

**Prof. Dr. med. Christof Reinhard Sohn**

## **CURRICULUM VITAE**

### Office:

Depart. Obstet. Gynecol.  
University of Heidelberg  
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D-69115 Heidelberg

### Personal Development

Place of work: Depart. Obstet. Gynecol.; University of Heidelberg, Germany  
Position: Professorship (C-4), Head of the Depart. of Obstetrics and Gynecology,  
Date of birth: 30.01.1961  
Place of birth: Pforzheim, Baden-Württemberg, Germany  
Education: 1967 - 1971 Primary School Wildbad  
1971 - 1977 High School Wildbad  
1977 - 1980 High School Neuenbürg, general qualification for university entrance

### Publications:

Books:	19
Contributions to books:	29
Original Articles:	165
Reviews:	10
Oral publications:	>400

### Education and Career

1980 - 1986	Study of Medicine at the University of Ulm, Certificate to practise and Graduation on the subject "Effect of Pregnancy on the vein system of the lower extremities – a prospective study" (Grading: cum laude)
1986 - 1987	Assistant doctor at the Depart. of Obstet. and Gynecol., General Hospital Albstadt (Prof. Dr. G. Geier)
1987 - 1989	Assistant lecturer at the Depart. of Obstet. and Gynecol., University of the RWTH Aachen (Prof. Dr. H. Jung)
1989 - 1990	Assistant lecturer at the Depart. of Angiology, University of Essen (Prof. Dr. G. Rudofsky)

1991 - 1997	Assistant lecturer at the Depart. of Obstet. and Gynecol., University of Heidelberg (Prof. Dr. Dr.h.c. G. Bastert)
January 1993	Specialist of Obstetrics and Gynecology
May 1993	Qualification as a Professor
May 1993	Senior physician at the Depart. Obstet. and Gynecol., University of Heidelberg
October 1993	Head of the Ultrasound unit for Prenatal diagnostics and Therapy at the Depart. of Obstet. and Gynecol., University of Heidelberg
1997	Board certificate (Specialist accreditation) in „Special Obstetrics and Perinatal Medicine“ and “Surgical Gynecology“
September 1997	Chair of Obstetrics and Gynecology (C-3 professorship), Head of the Obstetric Unit. at the Depart. of Obstetrics and Gynecology; University of Frankfurt/Main
May 2000	Chair of Obstetrics and Gynecology (C-4 professorship) , Director of the Section of Obstetrics, Prenatal Medicine and Gynecology, Medical High School Hannover
2002	Head of the Depart. of Obstetrics and Gynecology, Medical High School Hannover
Since November 2004	Head of the Depart. of Obstetrics and Gynecology at the University of Heidelberg
2007	Honorary Professorship University of Simferopol, Ukraine

### **Scientific Education**

Mai 1992	Scientific award of the Obstetric and Gynecologic Community (Mittelrheinische Gesellschaft für Gynäkologie und Geburtshilfe)
Mai 1992	Scientific award of the Obstetric and Gynecologic (Niederrheinisch-Westfälische Gesellschaft für Gynäkologie und Geburtshilfe)
Oktober 1992	Scientific award of the DEGUM-Community
27. Mai 1993	Qualification as a Professor of Obstetrics and Gynecology, Subject: “Development of 3-d Ultrasound technology”, University of Heidelberg
Juli 1993	Venia legendi
1993	Member of the Scientific Committee „Imaging / Resolution“
1995	„Award of Master“ of the Community of “ Audiovisual Communication” and of the Mediareport Publishing - GmbH for the Documentary – Film „ Menschliches Leben entsteht“, Author Ch. Sohn
	Member of the Academic Foundation for Medical Education, Switzerland
1996	Member of the Editorial Board of the journal „Surgical Endoscopy“
1997	Member of the Editorial Board of the journal „Gynäkologische Praxis“
1999	Scientific award of the German Professional Association of Gynecologists
2000	Award of Innovation of the German Professional Association of Gynecologists
2001	Member of the Editorial Board of the journal „ Zeitschrift Geburtshilfe und Frauenheilkunde“

### Teaching activity

- Continuous teaching activity as lecturer and professor of Obstetrics and Gynecology at the University of Heidelberg, Frankfurt and Hannover
- Organisation and execution of training courses for registered doctors with their own practices
- Consultant of the Community of Lecturing Qualification at the University of Frankfurt/Main
- Member of the Expert Community of the Institute for Medical and Pharmaceutical Examination Requirements

