

Max Savikangas

# Blood Brain Barrier

Sonata for Violoncello and Piano

2004 - 2007

Music Finland



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Max Savikangas:

# **Blood Brain Barrier**

Sonata for Violoncello and Piano

**Veriaivoeste**

sonaatti sellolle ja pianolle

SCORE

2004-2007

Dur. ca. 30 min.



**Max Savikangas: Veriaivoeste, sonaatti sellolle ja pianolle (2005-7), kesto n. 30 min.**

*Blood Brain Barrier, Sonata for violoncello and piano*

Endoteelisoluksen muodostaman veriaivoesteen (Blood Brain Barrier, BBB) tehtävänä on suojella keskushermostoa (aivot, aivorunko ja selkäydin) vaarallisilta aineilta. Jos ne läpäisevät veriaivoesteen, ovat vaikutukset elimistölle dramaattisia. Säteilyn (vaikkapa GSM-puhelimen mikroaaltosäteilyn) on eri tutkimuksissa joko vähätely, epäilty tai todettu häiritsevä veriaivoesteen toimintaa niin, että esimerkiksi raskasmetalleja tai proteiineja pääsee keskushermostoon.

Sonaatti Veriaivoeste sellolle ja pianolle on jatkoa yhteistyölleni Markus Hohdin kanssa. Vuonna 2003 sävelsin Markukselle viisiminuuttisen soolosellosävellyksen Kaliki, ja yhteistyön osoittauduttua hedelmälliseksi käynnistimme laajamuotoiseman sonaattihankkeen.

6-äänisen symmetrisen harmonialähtökohdan lisäksi sävellystyössä tärkeää minulle oli äänenvärvivastakohta-ajattelu. Toisilleen vastakkaisen äänenvärien vaihtelu ja niiden välinen jännite luo teokseen draivia. Äänenväri tässä yhteydessä on ymmärretty laajasti kaikkia äänitapahtuman osatekijöitä kuvaavana yleiskäsitteenä. Esimerkiksi 1. osan muodonassa olen hyödyntänyt suomen kielen äänisanoja äänenvärvivastakohtien määrittelyssä.

Tämäntapainen äänenvärijättelu johti erilaisten soittotapojen suureen määrään. Monenkirjavat soittovat ja soinnit ovat siis keskeinen, suorastaan elimellinen osa tästä musiikkia, eivätkä suinkaan mitään efektejä tai lisämausteita. Vaatii luullakseni kuulijalta hieman totuttua, muutamia kuuntelukertoja, ennen kuin alkaa päästää tästä jyvälle, pintataso taakse. Toki erilaiset uikahdut ja rytmit ovat irti kontekstistaankin itselleni erittäin hauskaa kuunneltavaa, mutta olen tässä teoksessa pyrkinyt todella säveltämään niillä, suhtautunut ilmaisukeinona esim. harmonian kanssa.

Veri, Aivo ja Este. Ääriosat ovat nopeita ja keskiosa hidas, kun kerran sonaatille ryhdyttiin.

... mistettu.



Max Savikangas: Blood Brain Barrier (2004-7)  
Sonata for Violoncello and Piano

To the Players

General:

Accidentals are traditional, they affect all following notes in the same octave in that bar.

Explanations of the special playing techniques for Violoncello indicated in the score:

**Gliss. repetition.** A left hand technique reminiscent of the position change exercise where you have to play the same note with alternating fingers and try to avoid any glissandi sounding out. Here the idea is, instead of avoiding the glissandi, to play them out! This is intended to result in a slightly "electric" sound image (like some electric toy).

**Circular bowing.** The bow, positioned in the upper third, is to be swept in a direction parallel to the strings with a slightly circular, free movement, which starts from the upper arm. The movement is small, fast and can be maintained with rather low amount of muscular energy. This bowing technique is intended to result in a blowing-like sound which however has a short, pitched impulse for each note.

**Scratch.** Exaggerated bow pressure technique *sul ponticello*, intended to result in a high scratching sound, which is more continuous than granular (like DJ scratching with an LP-player).

