Joanna Lee

Immunophonology

Immunophonology

The structure of Immunophonology follows a 'normal' immune response or, its alternative, an autoimmune response:

- 1. Pathogen attacks host OR
- 2. An auto immune response triggered
- 3. Innate immune response
- 4. Dendritic Professional Antigen Presenting Cells
- 5. Adaptive immune response

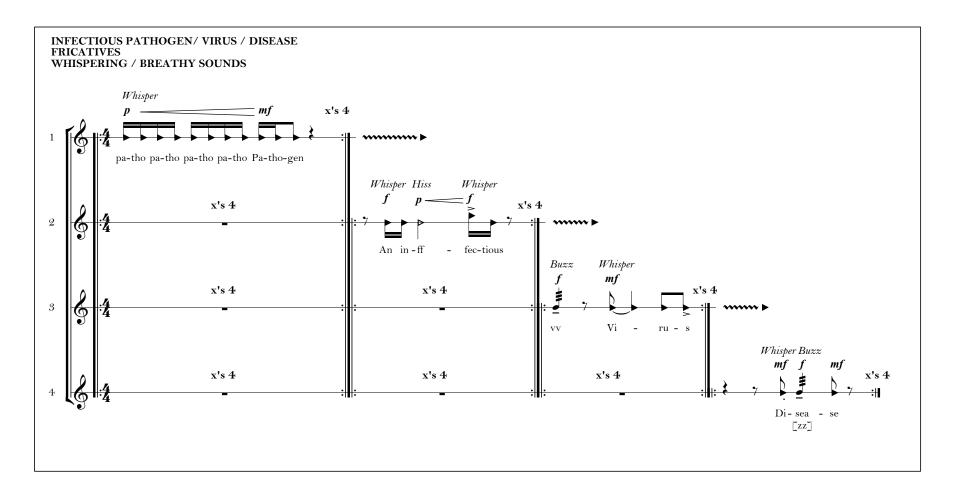
The terminology used in immunology provided the text for the piece and leading on from this, the phonetics and vocal sounds. The chosen words also link to groups within the International Phonetic Alphabet and vocal techniques.

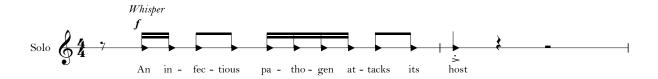
Words	IPA Group	Vocal technique
Pathogen, Infectious, Virus, Disease	Fricatives: th, ff, sh, vv, zz	Whispered
Immunology, Rheumatology, Inflammation, Autoimmune	Vowels: ih, oo, aw, ee, ah Nasals: mm, nn	Chanting & Humming
Examples: Gobble, Gulp, Sizzle, Zap	Onomatopoeia	Eating sounds
Dendritic Professional Antigen Presenting Cells	Plosives: d, p, t	Percussive sounds
T Cells Cytokines B Cells Antibodies	Beatboxing sounds: mm, nn, bm – bass drum; ts –hit-hat; zz – interference; kk – crash cymbal; brrr – bass drum	Beatboxing

Leading on from this, the characters of cells and processes were conveyed through the music. For example, a section about macrophages, which digest foreign bodies, involves eating sounds and onomatopoeia and a section about pathogens, which cause illness and instigate the immune response, involves haunting and menacing whispering.

The work uses small musical cells that layer-up and come together to give an overall picture; this parallels with science (small molecules and cells working together to form something on a grander scale). Above the small musical cells, a linear text occurs providing a narrative of what is happening in the immune response. Thus, the work acts as a teaching tool that verbally tells the story and information about the science.

