUNCH)

*BodStim includes Onnafit with BodStim, SlimPlus with BodStim, WiemsFit with BodStim and BodStim Pro TM.

Commercialized by Lionheart Health, Inc. http://www.lionhearthealthstim. com with 8% royalty on full price sales and 5% royalty on discounted sales going to product technology stakeholders.

Lionheart Health, Inc. Target Goal Capital Raising Plans

2023 - \$3 million term sheet received Dec. 2023 at \$27 million pre-money valulation.
2024 - \$20 million at target valuation \$60 million
2025 - \$200 million post roll-up of key suppliers and medspas
at target valuation \$780 million hopefully via an IPO.

All above at no dilution to technology platform royalty receiving stakeholders ie; SkinStim, HairCell, ErectiStim by MyoStim ED, OrthoStim, Stem Cell Bra, TestiStim, DepressiStim, Second Brain, BladderCell, PressureStim etc.

Distributed products

Vivace RF Microneedling - https://www.realself.com/nonsurgical/ vivace - Radio frequency micro needling Saebo Stimulators - http://www.saebo.com - Bioelectric stimulators for stroke recovery and more Axiobionics http://www.axiobionics.com - Bioelectric stimulators for pain and inflammation relief Axolotl Biologix - http://www.axolotlbio.com - Amnio fluid membranes for wound healing and more HTM Electronics MedSpa Products* - https://htmeletronica.com.br/wpcontent/uploads/2022/05/Catalogo_2022_Atualizado_Ing.pdf HTM Sports Medicine Physio Therapy Products* - https://htmeletronica.com.br/ wp-content/uploads/2023/05/Catalogo-Fisio-2023-Ing_compressed.pdf KlothoSkin ™ - https://klothoskin.com/ Regen Aesthetics Beauty - https://regenaesthetics.beauty/ Revivv Hair Serum - https://revivv.co/ ElectroGear Healables - http://www.electrogear.com - Microcurrent healing wearables

*HTM products are pending FDA registrations in process under Lionheart Health, Inc. name. Also we believe forward we will improve the performance of a number of these products by adding our patented bioelectric signaling sequences for controlled protein expressions.

We look forward to 2024 being a breakthrough year with heightened focus on commercialization of key products and further development of our healthspan extension technology platform.



Sincerely Yours, *Howard J. Leonhardt Executive Chairman & CEO*

Lionheart Health, Inc. Leonhardt Ventures LLC 1 Kent Court Mission Viejo, CA 92694 http://www.leonhardtventures.com http://www.lionhearthealthstim.com http://www.lionheartlongevity.com

R&D Lab Leonhardt's Launchpads powered by Cal-X Stars Business Accelerator, Inc. 5270 California Avenue Irvine, CA 92617