**Rumble.** Slow bow speed, exaggerated bow pressure, bow close to the fingerboard. Left hand finger pressure is less than normal. This way of playing is intended to result in the note sounding approximately an octave, or, depending of the bow pressure, a major seventh lower than written, with a rumbling sound quality. Brutality is not to be avoided!

**"Koto" pizz.** Try to imitate the sound and playing style of Japanese instrument Koto with pizzicato glissando melismas.

**Bend-buzz-pizzicato.** Bend the C-string sideways with left hand fingers so that the string slips to the side of the fingerboard. Now, when you play pizzicato, this is intended to result in a funny buzzing sound (somewhat like Indian instrument Sitar). Use vibrato for every bend-buzz-pizz. note, which strengthens the buzz remarkably. When *molto vibrato* is marked, make as fast vibrato as you can, which strengthens the buzz even more.

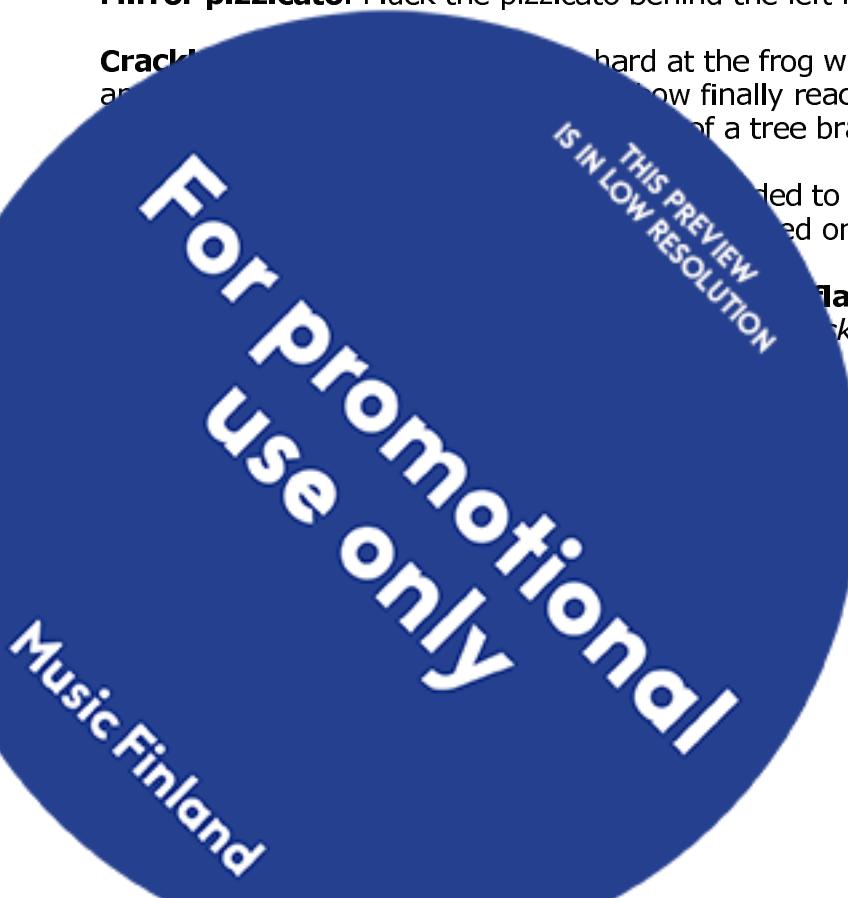
**Mirror pizzicato.** Pluck the pizzicato behind the left hand (in other words: between the left hand and the scroll). The preferred sound image is like an upward disappearing bounce.

**Crackling.** Pluck the C-string hard at the frog with flat hair so that the tip of the bow points to the up left. Now twist the bow slowly in its place, while maintaining the pressure, and the bow finally reaches its normal position. This way of playing is intended to result in a dry, crackling, granular, discontinuous sound, like anticipating the breaking of a tree branch).

**Flageolet.** Played with the bow held to result in high, *whistling and piercing*, somewhat arbitrary flageolet-like sounds. They are not ordinary flageolets, but are to be played with the bow held only half way down.

**Tag.** This denotes a fast, whisking, over-wide arm vibrato, with the left hand finger sliding rapidly along the string, still pressed only half way down, resulting in a whirling, electric guitar feedback-vib.-note like sound.

