脳 神 経 外 科 学 講 座

○主な研究内容

１　もやもや病の遺伝子解析
２　3D CTA や EPI を用いた functional MRI などの新しい画像診断システムの開発
３　グリオーマの免疫療法の研究
４　脊髄損傷の基礎研究
５　血管内手術の基礎的研究
６　神経幹細胞移植に関する研究
７　脊髄誘発電位の臨床応用
８　神経内視鏡を用いた低侵襲手術法の開発
９　覚醒下手術を用いた脳機能代償機構の研究
10　てんかんの病態・治療の研究
11　CT/MRI の fusion 画像を用いた手術支援システムの開発
12　頭蓋底手術に対する頭頸部微小解剖研究
13　手術訓練を目的とした頭蓋骨、脳、脳神経、硬膜模型の開発
14　Selective Laser Sintering を用いた術前シミュレーションのための疾患模型の開発
15　移植免疫に対する間葉系肝細胞の免疫原性の解析
16　腫瘍肝細胞に関する基礎研究
17　再発悪性神経膠腫に対する化学療法の研究
18　脳腫瘍に対する術中蛍光診断に関する研究
19　Tractography や fMRI を用いた覚醒下手術の検討
20　ステントを用いた脳動脈瘤治療の研究
21　頸動脈ステント留置術後の残存潰瘍に関する研究
22　抗血小板薬の効果に関する研究
23　脳梗塞におけるガングリオシドの神経再生への関与
24　もやもや病の画像診断に関する研究
25　脳血管障害手術の手術シミュレーションに関する研究
26　脳卒中の遠隔画像診断に関する研究
27　Bipolar forceps の付着に関する研究

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27　Bipolar forceps の付着に関する研究

○Pub Med 掲載論文（2017 年）

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〇その他論文（2014 年）

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脳 神 経 外 科 学 講 座

○主な研究内容

1　もやもや病の遺伝子解析
2　3D CTA や EPI を用いた functional MRI などの新しい画像診断システムの開発
3　グリオーマの免疫療法の研究
4　脊髄損傷の基礎研究
5　血管内手術の基礎的研究
6　神経幹細胞移植に関する研究
7　脊髄誘発電位の臨床応用
8　神経内視鏡を用いた低侵襲手術法の開発
9　覚醒下手術を用いた脳機能代償機構の研究
10　てんかんの病態・治療の研究
11　CT/MRI の fusion 画像を用いた手術支援システムの開発
12　頭蓋底手術に対する頭頸部微小解剖研究
13　手術訓練を目的とした頭蓋骨、脳、脳神経、硬膜模型の開発
14　Selective Laser Sintering を用いた術前シミュレーションのための疾患模型の開発
15　移植免疫に対する間葉系肝細胞の免疫原性の解析
16　腫瘍肝細胞に関する基礎研究
17　再発悪性神経膠腫に対する化学療法の研究
18　脳腫瘍に対する術中蛍光診断に関する研究
19　Tractography や fMRI を用いた覚醒下手術の検討
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21　頸動脈ステント留置術後の残存潰瘍に関する研究
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23　脳梗塞におけるガングリオシドの神経再生への関与
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25　脳血管障害手術の手術シミュレーションに関する研究
26　脳卒中の遠隔画像診断に関する研究
27　Bipolar forceps の付着に関する研究

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