Supplementary Materials S1

Text S1

Sphingolipids are biologically active lipids that play important roles in various cellular processes and the sphingomyelin metabolites ceramide, sphingosine and sphingosine-1-phosphate can act as signalling molecules in most cell types. With the recent development of the immunosuppressant drug FTY720 (Fingolimod) which after phosphorylation in vivo acts as a sphingosine-1-phosphate receptor agonist, research on the role of sphingolipids in the immune and other organ systems was triggered enormously. Since it was reported that FTY720 induced a modest, but significant transient decrease in heart rate in animals and humans, the question was raised which pharmacological properties of drugs targeting sphingolipid signalling will affect cardiovascular function in vivo. The answer to this question will most likely also indicate what type of drug could be used to treat cardiovascular disease. The latter is becoming increasingly important because of the increasing population carrying characteristics of the metabolic syndrome. This syndrome is, amongst others, characterized by obesity, hypertension, atherosclerosis and diabetes. As such, individuals with this syndrome are at increased risk of heart disease. Now numerous studies have investigated sphingolipid effects in the cardiovascular system, can we speculate whether certain sphingolipids under specific conditions are good, bad or maybe both? In this review we will give a brief overview of the pathophysiological role of sphingolipids in cardiovascular disease. In addition, we will try to answer how drugs that target sphingolipid signalling will potentially influence cardiovascular function and whether these drugs would be useful to treat cardiovascular disease.

Text S2

A possible approach to control of bovine lymphoproliferative disease caused by bovine leukaemia virus (BLV) may be the development of an "antiviral information immunity" based on the effect of anti-sense RNA (asRNA). A numbers of constructs were obtained, under control of various promotors (herpesvirus thymidine kinase, T-antigen SV40 promoter), carrying as DNA against gene X, the expression product of which is a transactivator of viral transcription from the BLV LTR promotor. As a model system for the analysis of antiviral activity of constructs developed, cloned continuous cell lines of BLV-producing FLK cells were used. The level of BLV expression in cells transfected with the constructs was determined by various parameters. Differences were detected in different clones obtained from non-transfected cells, as well as variation between transfected clones, as measured by reverse transcriptase, competitive radio-immunoassay for BLV p24, the viral particle count on agar membrane, and the tumorigenicity for nude mice. The differences in inhibition of expression of BLV genes and their products may be explained in terms of the site of integration of asDNA and the number of integrated copies.

Supplementary Materials S2

Supplementary Materials 2 contains the results of the statistical analysis for the three parameters of narrativity in each corpus by decade. A two way ANOVA assay was performed on the parameter value, considering the decade of publication - C(decades) - and the abstract segment – C(segment) - as independent variables and their interaction C(decades): C(segment).

Their results are reported in the following tables A). sum_sq= Sum of squares; df= degrees of freedom; F= F ratio; p= p value. Dunn post tests were performed on each segment by decade and their pairwise results are contained in tables B.

Primary studies

Staging

A)

	sum_sq	df	F	p
C(decades)	3.341831e+03	4.0	0.573256	0.682039
C(segment)	2.940276e+07	4.0	5043.738245	0.000000
C(decades):C(segment)	2.645592e+06	16.0	113.455976	0.000000
Residual	4.349884e+09	2984710.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	3.379383e-09	1.000000e+00			
2020s	4.445644e-05	5.396295e-01	1.000000e+00		
80s	3.571508e-31	2.228524e-49	4.925385e-35	1.000000e+00	
90s	3.643519e-14	2.214087e-41	9.137304e-18	1.134026e-13	1.000000e+00

Segment 2

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	1.146452e-19	1.000000e+00			
2020s	1.077163e-18	5.890550e-04	1.000000e+00		
80s	8.959525e-03	2.693468e-02	2.174483e-05	1.000000	
90s	7.801603e-02	1.616126e-26	1.329444e-22	0.000450	1.000000e+00

Segment 3

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	5.565663e-14	1.000000e+00			
2020s	2.850303e-07	4.643897e-01	1.000000e+00		
80s	1.113970e-17	2.424130e-36	1.394234e-26	1.000000e+00	
90s	5.895582e-22	7.551856e-66	1.943407e-27	1.134621e-03	1.000000e+00

