

# Effect of Healing Energy on Human DNA In-Vitro

Glen Rein



**SOCIETY  
FOR  
SCIENTIFIC  
EXPLORATION**

1  
00:00:09,430 --> 00:00:06,470

[Music]

2  
00:00:12,709 --> 00:00:09,440

it's an honor to be here at this um

3  
00:00:15,749 --> 00:00:12,719

meeting with the sse and the pa i have

4  
00:00:16,630 --> 00:00:15,759

spoken in the past at both conferences

5  
00:00:18,870 --> 00:00:16,640

but

6  
00:00:20,550 --> 00:00:18,880

my first joint meeting

7  
00:00:22,790 --> 00:00:20,560

and i

8  
00:00:24,630 --> 00:00:22,800

i'm going to talk about a topic today

9  
00:00:26,390 --> 00:00:24,640

that i have talked about in the past but

10  
00:00:28,310 --> 00:00:26,400

it's been like at least 10 years since i

11  
00:00:31,830 --> 00:00:28,320

presented my work

12  
00:00:33,190 --> 00:00:31,840

on dna and its response to subtle

13  
00:00:33,990 --> 00:00:33,200

energies

14

00:00:38,069 --> 00:00:34,000

i

15

00:00:40,389 --> 00:00:38,079

uh

16

00:00:42,389 --> 00:00:40,399

the official title then i added a

17

00:00:44,470 --> 00:00:42,399

subtitle called anomalies in subtle

18

00:00:46,470 --> 00:00:44,480

energy research and if you stick to the

19

00:00:49,510 --> 00:00:46,480

very end i have a list of all the

20

00:00:51,350 --> 00:00:49,520

anomalous findings that

21

00:00:52,470 --> 00:00:51,360

have occurred as a result of all this

22

00:00:54,389 --> 00:00:52,480

research

23

00:00:57,510 --> 00:00:54,399

so hang in there this is my contact

24

00:01:00,069 --> 00:00:57,520

information and i want to start

25

00:01:02,869 --> 00:01:00,079

by giving you an outline of what i'm

26

00:01:04,390 --> 00:01:02,879

going to talk about so um i've done a

27

00:01:07,190 --> 00:01:04,400

lot of research with healers and how

28

00:01:09,030 --> 00:01:07,200

they affect dna so we'll start with what

29

00:01:11,350 --> 00:01:09,040

i call direct effects

30

00:01:14,630 --> 00:01:11,360

that is to say the energy

31

00:01:18,230 --> 00:01:14,640

emitted from these healers

32

00:01:21,190 --> 00:01:18,240

is directed at a a bile

33

00:01:24,310 --> 00:01:21,200

of dna with with water

34

00:01:27,670 --> 00:01:24,320

and measured various um

35

00:01:30,630 --> 00:01:27,680

properties of the dna whether the dna is

36

00:01:32,310 --> 00:01:30,640

purified or whether the dna is in a

37

00:01:36,149 --> 00:01:32,320

tumor cell

38

00:01:38,550 --> 00:01:36,159

and i measure the uh the rewinding of

39

00:01:40,870 --> 00:01:38,560

the of the purified dna the electrical

40

00:01:42,950 --> 00:01:40,880

properties and the frequencies of the

41

00:01:45,030 --> 00:01:42,960

dna

42

00:01:47,190 --> 00:01:45,040

then we're going to talk about

43

00:01:49,590 --> 00:01:47,200

direct effects on water

44

00:01:51,510 --> 00:01:49,600

measuring the similar parameters

45

00:01:53,590 --> 00:01:51,520

and then we're going to talk about how

46

00:01:54,550 --> 00:01:53,600

the information that's stored in the

47

00:01:59,590 --> 00:01:54,560

water

48

00:02:02,230 --> 00:01:59,600

and also crystals can then be read and

49

00:02:04,630 --> 00:02:02,240

interpreted by the biological system

50

00:02:07,590 --> 00:02:04,640

whether it's dna or cells

51  
00:02:10,630 --> 00:02:07,600  
and that's the overview and that's what

52  
00:02:12,949 --> 00:02:10,640  
i'm calling an inert carrier and the the

53  
00:02:15,110 --> 00:02:12,959  
real message of this uh

54  
00:02:16,710 --> 00:02:15,120  
talk is to what extent can the

55  
00:02:18,309 --> 00:02:16,720  
information

56  
00:02:21,030 --> 00:02:18,319  
and the

57  
00:02:22,470 --> 00:02:21,040  
energy associated with the healer

58  
00:02:25,750 --> 00:02:22,480  
can be stored

59  
00:02:28,070 --> 00:02:25,760  
and how long does it stay in the various

60  
00:02:31,110 --> 00:02:28,080  
uh inert carriers

61  
00:02:32,710 --> 00:02:31,120  
okay so uh i just basically have a

62  
00:02:33,509 --> 00:02:32,720  
pretty picture here that says the same

63  
00:02:35,509 --> 00:02:33,519

thing

64

00:02:38,309 --> 00:02:35,519

uh the direct effects

65

00:02:39,350 --> 00:02:38,319

are literally the energy directly on the

66

00:02:41,589 --> 00:02:39,360

cells

67

00:02:43,750 --> 00:02:41,599

or the purified dna and the indirect

68

00:02:46,550 --> 00:02:43,760

effects are either

69

00:02:47,509 --> 00:02:46,560

via water or via crystals

70

00:02:51,750 --> 00:02:47,519

so

71

00:02:53,670 --> 00:02:51,760

that i did many years ago that is worth

72

00:02:56,150 --> 00:02:53,680

briefly mentioning because

73

00:02:57,589 --> 00:02:56,160

i was able to show that

74

00:03:00,710 --> 00:02:57,599

in this case we're measuring dna

75

00:03:03,589 --> 00:03:00,720

synthesis in tumor cells

76

00:03:05,430 --> 00:03:03,599

and the tumor cells

77

00:03:06,630 --> 00:03:05,440

the growth of the tumor cells was

78

00:03:08,470 --> 00:03:06,640

measured

79

00:03:10,869 --> 00:03:08,480

and a healer

80

00:03:11,830 --> 00:03:10,879

directly affected the cells in the petri

81

00:03:14,790 --> 00:03:11,840

dish

82

00:03:16,630 --> 00:03:14,800

and was able to show i was able to show

83

00:03:18,390 --> 00:03:16,640

that different intentions can either

84

00:03:20,229 --> 00:03:18,400

increase or decrease

85

00:03:22,470 --> 00:03:20,239

dna synthesis

86

00:03:24,789 --> 00:03:22,480

uh certain intentions were more

87

00:03:25,750 --> 00:03:24,799

effective than others

88

00:03:28,550 --> 00:03:25,760

thought

89

00:03:29,670 --> 00:03:28,560  
as in mental healing is ineffective

90

00:03:31,910 --> 00:03:29,680  
unless

91