**Machine.** Pluck the C-string over the bridge and back, resulting in a bursting, machine-like sound.



Commissioned by and dedicated to Markus Hohti

# BLOOD BRAIN BARRIER

## 1. BLOOD

### VERIAIVOESTE

#### 1. VERI

Max Savikangas 2004-5

Allegro furioso  $\text{♪} = 160$

Vlc.

Sul A fino a lettera A      w.w. \*      ord.      gliss.      w.w.      ord.      gliss.      w.w.      ord.      gliss.      w.w.      gliss.      gliss.

**ff** *furioso*      \* whisked whistle,  
see instructions

Allegro furioso  $\text{♪} = 160$

Pn.

Full chromatic cluster (all 88 keys),  
played with a special tool (see instructions).

**ffff** *ped.*      Let sound until rehearsal mark A (ca. 1 min.)

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Vlc.

19

gliss.      gliss.      gliss.      w.w.      ord.      gliss.      w.w.      ord.      gliss.      w.w.      ord.      gliss.      w.w.      ord.

gliss.      w.w.      ord.      gliss.      gliss.      w.w.      ord.      w.w.      ord.      gliss.      w.w.      ord.      gliss.

p      ff      gliss.      p      ff

A

(Allegro furioso  $\text{♩} = 160$ )

Vlc. 43 w.w. ord. ---- w.w. ord. ----- w.w. ord.

Pn. stacc.  $\text{ff}$  3  $\text{ff}$   $\text{mp}$   $\text{ff}$   $\text{mp}$   $\text{mp}$

Vlc. 50 tr gliss. tr gliss. tr gliss. tr w.w. ord.

Pn.  $\text{mf}$  *gargle (kurlaus)* 3  $\text{f}$   $\text{mp}$   $\text{mf}$   $\text{mp}$   $\text{mf}$   $\text{mp}$

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66

Vlc. *f* *mp* *f* w.w. **B** *mf* *whining (mangunta)*

Pn. *mp* *f* **B** *ff*

73 --- poco scratch

Vlc. *f* *mf* *mumbling (jupina)* *p* *whimper (uikahdus)*

Pn. *ff* *p* *ff*

*Ped.* post-pedal: let the chord resonate slightly

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*ff* *p* *ff* *ff*

*gliss. rep.* *gliss.* *mf* *mumbling (jupina)* *f* *1.v.* *howling (ulvonta)*

*ff* *p* *ff* *ff*

*Ped.* post-pedal: let the chord resonate slightly

*Ped.*



79

Vlc. stacc. volante  
*f* *mp* bleating (määintä)  
*(vongahdus)*

Pn. *gliss. rep.* 5  
*mf* mumbling (jupina)

ord. 3  
*ff* *p* *ff* (vongahdus) *pp*

82

Vlc. ord. *gliss. rep.* 5  
*ff* *pp* *mf* mumbling (jupina)  
*(vongahdus)*

Pn. *gliss. rep.* 3 5  
*ff* *pp* *mf* whining (mangunta)

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C 3 8 f  
C 3 8  
Pn. 3 8  
stacc.  
*p* *f*  
*Led.* post-pedal: let the note resonate slightly

91

Vlc. w.w. ord.

Pn. stacc. post-pedal: let the note resonate slightly *ped.* mf 3

w.w. ord.

stacc. post-pedal: let the note resonate slightly *ped.* mf 3

f

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97

w.w. ord.

w.w.

Capriccioso  $\text{♩} = 84$

Capriccioso  $\text{♩} = 84$

stacc.

Pn.

103

mp

f ff mp f ff mf tr mp

Pn.

111

f tr mp f f tr mp f tr mp f tr mp

Pn.

119

mf f ff tr tr tr tr

Pn.

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SAVIKANGAS: Blood Brain Death Score, 1st mov.