Segment 4

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	4.094851e-12	1.000000e+00			
2020s	6.812183e-11	1.503142e-02	1.000000e+00		
80s	1.568934e-06	1.535797e-17	7.409355e-18	1.000000e+00	
90s	1.966117e-16	6.454798e-52	5.043501e-30	7.734510e-01	1.000000e+00

Segment 5

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	5.988519e-01	1.000000e+00			
2020s	5.988519e-01	4.860467e-01	1.000000		
80s	2.213114e-06	6.168072e-07	0.000745	1.000000e+00	
90s	3.698183e-09	1.573153e-10	0.002815	1.794960e-01	1.000000e+00

Plot progression

A)

	sum_sq	df	F	p
C(decades)	1.643277e+04	4.0	2.834756	0.023007
C(segment)	9.597566e+07	4.0	16556.399146	0.000000
C(decades):C(segment)	1.856689e+07	16.0	800.726151	0.000000
Residual	4.325510e+09	2984710.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	80s	\
2000s	1.000000e+00				
2010s	5.047295e-297	1.000000e+00			
2020s	9.860913e-242	4.110904e-31	1.000000e+00		
80s	6.444574e-183	0.000000e+00	0.000000e+00	1.000000e+00	
90s	7.587486e-192	0.000000e+00	0.000000e+00	2.816054e-36	

	90s
2000s	
2010s	
2020s	
80s	
90s	1.000000e+00

Segment 2

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.000244	1.000000e+00			
2020s	0.004233	4.939907e-01	1.000000e+00		
80s	0.355114	3.948432e-03	4.232725e-03	1.000000	
90s	0.000010	1.141603e-16	4.449724e-08	0.149243	1.000000e+00

Segment 3

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	9.035700e-11	1.000000e+00			
2020s	7.381137e-11	5.819412e-03	1.000000e+00		
80s	3.306047e-14	1.735356e-28	8.763570e-28	1.000000e+00	
90s	1.259654e-09	1.527892e-35	4.136993e-24	1.832165e-05	1.000000e+00

Segment 4

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	2.551410e-64	1.000000e+00			
2020s	1.033000e-42	1.611327e-04	1.000000e+00		
80s	4.817427e-31	3.092887e-95	5.122814e-84	1.000000e+00	
90s	5.633688e-31	2.472127e-177	6.465907e-94	1.809832e-07	1.000000e+00

Segment 5

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	1.100791e-76	1.000000e+00			
2020s	6.051525e-56	1.196152e-06	1.000000e+00		
80s	7.671039e-14	1.639781e-68	1.986126e-69	1.000000e+00	
90s	5.148503e-47	5.897317e-237	2.361065e-130	6.831976e-01	1.000000e+00

Cognitive tension

A)

	sum_sq	df	F	p
C(decades)	2.454175e+05	4.0	39.251806	6.420598e-33
C(segment)	1.287666e+08	4.0	20594.787756	0.000000e+00
C(decades):C(segment)	5.420845e+06	16.0	216.751000	0.000000e+00

	sum_sq	df	F	p
Residual	4.665391e+09	2984710.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	2.133243e-18	1.000000e+00			
2020s	9.569082e-10	3.318501e-01	1.000000e+00		
80s	4.290736e-73	2.125878e-115	5.514180e-81	1.000000e+00	
90s	3.535659e-18	4.374692e-68	1.614744e-29	3.668346e-40	1.000000e+00

Segment 2

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	4.905126e-37	1.000000e+00			
2020s	2.474849e-41	1.605932e-09	1.000000e+00		
80s	3.895537e-17	1.364150e-52	1.964762e-62	1.000000e+00	
90s	1.013433e-38	1.845817e-145	9.870384e-100	2.022125e-01	1.000000e+00

Segment 3

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	2.187250e-06	1.000000e+00			
2020s	2.785632e-13	8.815355e-06	1.000000e+00		
80s	1.427435e-01	2.626186e-01	3.339714e-05	1.000000	
90s	8.287381e-04	3.953563e-16	2.265583e-20	0.000856	1.000000e+00