00:03:34,630 --> 00:03:31,920  
there is some emotional content

92

00:03:37,190 --> 00:03:34,640  
particularly the feeling of love

93

00:03:38,470 --> 00:03:37,200  
uh although love by itself is not

94

00:03:42,229 --> 00:03:38,480  
effective

95

00:03:44,470 --> 00:03:42,239  
and uh imagery and intent and intention

96

00:03:48,149 --> 00:03:44,480  
are the key components to making this

97

00:03:49,990 --> 00:03:48,159  
whole thing work so then

98

00:03:51,270 --> 00:03:50,000  
more recently i've been studying the

99

00:03:54,149 --> 00:03:51,280  
effects of

100

00:03:56,550 --> 00:03:54,159  
healers on purified dna

101

00:03:58,949 --> 00:03:56,560

and i've done a lot of work using the

102

00:04:01,830 --> 00:03:58,959

winding and unwinding of the two strands

103

00:04:03,509 --> 00:04:01,840

with a uv spectrophotometer

104

00:04:05,350 --> 00:04:03,519

but after that i want to talk about the

105

00:04:07,910 --> 00:04:05,360

more recent work which is measuring the

106

00:04:09,509 --> 00:04:07,920

electrical properties of dna

107

00:04:11,990 --> 00:04:09,519

using a very

108

00:04:15,030 --> 00:04:12,000

sophisticated technique called nonlinear

109

00:04:17,749 --> 00:04:15,040

dielectric spectroscopy in which case

110

00:04:20,310 --> 00:04:17,759

you measure the impedance

111

00:04:23,350 --> 00:04:20,320

which is indirectly relate

112

00:04:25,749 --> 00:04:23,360

related to the conduction or the conduct

113

00:04:27,510 --> 00:04:25,759

conductivity of the dna

114

00:04:29,590 --> 00:04:27,520

so whatever you see on the screen just

115

00:04:30,950 --> 00:04:29,600

flip it in your mind and say oh if it's

116

00:04:32,629 --> 00:04:30,960

inhibiting

117

00:04:35,350 --> 00:04:32,639

the impedance you're increasing the

118

00:04:38,070 --> 00:04:35,360

conductivity and connectivity is kind of

119

00:04:39,749 --> 00:04:38,080

more sexy anyway

120

00:04:42,629 --> 00:04:39,759

and popular and people talk about the

121

00:04:43,909 --> 00:04:42,639

conductivity of dna and how it how it's

122

00:04:47,189 --> 00:04:43,919

affected

123

00:04:48,710 --> 00:04:47,199

by it the ability of dna to heal itself

124

00:04:51,270 --> 00:04:48,720

so there's a direct correlation there

125

00:04:52,230 --> 00:04:51,280

which is why it's a particular interest

126  
00:04:53,990 --> 00:04:52,240  
then

127  
00:04:56,469 --> 00:04:54,000  
in addition i also measured the

128  
00:04:58,310 --> 00:04:56,479  
frequencies of dna using the same

129  
00:05:00,469 --> 00:04:58,320  
technique

130  
00:05:03,029 --> 00:05:00,479  
okay so here's a

131  
00:05:05,909 --> 00:05:03,039  
experiment that i did with different

132  
00:05:06,710 --> 00:05:05,919  
healers from different schools

133  
00:05:08,230 --> 00:05:06,720  
and

134  
00:05:09,430 --> 00:05:08,240  
needless to say they have different

135  
00:05:12,150 --> 00:05:09,440  
techniques

136  
00:05:13,590 --> 00:05:12,160  
and lo and behold when you partially

137  
00:05:16,230 --> 00:05:13,600  
rewind

138  
00:05:18,029 --> 00:05:16,240

sorry partially unwind the dna and then

139

00:05:19,909 --> 00:05:18,039

rewind it

140

00:05:22,310 --> 00:05:19,919

spontaneously

141

00:05:26,710 --> 00:05:22,320

in the presence of healing energy most

142

00:05:29,350 --> 00:05:26,720

healers slow down that rate of rewinding

143

00:05:32,629 --> 00:05:29,360

by virtue of the uh slope that you could

144

00:05:34,950 --> 00:05:32,639

see here going back toward toward

145

00:05:36,830 --> 00:05:34,960

very slow slow that it's not rewinding

146

00:05:40,150 --> 00:05:36,840

at all which would be a horizontal

147

00:05:40,950 --> 00:05:40,160

line and you can see the control in the

148

00:05:42,070 --> 00:05:40,960

uh

149

00:05:44,790 --> 00:05:42,080

middle

150

00:05:46,550 --> 00:05:44,800

uh where it says reiki one should say oh

151

00:05:47,430 --> 00:05:46,560

no in dotted line sorry

152

00:05:48,790 --> 00:05:47,440

uh

153

00:05:50,150 --> 00:05:48,800

breaking one and reiki two are two

154

00:05:51,430 --> 00:05:50,160

different practitioners there's the

155

00:05:53,029 --> 00:05:51,440

control

156

00:05:54,550 --> 00:05:53,039

and i've actually done that with lots of

157

00:05:56,070 --> 00:05:54,560

different kinds of healers and they all

158

00:05:58,150 --> 00:05:56,080

slowed down

159

00:06:00,550 --> 00:05:58,160

the rewinding of the dna and that

160

00:06:02,390 --> 00:06:00,560

actually in itself is an anomaly because

161

00:06:05,430 --> 00:06:02,400

you would expect that a healer would

162

00:06:09,510 --> 00:06:05,440

speed up the process as the dna returns

163

00:06:12,710 --> 00:06:09,520

to its natural intact helic shape

164

00:06:15,670 --> 00:06:12,720

but alas they all slow it down until i

165

00:06:17,749 --> 00:06:15,680

met eric pearl of the reconnection

166

00:06:19,670 --> 00:06:17,759

and we tested three different

167

00:06:23,029 --> 00:06:19,680

uh practitioners of that technique and

168

00:06:25,270 --> 00:06:23,039

they all speed up the rewinding process

169

00:06:27,510 --> 00:06:25,280

which is interesting suggesting to me

170

00:06:29,590 --> 00:06:27,520

that there are at least two types of

171

00:06:31,590 --> 00:06:29,600

healing energies out there

172

00:06:34,230 --> 00:06:31,600

those that speed up at least in

173

00:06:36,550 --> 00:06:34,240

reference to dna speed up the biological

174

00:06:39,590 --> 00:06:36,560

system and those that slow it down

175

00:06:41,350 --> 00:06:39,600

okay so slowing it down here here i have

176

00:06:43,110 --> 00:06:41,360

tested other

