



K O N I N K L I J K E N E D E R L A N D S E
A K A D E M I E V A N W E T E N S C H A P P E N

Academy Colloquium Deciphering the biology of human musicality through state-of-the-art genomics

Academy Colloquium on Musicality and Genomics

Date: 20-21 June 2019

Venue: KNAW, The Trippenhuis, Kloveniersburgwal 29, 1011 JV Amsterdam ([route description](#))

Programme

Thursday 20 June 2019 (Colloquium day 1)

9:00 a.m.	Registration and Coffee
9:30 a.m.	Introduction <i>Henkjan Honing / Simon Fisher</i>
	Topic 1: Phenotypes of musicality, and how to measure them Chair/ Moderator: <i>Bruno Gingras</i>
9:50 a.m.	Title t.b.a. <i>Ani Patel</i>
10:20 a.m.	The cognitive psychometrics of music and the development of musical abilities <i>Daniel Müllensiefen</i>
10:50 a.m.	Coffee/ tea break
11:10 a.m.	Cross-cultural perspectives on nature and nurture in human music <i>Patrick Savage</i>
11:40 a.m.	Psychology of music in genomic imprinting disorders <i>Sam Mehr</i>
12:10 a.m.	Discussion [Focus: What is the most promising means of carving musicality into components? How can these constituent components be effectively probed in humans?]
1:00 p.m.	Lunch
	Topic 2: Genetic approaches for studying human variation Chair/Moderator: <i>Simon Fisher</i>
2:00 p.m.	Title t.b.a. <i>Dorret Boomsma</i>



2:30 p.m.	Title t.b.a. <i>Miriam Mosing</i>
3:00 p.m.	Title t.b.a. <i>Beate St Pourcain</i>
3:30 p.m.	Coffee/ tea break
3:50 p.m.	The extraordinary genetic variations of musical pitch <i>Isabelle Peretz</i>
4:20 p.m.	Discussion [Focus: How can studies of interindividual variation yield insights into the genetic architecture underlying human musicality? What are the strengths & limitations of diverse approaches, from focused analyses of extreme traits through to large-scale investigations of epidemiological cohorts.]
5:30 p.m.	Reception

Friday 21 June 2019 (Colloquium day 2)

9:00 a.m.	Registration and coffee
	Topic 3: Uncovering biological connections between musicality and other traits Chair/ Moderator: <i>Reyna Gordon</i>
9:30 a.m.	The genetic contribution to the human capacity for rhythm <i>Lea Davis</i>
10:00 a.m.	Genomics approaches for studying musical aptitude and related traits <i>Irma Järvelä</i>
10:30 a.m.	Genetic determinants of timing and auditory sensitivity <i>Sonja Kotz</i>
11:00 a.m.	Coffee/ tea break
11:20 a.m.	The genetic architecture of associations between musical training, musical aptitude and psychological traits <i>Fredrik Ullén</i>
11:50 a.m.	Discussion [Focus: What will pleiotropy with other traits tell us about the evolutionary origins of musicality? If discovered, how can we put to use new knowledge generated from genomic studies regarding shared genetic architecture for musicality, health, and the brain?]
12.40 a.m.	Lunch



**Topic 4: Towards an international consortium integrating musicality
& genomics**

Chair/ Moderator: *Henkjan Honing*

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| 1:40 p.m. | Title t.b.a.
<i>Bruno Gingras</i> |
| 2:10 p.m. | Towards the genomic basis of rhythm: Building blocks of a research program
<i>Reyna Gordon</i> |
| 2:40 p.m. | Musicality and the shifting landscape of 21st century genomics
<i>Simon Fisher</i> |
| 3:10 p.m. | Coffee/ tea break |
| 3:30 p.m. | Pitfalls, prospects & plans
<i>Henkjan Honing</i> |
| 4:00 p.m. | Final discussion
[Focus: Could coordinated activities of leading experts across the world offer substantive new opportunities for uncovering the biological bases of musicality? What are the most effective ways for establishing an international consortium; what should be the overarching goals & major points of focus? What are the prospects & pitfalls of such an endeavour?] |
| 5:00 p.m. | Close |