Segment 4

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	1.066441e-22	1.000000e+00			
2020s	1.844771e-21	1.656723e-04	1.000000e+00		
80s	2.896061e-57	2.680379e-100	1.183807e-87	1.000000e+00	
90s	1.030122e-45	2.925488e-127	3.778568e-72	3.854380e-16	1.000000e+00

Segment 5

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	8.154084e-09	1.000000e+00			
2020s	1.778600e-07	8.042415e-02	1.000000e+00		
80s	3.963599e-06	1.781152e-01	8.259365e-01	1.000000	
90s	3.641543e-01	1.286481e-06	2.380630e-06	0.000044	1.000000

Reviews

A)

Staging

	sum_sq	df	F	p
C(decades)	4.292025e+03	4.0	0.731666	5.701719e-01
C(segment)	1.623547e+07	4.0	2767.679253	0.000000e+00
C(decades):C(segment)	1.505440e+06	16.0	64.158527	2.554705e-208
Residual	3.984296e+09	2716830.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	80s	90s
2000s	1.000000e+00				
2010s	1.613498e-04	1.000000e+00			
2020s	5.527008e-08	1.183955e-03	1.000000e+00		
80s	3.825345e-02	6.049761e-05	3.362066e-08	1.000000e+00	

```
90s    3.185497e-05  2.203725e-15  2.101435e-15  8.174144e-01  1.000000e+00
```

Segment 2

```
          2000s     2010s     2020s       80s       90s
2000s  1.000000
2010s  0.614624  1.000000
2020s  0.282380  0.408383  1.000000
80s    0.282380  0.270748  0.194708  1.000000
90s    0.880278  0.677097  0.290243  0.282380  1.000000
```

Segment 3

```
          2000s         2010s     2020s       80s           90s
2000s  1.000000
2010s  0.000791  1.000000e+00
2020s  0.031389  9.086308e-01  1.000000
80s    0.024964  6.590664e-05  0.000749  1.000000
90s    0.000015  8.751287e-15  0.000002  0.908631  1.000000e+00
```

Segment 4

```
          2000s     2010s     2020s       80s       90s
2000s  1.000000
2010s  0.071595  1.000000
2020s  0.071595  0.501754  1.000000
80s    0.054388  0.004227  0.004227  1.000000
90s    0.730259  0.056545  0.060667  0.056545  1.000000
```

Segment 5

```
             2000s         2010s         2020s           80s           90s
2000s  1.000000e+00
2010s  2.456591e-15  1.000000e+00
2020s  3.289679e-23  1.581656e-07  1.000000e+00
80s    3.628433e-12  1.779000e-28  1.927656e-37  1.000000e+00
90s    6.042282e-18  1.772178e-60  4.647381e-52  2.554725e-02  1.000000e+00
```

Plot progression

A)

	sum_sq	df	F	p
C(decades)	2.334271e+03	4.0	0.396748	8.111280e-01
C(segment)	3.489502e+07	4.0	5930.988014	0.000000e+00
C(decades):C(segment)	9.805250e+05	16.0	41.664127	1.689431e-131
Residual	3.996123e+09	2716830.0	NaN	NaN

B)

Segment 1

```
             2000s         2010s         2020s           80s           90s
2000s  1.000000e+00
2010s  4.131156e-22  1.000000e+00
2020s  1.706877e-23  2.387764e-05  1.000000e+00
80s    9.577273e-04  5.470178e-17  4.969493e-23  1.000000e+00
90s    1.584021e-03  1.001154e-35  2.548294e-32  1.064991e-01  1.000000e+00
```

Segment 2

```
          2000s     2010s     2020s       80s       90s
2000s  1.000000
2010s  0.040856  1.000000
2020s  0.347530  0.641373  1.000000
80s    0.482441  0.090976  0.271641  1.000000
90s    0.347530  0.271641  0.674346  0.271641  1.000000
```

Segment 3

```
          2000s     2010s     2020s       80s       90s
2000s  1.000000
2010s  0.000582  1.000000
2020s  0.030213  0.932789  1.000000
80s    0.932789  0.051135  0.079923  1.000000
90s    0.882595  0.000232  0.017601  0.968724  1.000000
```