177

00:06:45,350 --> 00:06:43,120

healers are on the right

178

00:06:47,990 --> 00:06:45,360

and two different kinds of machines are

179

00:06:51,029 --> 00:06:48,000

in the middle there and you could just

180

00:06:53,990 --> 00:06:51,039

showing this to to reconfirm that

181

00:06:55,670 --> 00:06:54,000

healers are more powerful than machines

182

00:06:58,790 --> 00:06:55,680

when at least when it

183

00:07:00,790 --> 00:06:58,800

in terms of resonance with dna so that's

184

00:07:02,469 --> 00:07:00,800

good news that's not an anomaly that's

185

00:07:03,909 --> 00:07:02,479

what we would expect

186

00:07:06,790 --> 00:07:03,919

what i would expect

187

00:07:08,070 --> 00:07:06,800

okay so now let's talk about direct

188

00:07:10,230 --> 00:07:08,080

effects

189

00:07:12,390 --> 00:07:10,240

of bioenergy from

190

00:07:14,629 --> 00:07:12,400

actually three different healers on the

191

00:07:16,710 --> 00:07:14,639

electrical properties of dna in this

192

00:07:19,430 --> 00:07:16,720

case we're measuring impedance

193

00:07:20,710 --> 00:07:19,440

and you can see that some healers

194

00:07:22,870 --> 00:07:20,720

increase

195

00:07:26,309 --> 00:07:22,880

uh the electrical properties and some

196

00:07:28,550 --> 00:07:26,319

decrease it all to varying degrees

197

00:07:31,029 --> 00:07:28,560

the um

198

00:07:33,510 --> 00:07:31,039

dotted lines uh

199

00:07:35,270 --> 00:07:33,520

but plus or minus five percent eight

200

00:07:37,029 --> 00:07:35,280

percent berries

201

00:07:39,430 --> 00:07:37,039

uh is the control

202

00:07:42,550 --> 00:07:39,440

so these these guys are you know way

203

00:07:45,670 --> 00:07:42,560

beyond uh the variation you would expect

204

00:07:47,830 --> 00:07:45,680

in the control indicating that indeed

205

00:07:51,270 --> 00:07:47,840

energy from a healer

206

00:07:53,830 --> 00:07:51,280

can directly resonate with the dna

207

00:07:55,589 --> 00:07:53,840

and change its electrical properties as

208

00:07:56,710 --> 00:07:55,599

far as i know no one ever had done this

209

00:07:58,469 --> 00:07:56,720

before

210

00:08:00,550 --> 00:07:58,479

i guess you could say it's an anomaly

211

00:08:01,990 --> 00:08:00,560

that some healers increase it and some

212

00:08:04,390 --> 00:08:02,000

decrease it

213

00:08:06,790 --> 00:08:04,400

because i would have thought it should

214

00:08:08,309 --> 00:08:06,800

increase because again increasing

215

00:08:10,629 --> 00:08:08,319

conductivity

216

00:08:11,430 --> 00:08:10,639

uh or decreasing impedance

217

00:08:13,670 --> 00:08:11,440

is

218

00:08:16,710 --> 00:08:13,680

associated with the natural healing

219

00:08:20,469 --> 00:08:16,720

process of dna when it gets damaged

220

00:08:21,589 --> 00:08:20,479

okay so now the other technique uh is uh

221

00:08:23,029 --> 00:08:21,599

actually measuring the frequencies

222

00:08:25,510 --> 00:08:23,039

themselves this

223

00:08:26,469 --> 00:08:25,520

impedance spectroscopy technique allows

224

00:08:27,350 --> 00:08:26,479

you to

225

00:08:30,550 --> 00:08:27,360

measure

226

00:08:33,110 --> 00:08:30,560

specific frequencies and here is a

227

00:08:35,110 --> 00:08:33,120

graph showing the uh

228

00:08:37,589 --> 00:08:35,120

impedance versus frequency where you can

229

00:08:40,149 --> 00:08:37,599

see very discrete peaks

230

00:08:43,029 --> 00:08:40,159

and here are uh

231

00:08:44,230 --> 00:08:43,039

many of the peaks in dna

232

00:08:46,630 --> 00:08:44,240

showing that

233

00:08:47,829 --> 00:08:46,640

this particular healer depending on the

234

00:08:51,030 --> 00:08:47,839

frequency

235

00:08:52,070 --> 00:08:51,040

can either decrease or increase

236

00:08:55,990 --> 00:08:52,080

the

237

00:08:59,030 --> 00:08:56,000

frequency

238

00:09:02,070 --> 00:08:59,040

so this is interesting and um in this

239

00:09:03,990 --> 00:09:02,080

case oh it's not with the qigong master

240

00:09:08,389 --> 00:09:04,000

and in the dark

241

00:09:10,389 --> 00:09:08,399

bars and the light blue bars the control

242

00:09:12,389 --> 00:09:10,399

next slide shows the specific

243

00:09:14,310 --> 00:09:12,399

frequencies that

244

00:09:16,389 --> 00:09:14,320

a cheat gong master

245

00:09:18,470 --> 00:09:16,399

actually turn on you can see some of the

246

00:09:21,590 --> 00:09:18,480

bars

247

00:09:23,670 --> 00:09:21,600

go to the bottom and decrease

248

00:09:25,990 --> 00:09:23,680

but i'm particularly interested in in

249

00:09:29,030 --> 00:09:26,000

the frequencies that get turned on so

250

00:09:31,990 --> 00:09:29,040

these frequencies were were quite low in

251  
00:09:33,590 --> 00:09:32,000  
fact that 94 kilohertz frequency was was

252  
00:09:36,949 --> 00:09:33,600  
not even present

253  
00:09:39,110 --> 00:09:36,959  
in the uh in the control situation but

254  
00:09:41,590 --> 00:09:39,120  
um yeah so here we're expressing the

255  
00:09:44,070 --> 00:09:41,600  
percent change compared to the control

256  
00:09:47,110 --> 00:09:44,080  
so these frequencies are present in dna

257  
00:09:49,269 --> 00:09:47,120  
although in the case of 94 barely

258  
00:09:51,030 --> 00:09:49,279  
and uh the

259  
00:09:52,389 --> 00:09:51,040  
healing energy

260  
00:09:56,070 --> 00:09:52,399  
activates

261  
00:09:59,670 --> 00:09:56,080  
the dna at that particular frequency

262  
00:10:01,269 --> 00:09:59,680  
okay so the next slide is looking at the

263  
00:10:02,949 --> 00:10:01,279

variability

264

00:10:05,590 --> 00:10:02,959

sorry the reproducibility of this

265

00:10:07,670 --> 00:10:05,600