### Research projects (detailed listed in laboratory activities)

- **Tumordiagnosics**
  - ATM-Variations as a cause of breast cancer
- **Effects of estrogens on breast cancer cellines**
- **Bilateral Mammacarcinoma**
  - Genetics of bilateral Mammacarcinomas
- **Disturbances of repairmechanisms of family associated breast cancer**
- **Prevention of preterm delivery**
- **Intrauterine Lasertherapy in case of feto-fetal-transfusionsyndrome**
- **Diagnostics und therapy of intrauterine growth retardation**
- **Diagnostics und management of fetal malformations**
- **Invasive prenatal diagnostics**
- **Preterm intrauterine acitvation:**
  - > Expression of proinflammatory mediators and their receptors in fetal tissues in case of infection and non-infection induced preterm labor
  - > Establishment of serum markers (soluble cell adhesion molecules ) for prenatal diagnostics of chorioamnionitis
  - > Involvement of the fetal immune system in term and preterm labor induction
- **Importance of the fetal and maternal immune system for the pathogenesis of pregnancy induced hypertensive diseases (Preeclampsia, HELLP – Syndrome):**
  - Involvement of the non-adaptive fetal immune system (Monocytes ) in the pathogenesis of preeclampsia and HELLP – Syndrome
  - Involvement of the adaptive maternal immune systems (T-Lymphocyts) in the pathogenesis of preeclampsia and HELLP – Syndrome
  - Examination of the allo-reactivity of fetal and maternal T-cells in patients with pregnancy induced hypertensive diseases and patients with uncontrollable intrauterine activation; (Mixed lymphocyte culture ( MLC) reactions between maternal responder cells T-cells and allogeneic stimulator cells))
  - Determination of anti-HLA – antibodies and soluble HLA –molecules in the circulation of patients with pregnancy induced hypertensive diseases

- Establishment of serummarkers for prenatal diagnosis of preeclampsia in patients with pathological Doppler findings (notching of the uterine arteries) at 20. -25. weeks of gestation
- Expression of angiogenic factors ( UpA, PAI – 1,2, TGF –  $\beta$ , bFGF und VEGF) in the placenta of patients with preeclampsia, intrauterine growth retardation and preterm placental abruption

- **Diagnosis and Therapy of Gestational Diabetes**

**Memberships in Scientific Communities and Editorial Boards of Scientific Medical Journals**

Member of the German Association of Ultrasound in Medicine (DEGUM)

Member of the German Association of Obstetrics and Gynecology (DGGG)

Member of the German Association of Perinatal Medicine

Member of the International Society of Ultrasound in Obstetrics and Gynecology (ISUOG)

Member of the Academic Foundation for Medical Education, Switzerland

**Organisation of International Scientific Events**

1993 International Congress Mammasonography

**Organisation of Local Scientific Events**

1992 1. Heidelberger Doppler Congress

1993 Symposium on 3D-Sonography

1994 2. Heidelberger Doppler Congress

1995 Symposium on Ultrasound in Oncology

1996 3. Heidelberger Doppler Congress

1998 Frankfurter Doppler Congress

1999 Obstetrical Congress Frankfurt/Main

2001 Hannoverscher Doppler Congress

2002 Obstetrics 2002 – auf dem Weg ins neue Jahrhundert, Hannover

2003 Developments in Obstetrics and Gynecology , Hannover

Altogether 11 one week training courses in Obstetrics and Gynecology at St.. Moritz (Engadiner Fortbildungswochen für Geburtshilfe und Gynäkologie), Switzerland, 1993 - 2003

Continuous KBV-authorized training courses in dopplersonographic ultrasound examinations in Obstetrics and Gynecology, as well as Mammasonography: 10 per year since 1994

**Stays abroad:**

- 1.) 1993 + 1994 Frau Prof. U Hamper, John Hopkins – University Baltimore
- 2.) 1995 Dr. Steve Parker, Denver
- 3.) 1996 Prof. Mohan Airon, Chicago
- 4.) Engeneering Laboratories Acoustic Imaging Phoenix 1993 / 1994 / 1995 / 1996 /  
1997 / 1998 / 1999
- 5.) 1995 University of Peking
- 6.) 1996 Prof. N. Koremblit, Buenos Aires
- 7.) 1997 University Haifa and Tel Aviv

**Participation on EU – Projects:**

3D – Sonography, under the overall control of the University of Cambridge

**DFG-Project : „Characterisation of ATM-Mutations in patients with Breast Cancer****Two projects, financed with internal supportive measure of HiLF, Medical High School****Hannover****Own Developments:**

1. 3D Ultrasoundtechnology ( see Qualification as Professor )
2. 2000 Development of an Ultrasound simulator
3. Telemedical project in Cooperation with Telecom
4. Development of an Internet Page “eumom.com” in Cooperation with Professor Dr . med. Holzgreve, Basel
5. Development of Meniscus-Sonography (1985)

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