Segment 4

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.958479	1.000000			
2020s	0.958479	0.958479	1.000000		
80s	0.958479	0.958479	0.958479	1.000000	
90s	0.958479	0.958479	0.958479	0.958479	1.000000

Segment 5

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.001132	1.000000e+00			
2020s	0.000003	5.172657e-03	1.000000e+00		
80s	0.222392	3.256604e-03	1.452606e-05	1.000000	
90s	0.000021	7.985997e-14	1.914663e-13	0.269694	1.000000e+00

Cognitive tension

A)

	sum_sq	df	F	p
C(decades)	4.486894e+03	4.0	0.701033	5.911194e-01
C(segment)	4.591984e+07	4.0	7174.527723	0.000000e+00
C(decades):C(segment)	5.503963e+05	16.0	21.498513	1.883054e-63
Residual	4.347199e+09	2716830.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.000001	1.000000e+00			
2020s	0.000005	9.007194e-02	1.000000e+00		
80s	0.002339	2.382247e-08	1.675361e-08	1.000000e+00	
90s	0.052092	9.406408e-11	1.801514e-08	5.064251e-02	1.000000e+00

Segment 2

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.146804	1.000000e+00			
2020s	0.866553	4.609690e-01	1.000000		
80s	0.003234	1.491485e-04	0.010470	1.000000	
90s	0.000149	7.981020e-08	0.010470	0.415606	1.000000e+00

Segment 3

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.102323	1.000000			
2020s	0.002410	0.035461	1.000000		
80s	0.023164	0.001996	0.000070	1.000000	
90s	0.001736	0.000002	0.000001	0.580013	1.000000

Segment 4

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.908581	1.000000			
2020s	0.009334	0.006669	1.000000		
80s	0.940691	0.908581	0.108124	1.000000	
90s	0.908581	0.940691	0.006669	0.908581	1.000000

Segment 5

	2000s	2010s	2020s	80s	90s
2000s	1.000000				
2010s	0.174738	1.000000			
2020s	0.008088	0.054882	1.000000		
80s	0.915807	0.439832	0.054882	1.000000	
90s	0.002833	0.054882	0.439832	0.065430	1.000000

All articles

A)

Staging

	sum_sq	df	F	p
C(decades)	1.830785e+03	5.0	0.250676	0.939655
C(segment)	2.750224e+07	4.0	4707.100278	0.000000
C(decades):C(segment)	6.046791e+06	20.0	206.985708	0.000000
Residual	5.720455e+09	3916300.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	70s	80s	90s
2000s	1.000000e+00					
2010s	6.249862e-06	1.000000e+00				
2020s	1.924458e-02	7.676875e-01	1.000000e+00			
70s	9.663527e-79	2.965230e-111	7.713410e-52	1.000000e+00		
80s	3.282018e-108	1.327871e-156	9.138850e-57	4.050721e-01	1.000000e+00	
90s	5.151939e-12	1.450205e-30	7.126509e-11	5.529785e-40	5.843196e-52	1.000000e+00

Segment 2

	2000s	2010s	2020s	70s	80s	90s
2000s	1.000000e+00					
2010s	1.260011e-10	1.000000e+00				
2020s	1.260011e-10	9.087560e-03	1.000000e+00			
70s	1.815574e-09	2.867559e-01	1.101935e-01	1.000000e+00		
80s	2.010534e-04	1.891569e-02	6.757872e-05	4.552011e-03	1.000000	
90s	4.178603e-01	3.249548e-12	1.337892e-11	8.011228e-11	0.000010	1.000000e+00

Segment 3

	2000s	2010s	2020s	70s	80s	90s
2000s	1.000000e+00					
2010s	1.341920e-12	1.000000e+00				
2020s	1.373447e-06	5.457064e-01	1.000000e+00	1		
70s	1.714938e-38	1.807572e-76	1.898564e-40	1.000000e+00		
80s	1.324941e-54	2.683532e-112	2.066568e-46	7.337661e-01	1.000000e+00	
90s	1.198916e-15	1.598197e-51	6.762048e-22	3.809101e-11	1.447922e-14	1.000000e+00