phenomena because we have

266

00:10:09,670 --> 00:10:07,680

two different it's the same healer on

267

00:10:11,350 --> 00:10:09,680

two different occasions

268

00:10:12,069 --> 00:10:11,360

and you can see that

269

00:10:13,910 --> 00:10:12,079

the

270

00:10:16,150 --> 00:10:13,920

frequency

271

00:10:17,269 --> 00:10:16,160

it doesn't always

272

00:10:19,590 --> 00:10:17,279

appear

273

00:10:20,550 --> 00:10:19,600

to be activated like in the previous

274

00:10:24,230 --> 00:10:20,560

trial

275

00:10:25,350 --> 00:10:24,240

uh the best example is uh is the the the

276

00:10:27,350 --> 00:10:25,360

two

277

00:10:30,150 --> 00:10:27,360

uh in in the middle there where you

278

00:10:33,829 --> 00:10:30,160

could see that uh

279

00:10:37,509 --> 00:10:33,839

it's close if the frequency is

280

00:10:40,550 --> 00:10:37,519

uh not exactly the same but similar

281

00:10:41,829 --> 00:10:40,560

which indicates that the frequencies

282

00:10:45,350 --> 00:10:41,839

are not

283

00:10:46,389 --> 00:10:45,360

discrete and and and concrete

284

00:10:48,470 --> 00:10:46,399

they actually

285

00:10:50,069 --> 00:10:48,480

fluctuate when you measure them they

286

00:10:51,670 --> 00:10:50,079

actually hop

287

00:10:53,190 --> 00:10:51,680

and this phenomena called frequency

288

00:10:55,190 --> 00:10:53,200

hopping is is in the scientific

289

00:10:58,630 --> 00:10:55,200

literature so you don't always get the

290

00:11:00,710 --> 00:10:58,640

frequency at 94 kilohertz it it it

291

00:11:02,630 --> 00:11:00,720

fluctuates and depending on the

292

00:11:04,150 --> 00:11:02,640

treatment as you can see in this set the

293

00:11:05,269 --> 00:11:04,160

second treatment didn't didn't affect

294

00:11:07,829 --> 00:11:05,279

the the

295

00:11:10,150 --> 00:11:07,839

94 kilohertz signal at all

296

00:11:11,430 --> 00:11:10,160

so there's a lot of variability here

297

00:11:13,269 --> 00:11:11,440

another case you could call that an

298

00:11:14,389 --> 00:11:13,279

anomaly because i can't really explain

299

00:11:17,750 --> 00:11:14,399

that

300

00:11:23,110 --> 00:11:17,760

okay so here is um

301  
00:11:27,190 --> 00:11:25,190  
affecting the dna

302  
00:11:28,870 --> 00:11:27,200  
showing this is basically the same

303  
00:11:31,590 --> 00:11:28,880  
conclusion that we saw from the previous

304  
00:11:33,990 --> 00:11:31,600  
grant just expressed differently

305  
00:11:37,430 --> 00:11:34,000  
okay so now let's talk about

306  
00:11:39,829 --> 00:11:37,440  
uh the ability of inert carriers to

307  
00:11:40,710 --> 00:11:39,839  
store this information

308  
00:11:43,269 --> 00:11:40,720  
and

309  
00:11:45,670 --> 00:11:43,279  
we're going to uh look at three

310  
00:11:49,430 --> 00:11:45,680  
different kinds of carriers

311  
00:11:52,230 --> 00:11:49,440  
liquid water or bulk water

312  
00:11:53,910 --> 00:11:52,240  
and liquid crystalline water which is

313  
00:11:55,590 --> 00:11:53,920

another way a fancy way of saying

314

00:11:57,990 --> 00:11:55,600

structured water

315

00:12:00,629 --> 00:11:58,000

and crystals like as in

316

00:12:02,069 --> 00:12:00,639

hard physical crystals

317

00:12:04,310 --> 00:12:02,079

and i

318

00:12:07,030 --> 00:12:04,320

have done uh experiments with different

319

00:12:08,790 --> 00:12:07,040

healers on different types of waters and

320

00:12:11,430 --> 00:12:08,800

different kinds of crystals which you

321

00:12:12,550 --> 00:12:11,440

are about to

322

00:12:15,590 --> 00:12:12,560

hear

323

00:12:17,590 --> 00:12:15,600

so the background for this is uh is the

324

00:12:20,150 --> 00:12:17,600

idea of imprinting

325

00:12:21,829 --> 00:12:20,160

water uh with

326

00:12:23,190 --> 00:12:21,839

healing energy was actually probably

327

00:12:25,030 --> 00:12:23,200

first done by

328

00:12:27,269 --> 00:12:25,040

schwartz and he measured changes in

329

00:12:29,590 --> 00:12:27,279

infrared and bill tiller came along

330

00:12:31,350 --> 00:12:29,600

measured changes in ph

331

00:12:33,829 --> 00:12:31,360

and then i did a lot of experiments

332

00:12:36,150 --> 00:12:33,839

using ultraviolet spectroscopy

333

00:12:38,790 --> 00:12:36,160

but you know there's actually a lot of

334

00:12:40,790 --> 00:12:38,800

studies which demonstrate the physical

335

00:12:43,509 --> 00:12:40,800

chemical and electrical properties of

336

00:12:45,910 --> 00:12:43,519

water change in response to a healer

337

00:12:48,470 --> 00:12:45,920

okay that's nice but does that mean that

338

00:12:50,470 --> 00:12:48,480

the information is imprinted and the way

339

00:12:52,550 --> 00:12:50,480

we can answer that question is to see

340

00:12:54,310 --> 00:12:52,560

whether or not a biological system can

341

00:12:55,829 --> 00:12:54,320

read that information

342

00:12:58,629 --> 00:12:55,839

so it's more than just changing the

343

00:13:01,110 --> 00:12:58,639

properties of water it's it's

344

00:13:02,389 --> 00:13:01,120

storing the information in the water

345

00:13:04,870 --> 00:13:02,399

itself

346

00:13:07,910 --> 00:13:04,880

so here's an example of four different

347

00:13:09,829 --> 00:13:07,920

healers uh where in this case

348

00:13:13,910 --> 00:13:09,839

uh the effects

349

00:13:18,870 --> 00:13:16,790

oh so before i talk about uh

350

00:13:21,350 --> 00:13:18,880

treating the water itself this is the

351

00:13:23,430 --> 00:13:21,360

the effects no i'm sorry this is

352

00:13:24,230 --> 00:13:23,440

the proper water okay sorry we're in

353

00:13:26,389 --> 00:13:24,240

water

354

00:13:27,509 --> 00:13:26,399