6

**D**

128 Vivo  $\text{♩} = 108$

Vlc. *molto sul tasto* *Bartok pizz.* *arco poco sul pont., "tight sound"* *Bartok pizz.*

*f* *mf* *tooting (tuuttailu)* *ff slapping (läiske)* *mf beeping (tytäily)* *ff slapping (läiske)*

**D**

Vivo  $\text{♩} = 108$

Pn. *étoffé (damp strings from the inside) near the bridge* *ord.* *ord.* *ord.*

*f* *ord.* *étoffé* *ord.*

*mf* *Ped.*

**E**

137 *arco* *detaché, marcato*

Vlc. *p* *f*

**E**

Pn. *p* *p* *ffff* *secco* *mp* *f*

*damped pizz.*  
(kill the sound by decreasing  
left hand finger pressure)

*quasi f* *popping (poukahelu)*

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**F Piu mosso  $\text{♩} = 126$**

suono

148 arco ord.

Vlc. *f* creaking (natina)

Pn. *mp* *f* *fff* *p*

**F Piu mosso  $\text{♩} = 126$**

crackle *f* *ord.* *III ord.* *II ord.* *f* *ord.* *IV ord.* *f*

156 crackle

Vlc. *f* *IV ord.* *crackle* *IV ord.* *crackle* *ord.* *f* *crackle* *IV ord.* *crackle* *IV ord.*

Pn. *pppp* *una corda*

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"Indian" accompaniment  
(rubato, independent of the vlc. part)



162

Vlc.      crackle      I ord.      crackle      III ord.

Subito meno mosso ♩ = 80

**G** Furioso ♩ = 138

Pn.      Subito meno mosso ♩ = 80      secco      **G** Furioso ♩ = 138

Vlc.      ff      mf

173

Vlc.      ff

A Tempo I ♩ = 160

Pn.      ff

A Tempo I ♩ = 160

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vertical bowing

8va

8va

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I

Andante  $\text{J} = 69$

A brief and unexpected  
homage to Fartein Valen

193 ord.

Vlc.  $p$

Pn.  $p$

A brief and unexpected  
homage to Fartein Valen

Andante  $\text{J} = 69$

$f$

$p$

$mp$

$mp$

$mp$

$mp$

200

Vlc.  $f$

$mp$

$mf$

$f$

Pn.  $f$

$3$

$mf$

$mp$

$mp$

$3$

$p$

Vcl.  $mp$

$mf$

$sub. p$

$3$

$3$

$mf$

$mp$

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**J**

208 Vlc. *mp* *f* (End of homage to F.V.) *ff*

**J**

Pn. (End of homage to F.V.) *ff*

**K**

Allegro  $\text{d} = 96$  sautillé sul tasto *ord.* *3* *3* whir (huraus) *mp* *f* with nail from the (outer) side of the string slide-vib. distortion (särähately)

217 Vlc. *slide-vib.* *tr* *mmmmmm* *ord.* *rubato* *3* *3* *f* *mf* *f* *ritmico*

224 Vlc. *detaché* *stacc.* *pizz.* *I* Bartok pizz. *pizz.* *ord.* *Bartok pizz.* *pizz.* *ord.* *Bartok pizz.* *pizz.* *ord.* *Bartok pizz.* *pizz.* *ord.* *Bartok pizz.* *pizz.* *ord.*

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Bartok pizz. *pizz.* *ord.* *IV* Bartok pizz. *pizz.* *III* *ord.* *IV* Bartok pizz. *pizz.* *III* *ord.* *I* Bartok pizz. *pizz.* *ord.* *I* Bartok pizz. *pizz.* *ord.* *IV* Bartok pizz. *pizz.* *ord.* *IV* Bartok pizz. *pizz.* *ord.* *II* *crackle* *ord.* *scratch*

frizzling (kärinä) *ff* screech (kirsakahdus) *a tempo* distortion (särähately)

behind the bridge, on the winding (punos)

IV IV IV IV

SAVIKANGAS: Blood Brain Barrier / Veriaivoeste - Score, 1st mov.