Segment 4

	2000s	2010s	2020s	70s	80s	90s
2000s	1.000000e+00					
2010s	9.053551e-11	1.000000e+00				
2020s	3.506753e-09	3.652470e-02	1.000000e+00			

```
70s    2.177623e-14  8.962615e-37  2.288033e-26  1.000000e+00
80s    7.610270e-28  9.577791e-67  6.331960e-36  2.369152e-01  1.000000e+00
90s    2.230637e-08  1.599097e-33  2.137807e-20  1.282367e-03  4.971611e-08

               90s
2000s
2010s
2020s
70s
80s
90s    1.000000e+00
```

Segment 5

```
             2000s         2010s         2020s           70s           80s  \
2000s  1.000000e+00
2010s  2.485614e-01  1.000000e+00
2020s  1.592048e-01  4.337936e-01  1.000000e+00
70s    3.299839e-21  4.175904e-25  4.071893e-15  1.000000e+00
80s    2.548944e-19  2.597110e-24  3.659334e-12  3.786996e-02  1.000000e+00
90s    3.345467e-10  5.938994e-14  1.826347e-07  7.165271e-06  4.931950e-03

               90s
2000s
2010s
2020s
70s
80s
90s    1.000000e+00
```

Plot progression

A)

	sum_sq	df	F	p
C(decades)	1.030515e+05	5.0	14.270214	5.364011e-14
C(segment)	1.437553e+08	4.0	24883.423494	0.000000e+00
C(decades):C(segment)	3.238351e+07	20.0	1121.089352	0.000000e+00
Residual	5.656263e+09	3916300.0	NaN	NaN

B)

Segment 1

```
              2000s          2010s          2020s           70s  \
2000s   1.000000e+00
2010s  3.480473e-212   1.000000e+00
2020s  3.848590e-163   3.769848e-19   1.000000e+00
70s     0.000000e+00   0.000000e+00   0.000000e+00   1.000000e+00
80s     0.000000e+00   0.000000e+00   0.000000e+00   3.535691e-06
90s    1.334644e-163   0.000000e+00   0.000000e+00  2.975342e-134

               80s            90s
2000s
2010s
2020s
70s
80s     1.000000e+00
90s    1.030424e-132   1.000000e+00
```

Segment 2

```
          2000s         2010s         2020s           70s       80s  \
2000s  1.000000
2010s  0.008070  1.000000e+00
2020s  0.007783  2.749887e-01  1.000000e+00
70s    0.000087  5.077306e-02  7.253255e-01  1.000000e+00
80s    0.282859  3.694034e-04  1.115493e-03  3.491908e-06  1.000000
90s    0.000042  8.911383e-12  3.467974e-07  1.074483e-12  0.003749

               90s
2000s
2010s
```

```
2020s
70s
80s
90s    1.000000e+00
```

Segment 3

```
              2000s         2010s         2020s           70s           80s  \
2000s  1.000000e+00
2010s  1.540843e-12  1.000000e+00
2020s  2.503242e-07  3.103984e-01  1.000000e+00
70s    3.363392e-49  1.897270e-91  9.586661e-50  1.000000e+00
80s    8.191378e-33  6.719727e-79  3.392346e-35  7.275742e-07  1.000000e+00
90s    8.929902e-07  8.191378e-33  6.891927e-16  2.915038e-27  1.540843e-12

               90s
2000s
2010s
2020s
70s
80s
90s    1.000000e+00
```

Segment 4

```
              2000s          2010s          2020s            70s  \
2000s  1.000000e+00
2010s  5.238532e-33   1.000000e+
2020s  1.947804e-27   1.358642e-04   1.000000e+00
70s    4.516174e-67  2.343414e-156  8.764836e-105   1.000000e+00
80s    9.531076e-80  8.907845e-205  6.780215e-110   5.207507e-02
90s    5.989541e-27  9.914174e-114   7.129040e-67   1.532380e-18

                80s            90s
2000s
2010s
2020s
70s
80s     1.000000e+00
90s     5.095302e-17   1.000000e+00
```