i have to uh keep moving my

355

00:13:30,310 --> 00:13:27,519

my uh

356

00:13:32,470 --> 00:13:30,320

video camera here so i can see the title

357

00:13:35,030 --> 00:13:32,480

so okay so they're treating the water

358

00:13:37,670 --> 00:13:35,040

and then you add the water to the dna

359

00:13:39,509 --> 00:13:37,680

with the information and the dotted bars

360

00:13:40,710 --> 00:13:39,519

of the control so

361

00:13:43,990 --> 00:13:40,720

we

362

00:13:47,430 --> 00:13:44,000

they do vary obviously uh plus and minus

363

00:13:49,350 --> 00:13:47,440

eight nine ten percent and the healers

364

00:13:52,069 --> 00:13:49,360

in all cases

365

00:13:53,350 --> 00:13:52,079

decrease the impedance or increase the

366

00:13:56,230 --> 00:13:53,360

conductivity

367

00:13:58,470 --> 00:13:56,240

of the dna in response to the energy

368

00:13:59,350 --> 00:13:58,480

that's stored in the water

369

00:14:00,470 --> 00:13:59,360

okay

370

00:14:02,389 --> 00:14:00,480

so

371

00:14:05,030 --> 00:14:02,399

uh the conclusion from these kind of

372

00:14:06,389 --> 00:14:05,040

studies is that yes uh water

373

00:14:08,389 --> 00:14:06,399

uh can

374

00:14:09,829 --> 00:14:08,399

information can be imprinted in water

375

00:14:11,829 --> 00:14:09,839

and that uh

376

00:14:13,590 --> 00:14:11,839

water remembers this information and the

377

00:14:14,949 --> 00:14:13,600

biological systems can read the

378

00:14:16,949 --> 00:14:14,959

information

379

00:14:19,350 --> 00:14:16,959

okay this was actually

380

00:14:21,189 --> 00:14:19,360

first published in 1995 and there's

381

00:14:22,310 --> 00:14:21,199

scientific rationale for doing all these

382

00:14:25,670 --> 00:14:22,320

experiments

383

00:14:28,710 --> 00:14:25,680

a um a bioelectromagnetic researcher

384

00:14:30,870 --> 00:14:28,720

asked the question well well

385

00:14:32,870 --> 00:14:30,880

all cells respond to electromagnetic

386

00:14:35,509 --> 00:14:32,880

fields but all cells are surrounded by

387

00:14:38,710 --> 00:14:35,519

water what's the role of water

388

00:14:40,470 --> 00:14:38,720

in in the response of a cell to

389

00:14:42,389 --> 00:14:40,480

electromagnetic fields

390

00:14:44,949 --> 00:14:42,399

and they did the brilliant experiment

391

00:14:45,910 --> 00:14:44,959

that no one ever done before and just

392

00:14:47,590 --> 00:14:45,920

zapped the water with the

393

00:14:48,470 --> 00:14:47,600

electromagnetic field and added the

394

00:14:50,550 --> 00:14:48,480

water

395

00:14:53,910 --> 00:14:50,560

to the cells and they got

396

00:14:55,750 --> 00:14:53,920

um a biological effect as you can see

397

00:14:56,829 --> 00:14:55,760

uh in this case they're measuring the

398

00:14:59,750 --> 00:14:56,839

electrical

399

00:15:02,710 --> 00:14:59,760

properties of the potassium channel

400

00:15:05,030 --> 00:15:02,720

so anyway so my experiments were done

401  
00:15:07,990 --> 00:15:05,040  
with uh

402  
00:15:10,389 --> 00:15:08,000  
tumor cells grown in tissue culture

403  
00:15:12,150 --> 00:15:10,399  
where they water was treated with

404  
00:15:14,310 --> 00:15:12,160  
different intentions and that water is

405  
00:15:17,030 --> 00:15:14,320  
used to make tissue culture medium

406  
00:15:19,030 --> 00:15:17,040  
and then measure the effects uh on cell

407  
00:15:21,269 --> 00:15:19,040  
growth of the tumors

408  
00:15:23,670 --> 00:15:21,279  
and here we're comparing direct and

409  
00:15:26,389 --> 00:15:23,680  
indirect so in the direct experiment the

410  
00:15:28,949 --> 00:15:26,399  
healer zap the

411  
00:15:31,749 --> 00:15:28,959  
petri dish with the tumor cells and the

412  
00:15:33,910 --> 00:15:31,759  
indirect experiment they zap the water

413  
00:15:34,790 --> 00:15:33,920

which was then used to make the culture

414

00:15:36,949 --> 00:15:34,800  
media

415

00:15:39,430 --> 00:15:36,959  
and as you can see

416

00:15:42,470 --> 00:15:39,440  
the direct effect is so much stronger

417

00:15:45,430 --> 00:15:42,480  
not surprising no anomaly there

418

00:15:47,829 --> 00:15:45,440  
about here however we have um the

419

00:15:50,949 --> 00:15:47,839  
indirect effect being much larger than

420

00:15:52,710 --> 00:15:50,959  
the direct effect which was an anomaly

421

00:15:54,629 --> 00:15:52,720  
for sure because

422

00:15:57,110 --> 00:15:54,639  
that's not the way it's supposed to be

423

00:15:59,509 --> 00:15:57,120  
so uh that's an interesting

424

00:16:03,829 --> 00:15:59,519  
point for this group particularly

425

00:16:06,870 --> 00:16:03,839  
okay so now if we look at

426

00:16:10,069 --> 00:16:06,880

indirect uh effects

427

00:16:11,910 --> 00:16:10,079

uh from different kinds of water okay so

428

00:16:14,470 --> 00:16:11,920

you can see that when they when

429

00:16:16,069 --> 00:16:14,480

distilled water di it was what i had

430

00:16:18,150 --> 00:16:16,079

used previously

431

00:16:20,710 --> 00:16:18,160

but when you add salt

432

00:16:23,670 --> 00:16:20,720

to that distilled water you produce the

433

00:16:25,749 --> 00:16:23,680

opposite effect um tap water itself had

434

00:16:28,790 --> 00:16:25,759

no effect and spring water which does

435

00:16:31,590 --> 00:16:28,800

have minerals in it uh some sodium

436

00:16:32,870 --> 00:16:31,600

but not as high concentration as in

437

00:16:34,389 --> 00:16:32,880

saline

438

00:16:36,870 --> 00:16:34,399

you back to the original effect with

439

00:16:40,230 --> 00:16:36,880

distilled water so this is very much

440

00:16:43,829 --> 00:16:40,240

dependent on the mineral content of the