**L**  
**A Tempo I** ♩ = 160  
 Vlc. 239 ff w.w. w.w.  
**L**  
**A Tempo I** ♩ = 160  
 Pn. ff v.v. 8vb 8vb 8vb 8vb  
 Vlc. 245 tr w. w.w. w.w. w.w. w.w. w.w.  
 Pn. 8vb v.v.  
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Vlc. *w.* *tr* *ff* hissing (kihahelu)

Pn. (8) *pp*

264 ord. poco scratch *mp* grumbling (marina)

Vlc. *N* *w.* *tr* *ff* hissing (kihahelu)

Pn. (8) *pp* *mp* play arpeggio during the glissando  
arco tab. arco ord. damped gliss.  
*mp* swish (suihkaus)



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270

**O**

play arpeggio  
during the glissando

Vlc.

pizz. Bartok  
ord. pizz. ord.  
pizz. Bartok  
ord. pizz.

arco ord.  
damped gliss.

pizz. Bartok  
ord. pizz.  
pizz. Bartok  
ord. pizz.

arco ord.  
damped gliss.

Bartok  
pizz.

*swish (suihkaus)*

**O**

Pn.

**P**

277

arco  
w. 3

Vlc.

*ff*

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## 2. BRAIN

### 2. AIVO

**Andante** ♩ = 60

Vlc. crinkle arco s.p. damp c-string n.v. l.h. knock on the neck **1** crinkle arco s.p. damp c-string n.v. **2** ord. 1 stacc. **3** port.

crinkle **1** **2** **3**

**Andante** ♩ = 60 knock under the keyboard **1** **2** **3**

quasi **f** étouffée (damp strings from the inside) near the bridge **3** wipe glissando on the strings with fingertips **3** ord.

Ped.

**p** **f**

**4** crinkle ord. l.h. pizz. arco iv sul tasto "pan" ord. accel

**ff** **mf** **pp** **mf**

arp.

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flautando **tr** **mf** **fp** **mf** **f**

arp. non arp. **mf** **f** **mf** **f**

**f** **mf** **fp** **mf** **f**

Ped. Ped. Ped. Ped.

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19

ff *f* *mf* flautando *tr* *tr* rit. *a tempo* **6** *serio* *mf*

*ff* *f* *mf* rit. **6** *a tempo* *mf* *mp* *Ped.*

*Ped.*



27

p  
f  
mf  
Ped.  
mp

30

pizz.  
gliss.  
arco  
Ped.  
ff  
f  
mp  
f  
mf  
mp  
f  
mp  
mf

36

7  
ff  
f  
fp  
mf  
p sub.  
pp  
p  
mf  
mp  
p



46

8 rit. ----- accel.

8 rit. ----- accel.

*f rubato*

Ped. Ped. Ped. Ped.

50 a tempo rit. ----- accel. ----- a tempo rit. ----- accel. -----

a tempo rit. ----- accel. ----- a tempo rit. ----- accel. -----

Ped. Ped. Ped. Ped. Ped. Ped. Ped. Ped.

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molto  
sul pont.

ff

sul tasto "pan"

