

久場 博司

名古屋大学大学院医学系研究科 細胞生理学 教授

<略歴>

西暦 1997 年 九州大学卒

卒業後のキャリアパス

1997 年九州大学医学部卒業後，九州大学医学部附属病院脳神経外科，国立病院九州医療センター脳神経外科に勤務．2003 年京都大学大学院医学研究科博士課程（神経生物学，大森治紀教授）修了後，同助手，同講師，同准教授を経て，2011 年に名古屋大学大学院医学系研究科・教授就任．2009 年 9 月から 2010 年 7 月まで，米国オレゴン健康科学大学客員研究員を兼務．2010 年からは，さきがけ研究者を兼務，

<専門・研究対象>

神経生理学

<おもな著書、研究実績>

- 1.Okuda H, Yamada R, Kuba H, Ohmori H: Metabotropic glutamate receptors improves the accuracy of coincidence detection by presynaptic mechanisms in the nucleus lamirnaris of the chick. *J. Physiol. (Lond.)* 591:365-378 (2013).
- 2.Kuba H: Structural tuning and plasticity of axon initial segment in auditory neurons *J. Physiol. (Lond.)* 590:5571-5579 (2012).
- 3.Taruno A, Ohmori H, Kuba H: Inhibition of presynaptic Na(+)/K(+)-ATPase reduces readily releasable pool size at the avian end-bulb synapse. *Neurosci. Res.* 72, 117-128 (2012).
- 4.Grubb MS, Shu Y, Kuba H, Rasband MN, Wimmer VC, Bender KJ: Short- and long-term plasticity at the axon initial segment. *J. Neurosci.* 31, 16045-16055 (2011).
- 5.Kuba H: Plasticity at the axon initial segment. *Commun. Integr. Biol.* 3, 597-598 (2010).
- 6.Kuba H, Oichi Y, Ohmori H: Presynaptic activity regulates Na<sup>+</sup> channel distribution at the axon initial segment. *Nature* 465, 1075-1078 (2010).
- 7.Kuba H, Ohmori H: Roles of axonal sodium channels in precise auditory time coding at nucleus magnocellularis of the chick. *J. Physiol. (Lond.)* 587:87-100 (2009).
- 8.Nishino E, Yamada R, Kuba H, Hioki H, Furuta T, Kaneko T, Ohmori H: Sound-intensity dependent compensation for the small interaural time difference cue for sound source localization. *J. Neurosci.* 28, 7153-7164 (2008).

- 9.Kuba H: Cellular and molecular mechanisms of avian auditory coincidence detection. *Neurosci. Res.* 59, 370-376 (2007) .
- 10.Kuba H, Ishii TM, Ohmori H: Axonal site of spike initiation enhances auditory coincidence detection. *Nature* 444, 1069-1072 (2006).
- 11.Yamada R, Kuba H, Ishii TM, Ohmori H: Hyperpolarization-activated cyclic nucleotide-gated cation channels regulate auditory coincidence detection in nucleus laminaris of the chick. *J. Neurosci.* 25, 8867-8877 (2005).
- 12.Kuba H, Yamada R, Fukui I, Ohmori H: Tonotopic specialization of auditory coincidence detection in nucleus laminaris of the chick. *J. Neurosci.* 25, 1924-1934 (2005).
- 13.Kuba H, Yamada R, Ohmori H: Evaluation of the limiting acuity of coincidence detection in nucleus laminaris of the chicken. *J. Physiol. (Lond.)* 552, 611-620 (2003).
- 14.Kuba H, Koyano K, Ohmori H: Development of membrane conductance improves coincidence detection in the nucleus laminaris of the chick. *J. Physiol. (Lond.)* 540, 529-542 (2002).
- 15.Kuba H, Koyano K, Ohmori H: Synaptic depression improves coincidence detection in the nucleus laminaris in brainstem slices of the chick embryo. *Eur. J. Neurosci.* 15, 984-990 (2002).

<受賞歴>

- |         |               |
|---------|---------------|
| 2006年7月 | 日本神経科学学会奨励賞受賞 |
| 2008年3月 | 日本生理学会奨励賞受賞   |