441

00:16:46,389 --> 00:16:43,839

water that's not really surprising

442

00:16:48,230 --> 00:16:46,399

so then the question was well let's look

443

00:16:51,269 --> 00:16:48,240

at structured water now there's a

444

00:16:53,990 --> 00:16:51,279

commercial uh company that i work with

445

00:16:56,150 --> 00:16:54,000

uh called vevo here's here's the vivo

446

00:16:58,710 --> 00:16:56,160

water which is structured water

447

00:16:59,910 --> 00:16:58,720

confirmed by nmr spectroscopy lasts for

448

00:17:01,829 --> 00:16:59,920

two years

449

00:17:04,230 --> 00:17:01,839

published data patented data there's a

450

00:17:06,069 --> 00:17:04,240

lot of research on vehicle water so here

451  
00:17:09,909 --> 00:17:06,079  
we use vivo water

452  
00:17:10,870 --> 00:17:09,919  
to receive the energy from a healer

453  
00:17:12,150 --> 00:17:10,880  
and

454  
00:17:13,909 --> 00:17:12,160  
it didn't work

455  
00:17:15,110 --> 00:17:13,919  
distilled water had the predictable

456  
00:17:19,189 --> 00:17:15,120  
effect

457  
00:17:21,829 --> 00:17:19,199  
the unstructured mineral solution ums

458  
00:17:23,750 --> 00:17:21,839  
had uh the opposite effect of distilled

459  
00:17:25,350 --> 00:17:23,760  
water but then that's because of the

460  
00:17:28,069 --> 00:17:25,360  
presence of all the minerals so that's

461  
00:17:30,390 --> 00:17:28,079  
not surprising uh what's surprising is

462  
00:17:33,029 --> 00:17:30,400  
that structured water did not

463  
00:17:34,549 --> 00:17:33,039

take on the information

464

00:17:37,110 --> 00:17:34,559

from the healer but if you think about

465

00:17:40,230 --> 00:17:37,120

it the water so structured and so

466

00:17:43,029 --> 00:17:40,240

organized there's it's not open to

467

00:17:44,630 --> 00:17:43,039

receive information so it doesn't

468

00:17:46,470 --> 00:17:44,640

imprint

469

00:17:47,669 --> 00:17:46,480

interesting observation

470

00:17:49,909 --> 00:17:47,679

okay so now we're going to move on to

471

00:17:52,630 --> 00:17:49,919

crystals same experiment you treat the

472

00:17:55,110 --> 00:17:52,640

crystals and then in this case you put

473

00:17:57,669 --> 00:17:55,120

the uh water sample on top of the

474

00:18:00,310 --> 00:17:57,679

crystal in a glass container so the

475

00:18:02,630 --> 00:18:00,320

energy is emitted from the crystals goes

476  
00:18:05,029 --> 00:18:02,640  
through the glass through the water and

477  
00:18:06,870 --> 00:18:05,039  
affects the dna

478  
00:18:10,070 --> 00:18:06,880  
and and you can see that different kinds

479  
00:18:11,110 --> 00:18:10,080  
of crystals have different kinds of uh

480  
00:18:13,110 --> 00:18:11,120  
effects

481  
00:18:14,710 --> 00:18:13,120  
again lapis and tiger's eye have the

482  
00:18:17,510 --> 00:18:14,720  
opposite effects

483  
00:18:19,270 --> 00:18:17,520  
and some are weak and some are strong so

484  
00:18:21,590 --> 00:18:19,280  
i mean that that's

485  
00:18:23,590 --> 00:18:21,600  
interesting by itself yeah here we're

486  
00:18:26,070 --> 00:18:23,600  
asking the question how long does this

487  
00:18:29,750 --> 00:18:26,080  
uh phenomenal last

488  
00:18:32,549 --> 00:18:29,760

uh and if you treat the crystals with

489

00:18:33,990 --> 00:18:32,559

bio energy with two different intentions

490

00:18:35,590 --> 00:18:34,000

you could see

491

00:18:37,590 --> 00:18:35,600

that

492

00:18:40,230 --> 00:18:37,600

certainly with intention number two by

493

00:18:43,510 --> 00:18:40,240

the time you get to the second month the

494

00:18:44,710 --> 00:18:43,520

information uh is almost back to zero

495

00:18:47,510 --> 00:18:44,720

uh which is

496

00:18:50,310 --> 00:18:47,520

actually a really long time uh and the

497

00:18:51,510 --> 00:18:50,320

anomalous effect here is that uh some

498

00:18:53,669 --> 00:18:51,520

intentions

499

00:18:56,870 --> 00:18:53,679

it doesn't decay it gets stronger over

500

00:18:59,350 --> 00:18:56,880

time so that's a anomaly right there

501  
00:19:00,310 --> 00:18:59,360  
okay so then we do the same experiment

502  
00:19:02,710 --> 00:19:00,320  
this time

503  
00:19:05,350 --> 00:19:02,720  
not with with a

504  
00:19:08,470 --> 00:19:05,360  
energy from a person but with with a

505  
00:19:11,510 --> 00:19:08,480  
scalar energy from a caduceus coil

506  
00:19:12,549 --> 00:19:11,520  
and it this time the information in the

507  
00:19:15,510 --> 00:19:12,559  
water

508  
00:19:17,350 --> 00:19:15,520  
decays over the course of several days

509  
00:19:18,070 --> 00:19:17,360  
not several months

510  
00:19:20,789 --> 00:19:18,080  
so

511  
00:19:22,630 --> 00:19:20,799  
this is encouraging that

512  
00:19:23,510 --> 00:19:22,640  
water imprinted

513  
00:19:25,750 --> 00:19:23,520

with

514

00:19:27,830 --> 00:19:25,760

healing energy lasts a lot longer than

515

00:19:29,909 --> 00:19:27,840

man-made energy i suppose that's not

516

00:19:32,310 --> 00:19:29,919

really an anomaly

517

00:19:34,710 --> 00:19:32,320

okay so now we're moving on to uh

518

00:19:37,029 --> 00:19:34,720

experiments here that bill tiller talked

519

00:19:39,590 --> 00:19:37,039

about he did the same kind of experiment

520

00:19:41,750 --> 00:19:39,600

measuring ph and you can see here he

521

00:19:45,669 --> 00:19:41,760

gets very symmetrical

522

00:19:48,789 --> 00:19:45,679

coherent changes in the ph over time

523

00:19:51,830 --> 00:19:48,799

and now i want to talk about yet another

524

00:19:53,990 --> 00:19:51,840

way of storing information not well so

525

00:19:56,230 --> 00:19:54,000