pp

mp

8va

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55

*sul tasto "pan", free bowing*

*molto sul pont.*

*sul tasto "pan"*

*ord.*

*f*

*ff*

*f*

*8vb*

*rumble*

*ord.*

*gliss.*

*mp*

*3*

(8)-----

*8vb*

64

**9**

**9**

*ff*

*f*

*secco*

*tr*

*8vb*

*iv* *gliss.*

*gliss.*

*soft rumble*

*gliss.*

*gliss.*

*gliss.*

*gliss.*

*stacc. secco*

*crackle*

*ord.*

*rumble*

*crackle*

*ord.*

*rumble*

*crackle*

*ord.*

*rumble*

*ord. marcato*

*ff*

*3*

*3*

*8vb*

*stacc. secco*

*8vb*

*Leo.*

*Leo.*

*crackle*

*ord.*

*rumble*

*crackle*

*ord.*

*rumble*

*crackle*

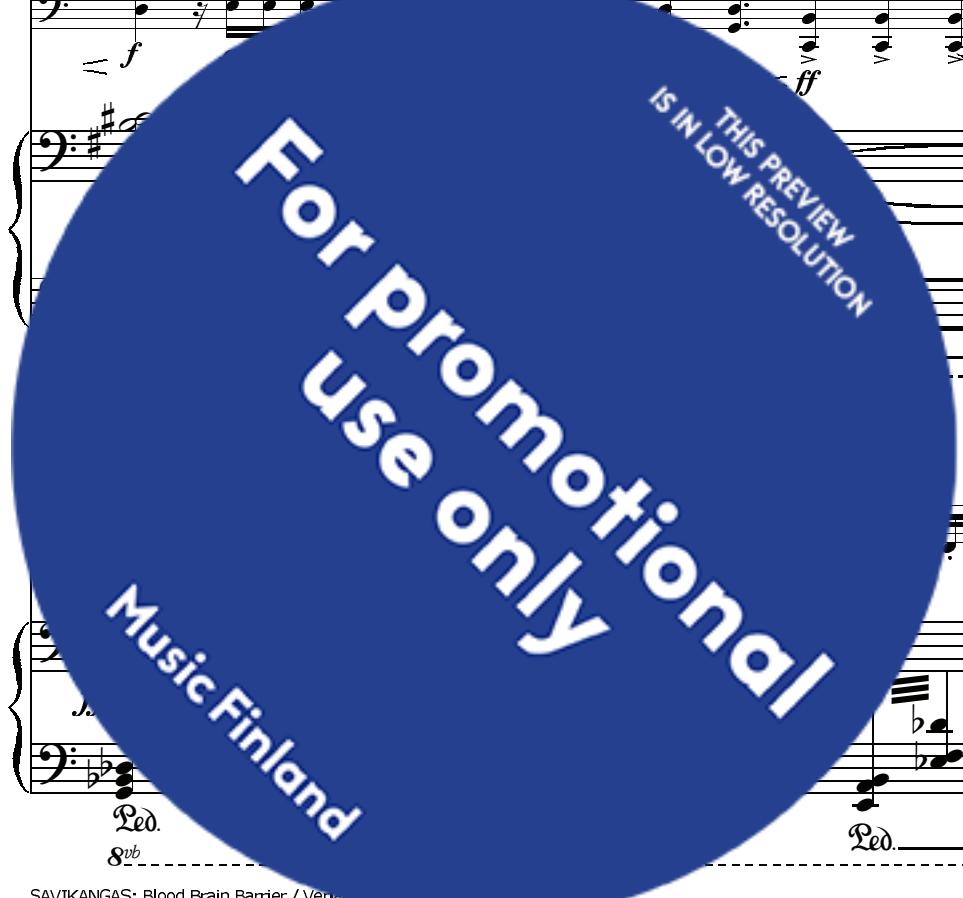
*ord.*

*rumble*

*ord. marcato*

*ff*

*3*



75

gliss.  
gliss.

*f*

*ff* étouffé (damp strings from the inside)  
near the bridge

(8) Ped. Ped. Ped. Ped. Ped. Ped. Ped. Ped.

8<sup>vb</sup>

84

damped pizz.

*mf*

*fff*

étoffé (damp strings from the inside)  
near the bridge

*mf* 3 3 3 3 3 3 3 3

8<sup>vb</sup>

(8) ord. ff ff ff ff ff ff ff ff

ord. poco s.p.  
iv  
*ff* duro

rumble  
*tr* gliss.

10

10

8 8 8 8 8 8 8 8

*ff* *fff* *fff* *fff* *fff* *fff* *fff* *fff*

(8)

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*tr* *tr* *tr* *mf* *f* *ff* *port* *cantabile* *mp sub.*

106

pizz. Bartok *mf* *ff* *3* *rumble* *ord.*

*f* *ff* *tr* *mf* *ff* *stacc.* *secco* *6* *f* *ff*

112 [11] bend-buzz-pizz. *mf*

[11]

*p* *mf* *Ped.* *mf* *p* *Ped.* *arco ord.* *f* *8vb*

*mf* *p* *f* *p* *f* *p* *f* *p*

*Ped.* *(8)* *Ped.*

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12

*f p f p*

*f p f p f p f p*

Sustain pedal  $8vb$

12

*f*

*ff*

Sustain pedal

Sustain pedal

Sustain pedal

124

rit.

