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# **Mutant Emotion Coded by Sijo**

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#### Abstract

Always, emotion is mutant. This is principle of literary treatment. In the literature, sadness is not sadness, and 'loving emotion' is not 'loving emotion.' Despite loving of our, loving is sadness. Also loving is to cry. This crying becomes love. This study is to show the mutant emotion which is to be able to code Deep Learning AI. We explored the Sijo "Streams that cried last night", because this Sijo was useful to study mutant emotion. The result was that this Sijo was coding the mutant emotion. Almost continuously, the sadness codes were spawning and concentrating. So this Sijo was making the emotion of love with the sadness. If this study is continued, It is believed that our lives will be much happier. And the method of literary therapy will be able to more upgrade.

Keywords: Sijo, Literary Therapy, Literary Physiology, Mutation of Emotion, Deep Learning AI

#### 1. Introduction

If we imagine the future in our lives, perhaps literary treatment will be upgraded by Deep Learning AI. AI will take human being's signals from the human body to treat the human emotions and bodies. Literature Therapy will be useful this treatment. It is because AI will be able to treat emotions. This emotion treatment is same the body treatment, for the body is formed by emotions [13, 14]. We will try to analysis of it. So this time we should see the Sijo "streams cried last night," because this Sijo is useful in this study. We will use the Emotion Codon [13, 14]. This study is related to Physiology [1-3, 5] and our studies [6-46].

### 2. Purification of Emotion

Now, we are to analysis this Sijo's Emotion Coding to grow the literary therapy. First the emotion codon will show that the certain emotion spawns. Second the codon will be shown how to body forth the amplification

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of the emotion codes. Lastly the catharsis' situation will be formed on the codon. And we will see the mutation of emotion.

## 2.1. Spawning of Emotion

The following Sijo is on page 23 of the *Perfection of Ancient Korean Sijo*古時調大全 (Heungkyu Kim. et al., 2012) [4].

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간밤에 울던 여울 슬피 울어 지나거다
이제야 생각하니 임이 울어 보내도다
저 물이 거슬이 흐르고저 나도 울어 예리라
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This Sijo of Korea is interpreted as follows in English.

The streams that were crying last night passed with tears of sadness Now that I think about it, my lover sent me tears with crying That water is going to flow back, as if I think to go to my lover with crying

The Sijo is spawning the sadness on the first line, second line and last line. In the first line, the sadness is encoded three times with 'crying', 'tears', 'sadness.' In the second line, the sadness is encoded twice with 'tears', 'crying.' In the last line, the sadness is encoded once with 'crying.'

**Table 1. Spawning of Emotion** 

rable it oparting of Emotion					
Second base →	U	L	A	J	Second base ←
First base	UUU	ULU	UAU	UJU	Third base
$\downarrow$	UUL	ULL	UAL	UJL	↓
U	UUA	ULA	UAA	UJA	U/L/A/J
	UUJ	ULJ	UAJ	UJJ	CILITIO
	L <mark>U</mark> U	LLU	LAU	LJU	
	LUL	LLL	LAL	LJL	****
_	LUA	LLA	LAA	LJA	U/L/A/J
L	LUJ	LLJ	LAJ	LJJ	
	AUU	ALU	AAU	AJU	
	AUL	ALL	AAL	AJL	
A	AUA	ALA	AAA	AJA	U/L/A/J
	AUJ	ALJ	AAJ	AJJ	
	JUU	JLU	TAIT	TITI	
			JAU	JJ <mark>U</mark>	
J	JUL	JLL	JAL	JJL	U/L/A/J
	JUA	JLA	JAA	JJA	
	JUJ	JLJ	JAJ	JJJ	
These Emotion amino acids express various changes of the Emotion DNA					

This spawning with dangling on the first, second, and last line is encoded on Table 1 of the Emotion Codon as sadness code 'U.' The first coding was generated on the first base of table 1. The second coding appeared on the second base of table 1. The last coding was spawned on the third base of table 1.

### 2.2. Gathering of Emotion

If the emotion codes on the table 1 are encoded repeatedly nine times, the Emotion Codon is formed as table 2.