Segment 5

```
              2000s          2010s         2020s           70s            80s  \
2000s  1.000000e+00
2010s  4.265413e-52   1.000000e+00
2020s  6.325113e-40   1.953675e-05  1.000000e+00
70s    1.630212e-04   4.275951e-54  1.412056e-47  1.000000e+00
80s    1.451913e-39  2.747473e-170  1.495921e-98  2.695225e-11   1.000000e+00
90s    7.571017e-41  7.823486e-179  1.114864e-99  2.695225e-11   8.630063e-01

                90s
2000s
2010s
2020s
70s
80s
90s     1.000000e+00
```

Cognitive tension

A)

	sum_sq	df	F	p
C(decades)	1.022364e+06	5.0	129.005819	3.857841e-137
C(segment)	1.423752e+08	4.0	22456.818177	0.000000e+00
C(decades):C(segment)	1.218799e+07	20.0	384.481912	0.000000e+00
Residual	6.207293e+09	3916300.0	NaN	NaN

B)

Segment 1

	2000s	2010s	2020s	70s	\
2000s	1.000000e+00				
2010s	1.116428e-03	1.000000e+00			
2020s	3.117660e-03	2.991516e-01	1.000000e+00		
70s	4.108839e-306	0.000000e+00	2.801294e-179	1.000000e+00	
80s	1.347150e-268	0.000000e+00	2.149272e-131	1.505562e-18	
90s	1.319811e-23	7.761279e-41	2.928095e-19	3.124049e-188	

	80s	90s
2000s		
2010s		
2020s		
70s		
80s	1.000000e+00	
90s	2.119548e-137	1.000000e+00

Segment 2

	2000s	2010s	2020s	70s	80s	\
2000s	1.000000e+00					
2010s	1.311948e-22	1.000000e+00				
2020s	1.633904e-26	8.855378e-07	1.000000e+00			
70s	1.725682e-35	2.120988e-89	5.370646e-74	1.000000e+00		
80s	2.957327e-52	1.578096e-134	2.122799e-87	9.018626e-01	1.000000e+00	
90s	7.198552e-25	2.120988e-89	2.118690e-63	1.570824e-05	2.858753e-07	

	90s
2000s	
2010s	
2020s	
70s	
80s	
90s	1.000000e+00

Segment 3

	2000s	2010s	2020s	70s	80s	\
2000s	1.000000e+00					
2010s	1.950014e-08	1.000000e+00				
2020s	2.297240e-15	3.682664e-06	1.000000e+00			
70s	3.304732e-01	8.407044e-04	1.272789e-10	1.000000e+00		
80s	1.483264e-01	1.063100e-04	6.395847e-12	8.365756e-01	1.000000e+00	
90s	7.182002e-06	5.533885e-24	3.573902e-26	7.182002e-06	1.008853e-08	

	90s
2000s	
2010s	
2020s	
70s	
80s	
90s	1.000000e+00

Segment 4

	2000s	2010s	2020s	70s	\
2000s	1.000000e+00				
2010s	1.919265e-11	1.000000e+			
2020s	1.426458e-13	5.060068e-04	1.000000e+00		
70s	6.755987e-51	1.607794e-91	3.702360e-65	1.000000e+00	
80s	9.325594e-119	8.970407e-196	1.743274e-102	2.595384e-04	
90s	1.227359e-29	7.135711e-73	1.397690e-45	1.202163e-09	

	80s	90s
2000s		
2010s		
2020s		
70s		
80s	1.000000e+00	
90s	1.665742e-33	1.000000e+00

Segment 5

	2000s	2010s	2020s	70s	80s	\
2000s	1.000000e+00					
2010s	6.033396e-03	1.000000e+00				
2020s	2.093036e-06	1.832742e-03	1.000000e+00			
70s	1.514429e-11	2.167932e-06	7.084344e-01	1.000000e+00		
80s	7.723703e-03	9.603821e-01	2.310199e-03	5.251277e-06	1.000000e+00	
90s	9.776702e-03	1.712731e-07	4.467045e-10	2.772074e-18	5.314678e-07	

	90s

```
2000s
2010s
2020s
70s
80s
90s    1.000000e+00
```