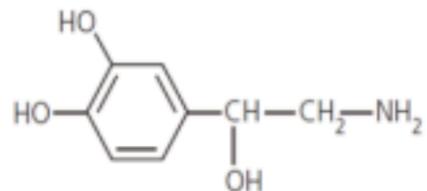


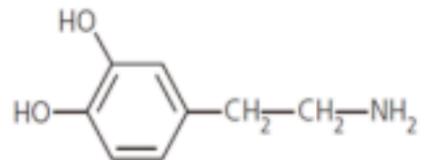
신경전달물질	구조
아세틸콜린	$\text{H}_3\text{C}-\overset{\text{O}}{\underset{ }{\text{C}}}-\text{O}-\text{CH}_2-\text{CH}_2-\underset{\text{CH}_3}{\underset{ }{\text{N}}}^+-\text{CH}_3$
아미노산 글루탐산	$\text{H}_2\text{N}-\underset{\text{COOH}}{\underset{ }{\text{CH}}}-\text{CH}_2-\text{CH}_2-\text{COOH}$
GABA(감마아미노 부티르산)	$\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{COOH}$
글리신	$\text{H}_2\text{N}-\text{CH}_2-\text{COOH}$
기체 일산화질소	$\text{N}=\text{O}$

생체아민

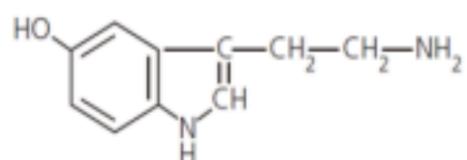
노르에피네프린



도파민



세로토닌



신경펩타이드(매우 다양한 종류가 존재하지만 두 종류만 소개됨)

물질 P

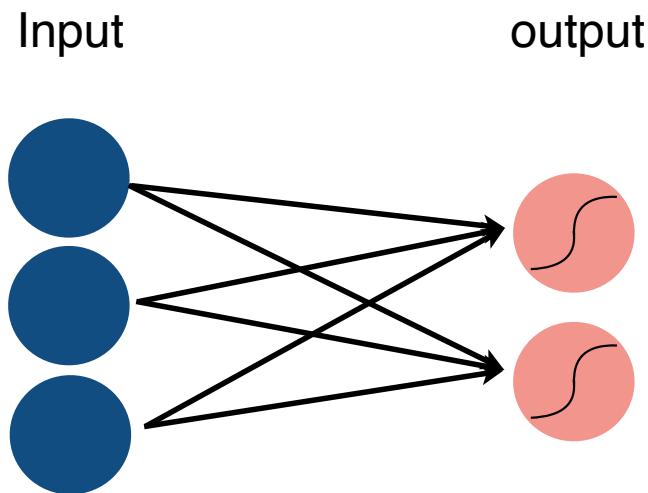
Arg—Pro—Lys—Pro—Gln—Gln—Phe—Phe—Gly—Leu—Met

Met-엔케팔린(엔돌핀)

Tyr—Gly—Gly—Phe—Met

〈신경전달물질 종류〉 출처: Campbell '생명과학'

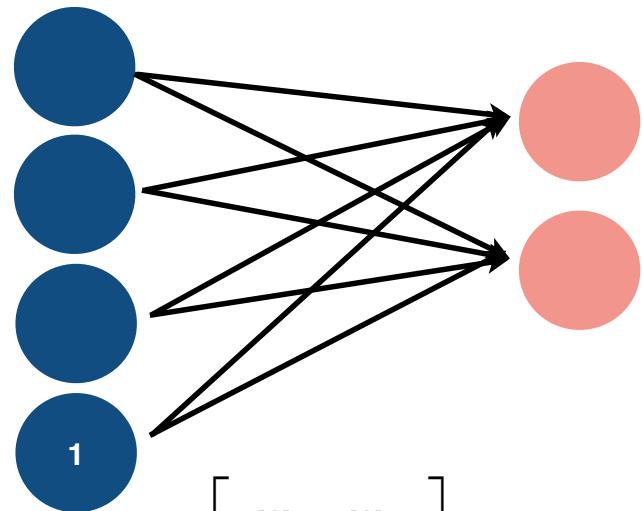
인공신경망



인공신경망

Input

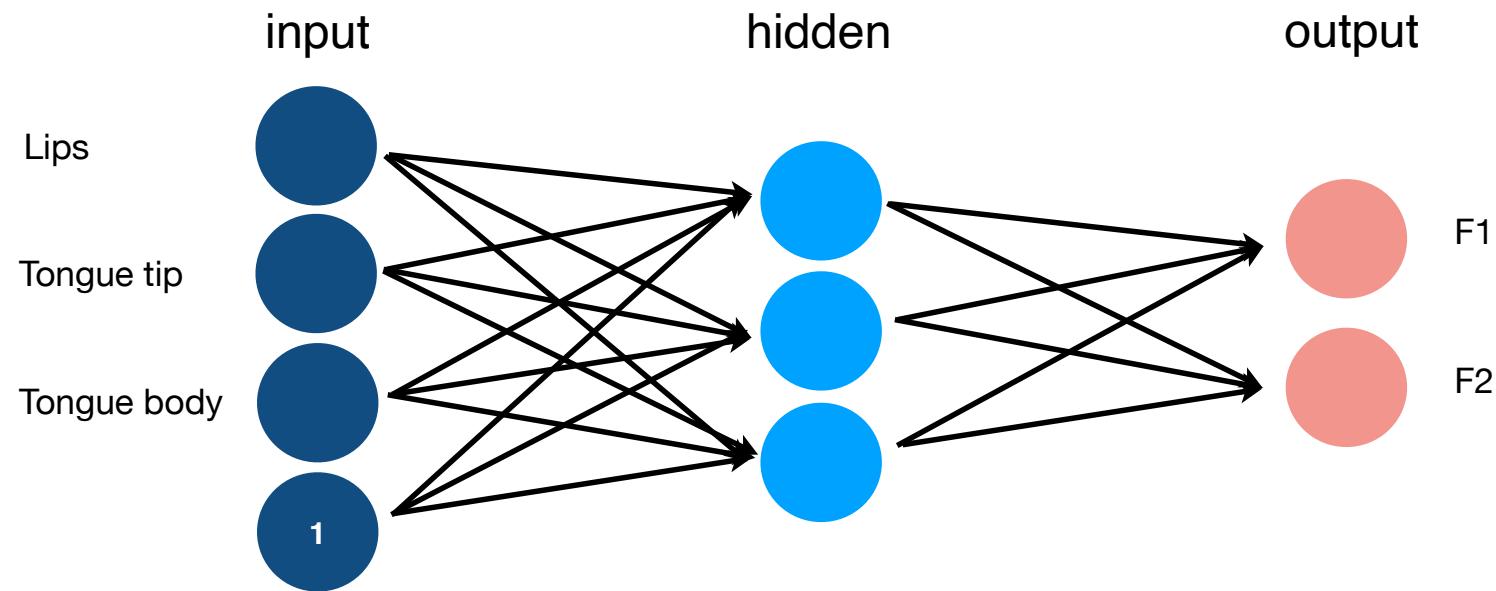
output



$$\begin{bmatrix} \theta_1 & \theta_2 & \theta_3 & 1 \end{bmatrix} \begin{bmatrix} w_1 & w_4 \\ w_2 & w_5 \\ w_3 & w_6 \\ b_1 & b_2 \end{bmatrix} = \begin{bmatrix} F_1 & F_2 \end{bmatrix}$$

W

Articulation → Acoustics



https://www.ksmcb.or.kr/file/bio_2016/lectures/cv14.pdf

<https://takentext.tistory.com/659>