bill tiller stored his information not

526

00:19:58,070 --> 00:19:56,240

in a crystal not in water but in this

527

00:20:00,710 --> 00:19:58,080

kind of electronic circuit that that's

528

00:20:02,870 --> 00:20:00,720

the main point which was rather novel at

529

00:20:03,990 --> 00:20:02,880

the first it's kind of even thought of

530

00:20:07,270 --> 00:20:04,000

doing that

531

00:20:08,630 --> 00:20:07,280

but he was able to get reproducible

532

00:20:10,950 --> 00:20:08,640

results and he published it in the

533

00:20:13,270 --> 00:20:10,960

journal scientific exploration so

534

00:20:15,350 --> 00:20:13,280

that's off to the sse for it for

535

00:20:17,590 --> 00:20:15,360

publishing this because it was so far

536

00:20:18,870 --> 00:20:17,600

ahead of its time

537

00:20:20,390 --> 00:20:18,880

nowadays

538

00:20:21,190 --> 00:20:20,400

we we're

539

00:20:24,470 --> 00:20:21,200

the

540

00:20:27,990 --> 00:20:24,480

latest is to try to store information

541

00:20:29,510 --> 00:20:28,000

in a wave file in a computer

542

00:20:31,750 --> 00:20:29,520

and the

543

00:20:33,190 --> 00:20:31,760

this information is then transferred to

544

00:20:35,270 --> 00:20:33,200

the water

545

00:20:37,909 --> 00:20:35,280

like we've been talking about and you

546

00:20:40,149 --> 00:20:37,919

generate what's called an infoceutical

547

00:20:43,270 --> 00:20:40,159

and so instead of a nutraceutical which

548

00:20:45,270 --> 00:20:43,280

has the chemical or the herb or the drug

549

00:20:47,590 --> 00:20:45,280

it's an infoceutical which has the

550

00:20:48,470 --> 00:20:47,600

information or the energy of the drug in

551  
00:20:50,470 --> 00:20:48,480  
the water

552  
00:20:52,149 --> 00:20:50,480  
and these two websites are two existing

553  
00:20:54,230 --> 00:20:52,159  
companies the first ones in russia and

554  
00:20:56,710 --> 00:20:54,240  
the second one's in europe that actually

555  
00:20:59,590 --> 00:20:56,720  
sell these infoceutical products

556  
00:21:00,710 --> 00:20:59,600  
but in the scientific quest for

557  
00:21:03,909 --> 00:21:00,720  
knowledge

558  
00:21:05,990 --> 00:21:03,919  
we have moved on to a company called the

559  
00:21:07,990 --> 00:21:06,000  
g box that i've been working with who

560  
00:21:11,669 --> 00:21:08,000  
has patented technology

561  
00:21:13,190 --> 00:21:11,679  
for recording and storing the bio energy

562  
00:21:17,909 --> 00:21:13,200  
of a healer

563  
00:21:20,230 --> 00:21:17,919

using using special scalar antennas

564

00:21:25,270 --> 00:21:20,240

the information is then stored

565

00:21:29,590 --> 00:21:25,280

in a wav file on a small android device

566

00:21:33,990 --> 00:21:31,990

transmit the information to regenerate

567

00:21:36,950 --> 00:21:34,000

the information

568

00:21:39,510 --> 00:21:36,960

directly into the body or in in as

569

00:21:41,190 --> 00:21:39,520

you'll see in into water

570

00:21:42,470 --> 00:21:41,200

each device has several different

571

00:21:43,190 --> 00:21:42,480

intentions

572

00:21:45,350 --> 00:21:43,200

and

573

00:21:47,590 --> 00:21:45,360

the company already has some preliminary

574

00:21:50,230 --> 00:21:47,600

clinical evidence for efficacy in

575

00:21:53,110 --> 00:21:50,240

regards to detoxification

576

00:21:55,430 --> 00:21:53,120

uh and the uh they don't have a website

577

00:21:58,470 --> 00:21:55,440

yet it's such a new company but what

578

00:22:01,190 --> 00:21:58,480

they also have is these recordings of

579

00:22:02,710 --> 00:22:01,200

what the energy looks like

580

00:22:05,029 --> 00:22:02,720

but before i show you that i want to

581

00:22:06,310 --> 00:22:05,039

show you the effects of two different

582

00:22:09,110 --> 00:22:06,320

programs

583

00:22:10,710 --> 00:22:09,120

one that treats allergies and one

584

00:22:12,630 --> 00:22:10,720

for treating lyme

585

00:22:13,830 --> 00:22:12,640

and you might think well what is d and

586

00:22:15,590 --> 00:22:13,840

again we're measuring the electrical

587

00:22:17,350 --> 00:22:15,600

properties of dna

588

00:22:19,029 --> 00:22:17,360

what does a dna have to do with

589

00:22:21,110 --> 00:22:19,039

allergies well you can see in the bottom

590

00:22:22,630 --> 00:22:21,120

of the screen an article published in

591

00:22:23,430 --> 00:22:22,640

2002

592

00:22:29,510 --> 00:22:23,440

uh

593

00:22:32,230 --> 00:22:29,520

so there is justification not an anomaly

594

00:22:33,750 --> 00:22:32,240

you would expect the dna to respond but

595

00:22:36,950 --> 00:22:33,760

here's the kind of

596

00:22:38,310 --> 00:22:36,960

uh recorded spectra they get

597

00:22:41,190 --> 00:22:38,320

from the wave file once you have the

598

00:22:43,029 --> 00:22:41,200

information in in a wav file it's there

599

00:22:45,430 --> 00:22:43,039

forever so there's no issue about how

600

00:22:49,590 --> 00:22:45,440

long it lasts you just play back the wav

601  
00:22:52,310 --> 00:22:49,600  
file so here's a a a recording from a

602  
00:22:54,630 --> 00:22:52,320  
healer before they were putting out

603  
00:22:56,950 --> 00:22:54,640  
active energy and when they were

604  
00:22:58,470 --> 00:22:56,960  
so you can see on the um

605  
00:23:06,870 --> 00:22:58,480  
on the

606  
00:23:10,149 --> 00:23:06,880  
right and the left and i describe that

607  
00:23:11,830 --> 00:23:10,159  
uh the right is frequency and on the

608  
00:23:13,830 --> 00:23:11,840  
left is time

609  
00:23:17,350 --> 00:23:13,840  
so you've got you've got oh i can use my

610  
00:23:19,830 --> 00:23:17,360  
cursor here so you've got uh time zero