*p*

*ppp tremolo fitto*

*quasi f*

wipe all strings rapidly  
with l.h. flat fingers

12

*a tempo*

*l.h. damped IV*

*ord.*

*f*

*ff*

13

*rit.*

*mp*

*p*

*a tempo*

*ff*

*f*

*ff*

*13*

*6*

*tr.*

*ff*

*14* crackle arco s.p.  
l.h. damped n.v.

*14* knock under the  
keyboard

*14* ord.  
dolce

*rit.* al niente

*14* crackle arco s.p.  
l.h. damped n.v.

*14* knock under the  
keyboard

*14* ord.  
dolce

*rit.* al niente

*14* crackle arco s.p.  
l.h. damped n.v.

*14* knock under the  
keyboard

*14* ord.  
dolce

*rit.* al niente



### 3. BARRIER

#### 3. ESTE

**Vlc.** *Vivo*  $\text{♩} = 112$

*feroce* *gliss.* *rumble* *espressivo* *ord.* *pizz.* *arco non vib.* *molto vib.* *non vib.*

sounds two octaves and a fifth higher (note F)

**Pn.** *Vivo*  $\text{♩} = 112$

*duro* *8va* *ff* *ff*

*ff* *ff*

*8vb*

*Legd.*

**Vlc.** *mf* *gliss.* *vib.* *non vib.* *tr.* *I* *15ma* *rit.*

*p(ecco)* *f* *mf*

**Pn.** *p* *ff*

**Vlc.** *scratches* *ord.* *scratches* *ord.*

*f* *mf* *f* *mf*

**Pn.**

*Legd.* *8vb*



17 (15) molto vib. non vib. scratch ord. **brutale** *subito molto meno mosso rumble* **a tempo stratosfera** **ord.** **15ma** **mf** **a tempo** **8va**

(8) f mf f mf f mf

(8) 4 4 4 4 4 4 4

25 (15) scratch ord. molto vib. non vib. **Lento** **B** *feroce* **Lento** **B** *elagante* **J = 58** **J = 60**

(8) f mf f f ff f f

(8) 4 4 4 4 4 4 4

31 (15) **sempre sul A** molto vib. non vib. **J = 63** **ff** **J = 60**

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**sensibile, rubato**

39

*elegante, a tempo* salt.

$\text{J} = 72$  ord. non vib. molto vib. non vib. secco molto vib. non vib. salt.

*mf* *f* *mp* *f* *mf* *f* *mf*

43 (t5) ord. non vib. molto vib. non vib. secco molto vib. non vib.  $\text{J} = 80$  *Andante* *feroce* *crackle*

*f* *mf* *f* *mf* *f* *mf* *f* *ff* *mf*

48 *serio* *ord. vib.* II I *mistico* *non vib.* II I  $\text{J} = 84$  *serio* *ord.* *vib.* I  $\text{J} = 84$  *crackle* *f* *mf* *f* *mp*

58

*gliss.* 3 *ff* *p* *mf* *mp* *(ric.)* *f* *mf* *f*

*mistico*  
ricochét

*I* *II*  
ord.  
non vib.

*J = 88*

*f* *2*

*J = 88*

62

*ff* *3* *5* *gliss.* *mp* *p* *f* *mf*

*II* *I* *V*

*serio*  
vib.

*gliss.*

*mistico*  
non vib.

*I* *II* *I* *II* *crackle*

*67*

*serio*  
vib.

*f* *I* *mf* *f* *mp*

*I* *II* *I* *III* *II* *III* *I* *II* *III* *IV*

*gliss.* *f* *p* *f* *mf* *f* *mf*

*notes two octaves and  
a major third higher (note E)*

*notes two octaves higher  
(a 1/4-step flat note F)*

*serio*  
vib.

*gliss.* *f* *f*

*mistico*  
non vib.

*I* *II* *III* *IV*



78

*serio*  
molto vib.

Moderato  
**D** feroce  
**D** *Moderato*  $\text{♩} = 100$

*f* *ff* *f* *ff* *parlando*  
vib. *sul pont.* *ord.*

*mf* *p* *6* *mf*

83

$\text{♩} = 104$  port.  
*ff* *f* *mp* *mf* *vib.* *sul pont.* *6* *3* *ord.*  
 $\text{♩} = 104$

*ff* *f* *mp* *mf* *f* *p* *f* *mp* *mf*

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*mistico*  
non vib.  
I II

I  
*ff* *parlando*  
vib.

