

## GRECO's projects and achievements

Founding partners and associated research units allow to build the background of several European and world premieres with GRECO, as it is a federated research institution of excellence.

### Current events

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Machine Learning helping with children's autism diagnostic via Eye Tracking , (I.A., e-Santé)  
Mini-invasive robot- assisted surgery by the binding of neurological scoliosis to the pelvis  
« ALOHA », Monitoring of ambulatory patients (I.A., e-Health)  
« CASSPair », algebraic crypto-analysis applied to health data storage (Cybersecurity, e-Health)  
« Vert'Pom », PIA3 Project : Data-storing confidentiality, authentication of Smart Grids (Cybersecurity)  
« Smart Angel », PSPC PIA3 Project : decision-making support tools in resuscitation or outpatient monitoring (Cyber security)

### Achievements

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Medical interventions driven by GRECO are still brand-new. All of them were achieved with the help of robotic assisted procedures. This allowed to build a new form of patient care.

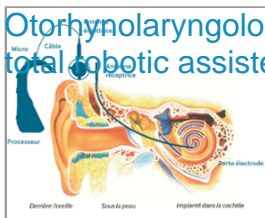
Recent achievements :

Cochlear implantation under total robotic assistance – worldwide premiere (Dr Nathalie KLOPP-DUTOTE, Pr Vladimir STRUNSKI, Pr Michel LEFRANC) / 2019  
Laser surgery integrated within real-time MRI scan for the treatment of Parkinson's disease tremors and related disorders (Pr Michel LEFRANC) / 2019  
Pediatric robotic assisted spine surgery in severe cases of scoliosis, using simulation room (Pr. Christine AMMIRATI, Pr François DEROUSSEN, Pr. Richard GOURON et Pr Michel LEFRANC) / 2018  
Use of radio frequencies in ablation of bone tumour, with robotic assistance (Dr Bruno BONNAIRE, Pr. Antoine GABRION et Pr Michel LEFRANC) / 2016  
Robotic assisted lombar discal hernia surgery (Pr Michel LEFRANC et Pr. Johann PELTIER) / 2015  
Ostheo synthesis (closed surgery) robotic guided spine screw setting (Dr Anthony FICHTEN, Pr Michel LEFRANC et Pr. Johann PELTIER) / 2014  
Robotic assisted medical care for spine diseases (Pr Michel LEFRANC)

[Projet e-mOove: le GRECO avance sur le diagnostic de la maladie de Parkinson](#)



[Otorhinolaryngology world premiere at Amiens University Hospital : cochlear implantation under total robotic assisted surgery](#)



[Emmanuel Macron lance le GRECO !](#)



Emmanuel Macron starts GRECO !



GRECO gains on establishing tomorrow's surgery



Le GRECO continue de préparer la chirurgie de demain



GRECO : première pose mondiale d'implants zygomatiques assistée par robot



Le GRECO se dévoile sur BFM Business