611  
00:23:22,870 --> 00:23:19,840  
time low frequency high frequency these

612  
00:23:24,950 --> 00:23:22,880  
are all actually very low frequencies

613  
00:23:28,070 --> 00:23:24,960

um here's a

614

00:23:32,149 --> 00:23:28,080

recording from uh a healer

615

00:23:34,230 --> 00:23:32,159

uh and this is um i'm sorry this is a

616

00:23:38,549 --> 00:23:34,240

the recording

617

00:23:41,430 --> 00:23:38,559

and uh the direct measurement uh which

618

00:23:42,950 --> 00:23:41,440

uh which which indicates that

619

00:23:44,710 --> 00:23:42,960

when they measure the healer directly

620

00:23:46,630 --> 00:23:44,720

the energy coming from the healer and

621

00:23:48,230 --> 00:23:46,640

the energy coming from the recording

622

00:23:50,549 --> 00:23:48,240

they're pretty much the same except you

623

00:23:51,909 --> 00:23:50,559

can see one little difference around

624

00:23:53,350 --> 00:23:51,919

around there but otherwise it's quite

625

00:23:55,750 --> 00:23:53,360

similar

626  
00:23:57,750 --> 00:23:55,760  
okay so here's uh two different programs

627  
00:24:00,230 --> 00:23:57,760  
which at two different intentions which

628  
00:24:02,230 --> 00:24:00,240  
you can see are actually quite different

629  
00:24:03,430 --> 00:24:02,240  
and um

630  
00:24:05,909 --> 00:24:03,440  
again

631  
00:24:07,990 --> 00:24:05,919  
these peaks represent you know the the

632  
00:24:09,750 --> 00:24:08,000  
activity at a particular frequency at a

633  
00:24:10,710 --> 00:24:09,760  
particular time

634  
00:24:12,870 --> 00:24:10,720  
um

635  
00:24:14,230 --> 00:24:12,880  
different crystals emit different kinds

636  
00:24:16,870 --> 00:24:14,240  
of patterns

637  
00:24:19,190 --> 00:24:16,880  
uh if you look over here this is the

638  
00:24:20,470 --> 00:24:19,200

marcel vogel crystal

639

00:24:23,029 --> 00:24:20,480

that uh

640

00:24:25,269 --> 00:24:23,039

uh people who know marcel vogels were

641

00:24:26,950 --> 00:24:25,279

uh is is quite remarkable because not

642

00:24:28,549 --> 00:24:26,960

only does it have the low frequencies

643

00:24:29,830 --> 00:24:28,559

which are different than the other two

644

00:24:31,190 --> 00:24:29,840

it's also got the very very high

645

00:24:34,149 --> 00:24:31,200

frequencies

646

00:24:35,590 --> 00:24:34,159

so uh quite remarkable

647

00:24:38,310 --> 00:24:35,600

crystal

648

00:24:40,950 --> 00:24:38,320

so uh getting toward the end here uh

649

00:24:44,149 --> 00:24:40,960

just looking now at um

650

00:24:47,909 --> 00:24:44,159

the effects uh in summary when when

651  
00:24:52,070 --> 00:24:47,919  
comparing direct a heal a healer

652  
00:24:53,110 --> 00:24:52,080  
directly on either the lymphocyte

653  
00:24:55,269 --> 00:24:53,120  
growth

654  
00:24:58,230 --> 00:24:55,279  
or dna

655  
00:25:00,470 --> 00:24:58,240  
versus the indirect effect when the

656  
00:25:02,630 --> 00:25:00,480  
healer treats the water and then

657  
00:25:04,710 --> 00:25:02,640  
the water is put on the biological

658  
00:25:06,390 --> 00:25:04,720  
system and the point to make here is

659  
00:25:10,789 --> 00:25:06,400  
that when you use an electromagnetic

660  
00:25:15,590 --> 00:25:12,630  
the record the

661  
00:25:17,190 --> 00:25:15,600  
indirect effect is somewhat less

662  
00:25:19,510 --> 00:25:17,200  
in this particular experiment it was

663  
00:25:21,510 --> 00:25:19,520

recorded with an audio recording and

664

00:25:24,470 --> 00:25:21,520

this experiment which is again

665

00:25:26,630 --> 00:25:24,480

significantly less but this is the cheap

666

00:25:27,669 --> 00:25:26,640

box results which are actually quite

667

00:25:30,149 --> 00:25:27,679

similar

668

00:25:34,390 --> 00:25:30,159

and this particular method of storing

669

00:25:36,390 --> 00:25:34,400

the energy appears to work the best

670

00:25:38,230 --> 00:25:36,400

so in the interest of time i think i've

671

00:25:40,390 --> 00:25:38,240

covered all the anomalies throughout the

672

00:25:43,029 --> 00:25:40,400

course of the uh the lecture

673

00:25:45,750 --> 00:25:43,039

uh no one's giving me a hook so

674

00:25:47,750 --> 00:25:45,760

i don't it's been 25 minutes so uh you

675

00:25:50,310 --> 00:25:47,760

guess you can read this to yourself but

676  
00:25:53,750 --> 00:25:50,320  
to me there are a lot of interesting

677  
00:25:56,230 --> 00:25:53,760  
findings as a result of this research

678  
00:25:58,149 --> 00:25:56,240  
and um if i had more time i could

679  
00:26:00,149 --> 00:25:58,159  
elaborate more time

680  
00:26:02,149 --> 00:26:00,159  
i don't have time for the methodology

681  
00:26:04,149 --> 00:26:02,159  
which is why i put it in the end but

682  
00:26:06,470 --> 00:26:04,159  
here's what happens for the unwinding

683  
00:26:08,390 --> 00:26:06,480  
when you unwind the two strands this is

684  
00:26:11,029 --> 00:26:08,400  
the kind of control curves you get as a

685  
00:26:13,990 --> 00:26:11,039  
function of time uh this is the

686  
00:26:16,789 --> 00:26:14,000  
electrical properties of dna using this

687  
00:26:18,630 --> 00:26:16,799  
non-linear dielectric spectroscopy

688  
00:26:19,990 --> 00:26:18,640

and

689

00:26:22,070 --> 00:26:20,000

these are the kind of electrical

690

00:26:23,669 --> 00:26:22,080

measurements that you can make and in

691

00:26:27,029 --> 00:26:23,679

the interest of time i'm just going to

692

00:26:28,549 --> 00:26:27,039

thank everybody for your patience and

693

00:26:30,149 --> 00:26:28,559

i'll be available for questions and

694

00:26:32,470 --> 00:26:30,159

answers so we can go into the