Table 2. Repeatedly Encoding of Emotion

rable 2. Repeatedly Encounty of Emotion					
Second base →	U	L	A	J	Second base ←
First base	UUU	ULU	UAU	UJU	Third base
$\downarrow$	UUL	ULL	UAL	UJL	↓
U	UUA	ULA	UAA	<b>U</b> JA	U/L/A/J
	UUJ	<b>U</b> LJ	<b>U</b> AJ	UJJ	0/2/11/0
	LUU	LLU	LAU	LJ <mark>U</mark>	
_	L <mark>U</mark> L	LLL	LAL	LJL	
$\mathbf{L}$	L <mark>U</mark> A	LLA	LAA	LJA	U/L/A/J
	L <mark>U</mark> J	LLJ	LAJ	LJJ	
	AUU	ALU	AAU	AJU	
A	AUL	ALL	AAL	AJL	U/L/A/J
A	AUA	ALA	AAA	AJA	U/L/A/J
	A <mark>U</mark> J	ALJ	AAJ	AJJ	
	JUU	JL <mark>U</mark>	JAU	JJ <mark>U</mark>	
_	J <mark>U</mark> L	JLL	JAL	JJL	
J	JUA	JLA	JAA	JJA	U/L/A/J
	J <mark>U</mark> J	JLJ	JAJ	JJJ	
There Exists a mineral decomposition of the Exist DNA					
These Emotion amino acids express various changes of the Emotion DNA					

# 2.3. Amplification of Catharsis

When the Sijo's emotion codes are amplified 8 times, codon of table 2 shows that catharsis is begun. At that time, there are 48 codes of sadness on that codon. The sadness' 48 codes can fill the codon's all zone 16 parts. If only one more code of sadness spawns, that one code overflows from this codon's all zone. So from this time on table 2, the catharis is begun. Table 3 shows the amplification of catharsis.

Second base Second base U L A J UUU×∞ Third base First base **ULU UAU UJU UUL** ULL **UAL UJL UUA ULA UAA UJA** U U/L/A/J **UUJ ULJ UAJ UJJ LUU** LAU LLU LJU LUL LLL LAL LJL L U/L/A/J **LUA** LLA LAA LJA LUJ LLJ LAJ LJJ **AUU ALU AAU AJU AUL ALL AAL AJL** A U/L/A/J **AUA AJA ALA AAA AUJ ALJ AAJ** AJJ **JUU** JLU **JAU** JJU JUL JLL JAL JJL J U/L/A/J **JUA** JAA JLA JJA JUJ JLJ **JAJ** JJJ These Emotion amino acids express various changes of the Emotion DNA

**Table 3. Amplification of Catharsis** 

# 3. Mutation of Emotion Codes

The last line of the Sijo says, "That water is going to flow back". This means that sadness goes to up to the emotional situation that lovers had loved together in the past. So constantly flowing of 'that water' backward make the sadness codes changed as Love codes. This result shows mutation of emotion codes as following table 4.

Second base →	U	L	A	J	Second base ←
First base	UUU UU <mark>L</mark> UUA UUJ	ULU ULL ULA ULJ	UAU UAL UAA UAJ	UJU UJ <b>L</b> UJA UJJ	Third base ↓ U/L/A/J

**Table 4. Mutation of Emotion Codes** 

L	LUU LUL LUA LUJ	LLU LLL×∞ LLA LLJ	LAU LAL LAA LAJ	LJU LJL LJA LJJ	U/L/A/J
A	AUU AUL AUA AUJ	ALU ALL ALA ALJ	AAU AAL AAA AAJ	AJU AJL AJA AJJ	U/L/A/J
J	JUU JU <mark>L</mark> JUA JUJ	JLU JLL JLA JLJ	JAU JAL JAA JAJ	JJU JJ <b>L</b> JJA JJJ	U/L/A/J
These Emotion amino acids express various changes of the Emotion DNA					

#### 4. Conclusion

In this study, we found that Sijo's Emotion performs the purification of our mind. Purification of mind made the sadness emotion to loving emotion. The result was by the emotion's spawning, gathering, amplification. If we infer from the codon, the severe sadness emotion is seen to make loving emotion by activating other emotion codes. This result is same that human hopes loving emotion in the death motif of literary metaphor. So if we study this point, perhaps in the future, we can beat pain such as death and upgrade the literary therapy.

To cure humans in the future, we must study that emotion codon showing. And our emotions will be able to communicate with AI emotions deeply learned by humans. At that time, AI will be able to cure human's emotion and body. Therefore, by studying this continuously, we will be able to upgrade our lives further with literary therapy.

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