Immunophonology

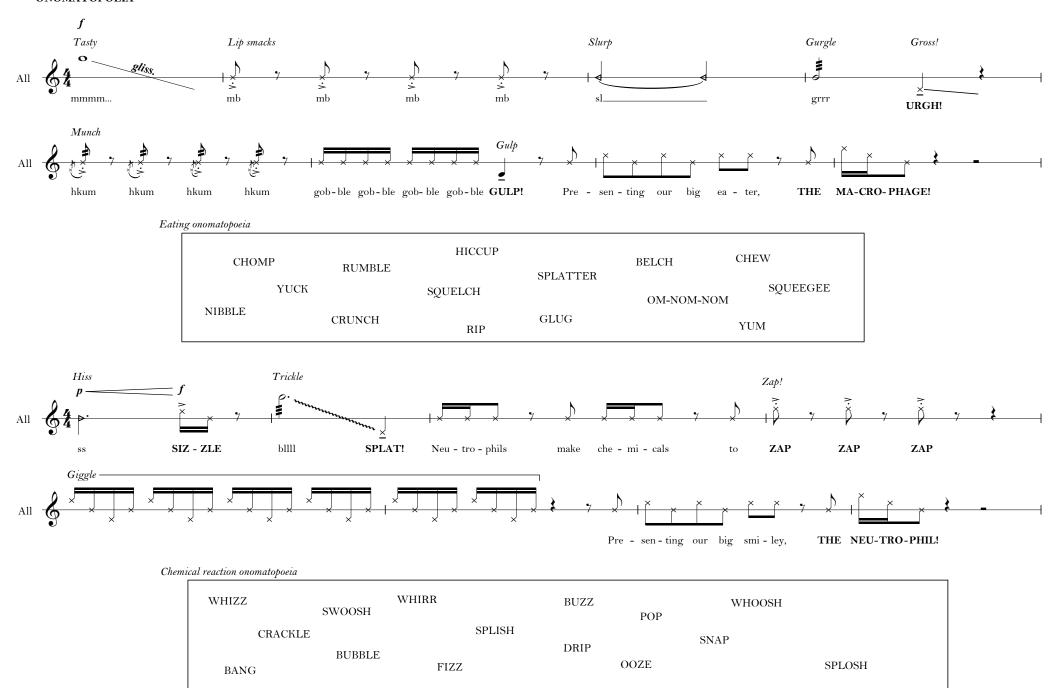




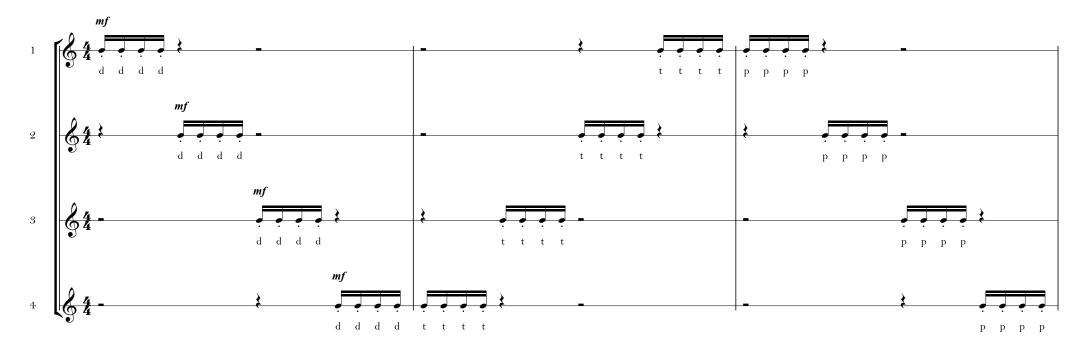
IMMUNOLOGY / RHEUMATOLOGY / INFLAMMATION / AUTOIMMUNE NASALS & VOWELS HUMMING/ SUSTAINED SOUNDS / CHANTING / OVERTONES (Immunology) x's 2 → nn — aw → ee (Rheumatology) x's 2 x's 2 ********** \longrightarrow mm \longrightarrow ah (Inflammation) x's 4 mf x's 2 x's 2 3 · ****** ihn fla may nn ihn fla may nn (Autoimmune) x's 4 x's 2 x's 2 x's 4 Aw toe toe toe ihm myoo na na

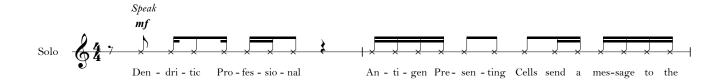


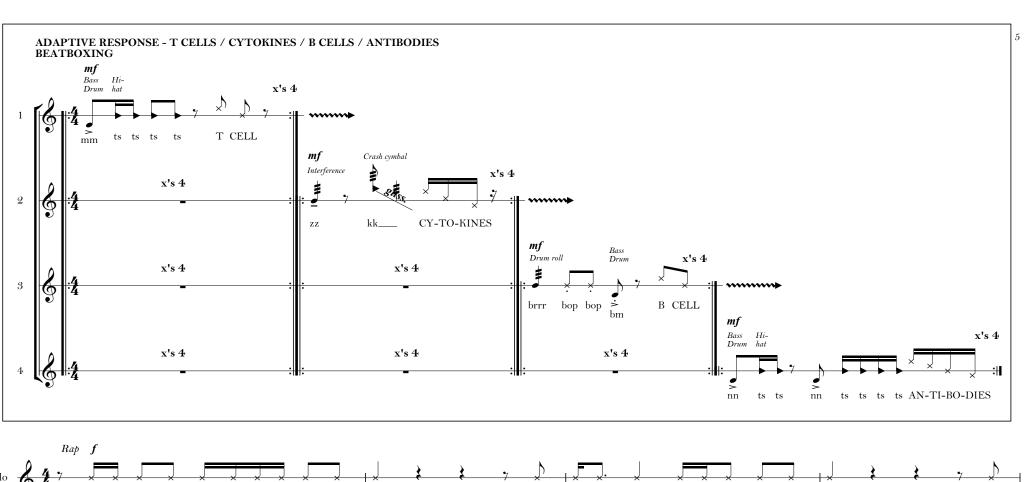
INNATE RESPONSE: MACROPHAGES / NEUTROPHILS / PHAGOCYTOSIS ONOMATOPOEIA

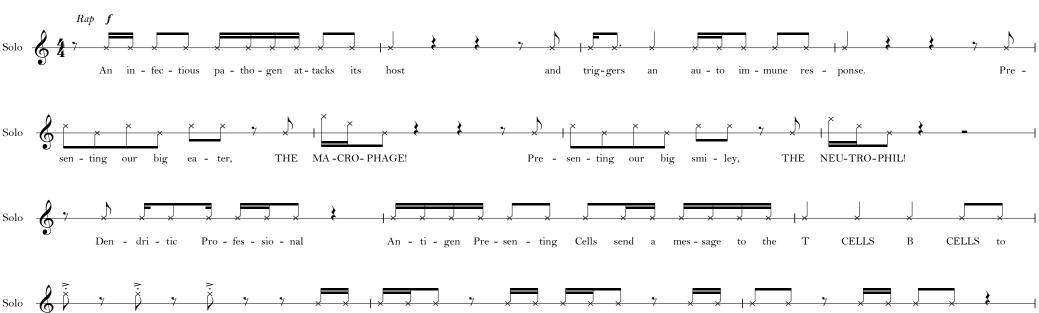


DENDRITIC PROFESSIONAL ANTIGEN PRESENTING CELLS PLOSIVES / STOP CONSONANTS









rheu - ma - to - lo - gy

in - flam - ma - tion

au - to im - mune.

ZAP

ZAP!

Im - mu - no - lo - gy

ZAP

CODA