*parlando*  
*f*

*MusicFinland*

**All trills ½-step higher ("vibrato trills")**  
**I ricochet**

**All trills ½-step higher**  
**All trills ½-step higher**

**elastico**  
 non vib.  
 sul tasto, flaut.  
**II**

**Glissandi with finger alteration**  
**espressivo**  
 vib.  
 ord.

**elastico**  
 flaut., non vib.  
**II**

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**SAVIKANGAS: Blood Brain**

**6**



128

(8)

*capriccioso*

pizz.

*f*

*mf*

*molto vib.*

*ff*

*mf*

*triste*

*arco vib.*

*mp*

*mf*

*p*

*mf*

*p*

*mf*

*f*

*sensibile, rubato*

*sul pont.*

*ord.*

*f p*

*f*

*8va sensibile, rubato*

*f p*

*f p*

*flaut.*

*pp*

*ppp*

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133

*f*

*pp*

*ppp*

*capriccioso*

pizz.

*mf*

*f*

*mf*

*5*

*p*

*f*

*5*

*mf*

*p*

*f*

*5*

*mf*

*p*

*f*

*5*

*mf*

*p*

*f*

*5*

*mf*

*p*

*f*

*5*

154 *pesante*  
 (pizz.) bend-buzz-pizz. molto vib.  
 ff mf

= 152 tremolo fitto *svolazzare*  
*sostenuto*

160 *a tempo*  
 f p <> f  
 8va *a tempo*  
 mf f p <> f

capriccioso  
 pizz. 1 3 + 2 + 4 + 2 + 4 + 1 3 IV 3 2 4 arco  
 mf

triste  
 arco mp

170 molto vib. **F** Presto  
 arco non vib. f = 160 feroce  
 stratosfera 15ma scratch ord., molto vib.  
 energico ma accurato subito poco meno mosso a tempo  
 spicc. 5 3 3 3 3 nervoso circular bowing  
 mf

*subito poco a tempo*

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**188**

*nervoso circ. bowing*

*energico ma accurato subito poco meno mosso spicc.*

*a tempo*

*poco meno*

*subito poco*

*a tempo*

*poco meno*

**194**

*a tempo*

*poco meno*

*a tempo*

*nervoso circ. bowing*

*energico ma accurato spicc.*

*f*

*a tempo*

*poco meno*

*a tempo*

**201**

*furioso*

*fff tutta forza*

*Hold still, gathering power*

*III IV I II sim.*

*fff tutta forza*

*fff tutta forza*

*fff*

*8va*

*ff*

*8va*

*ff*

*8va*

*ff*

*8va*

*ff*

*8va*

*ff*

**Rед.**

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**MusicFinland**

211

*8va*

(*loco*)

*energico ma accurato*  
spicc.

*poco meno*

*a tempo*

*f*

*poco meno*

*a tempo*

*mf*

220

*poco meno*

*a tempo*

*poco meno*

*a tempo*

*nervoso*  
circ. bowing

*poco meno*

*a tempo*

*energico ma accurato*  
spicc.

*poco meno*

*a tempo*

*mf*

*poco meno*

*a tempo*

*mf*

227

*a tempo*

*f*

*mp*

*mf*

*mf*

*energico ma accurato*  
spicc.

*f*

*poco meno*

*a tempo*

*poco meno*

*a tempo*

*f*

*mf*

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*furioso*

*ff*

*8va*

*J = 184*

*8va*

*J = 184*

*8va*

*J = 184*

*5*

*5*

*5*

*5*

*5*

*5*

*5*

238

I II III IV sim.

(loco)

(loco)

*nervoso*  
molto sul pont.

f

244

sempre molto sul pont.

p f p f ff

ord.

*brutale*  
rumble IV

gliss.

p f p f ff p

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suono

*energico*  
pizz. gliss. mirror pizz.

f mf

ff

Dur. of 3rd mov. ca 8 min.  
Total dur. ca. 30 min.